



Catalyst 6500 Series Switch System Message Guide

Software Release 8.7

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CONTENTS

Preface ix

Audience ix

Organization ix

Related Documentation ix

Conventions x

Obtaining Documentation and Submitting a Service Request x

CHAPTER 1

Message Format 1-1

System Message Structure 1-1

Facility Code 1-2

Severity Level 1-3

Mnemonic Code 1-3

Description Field 1-4

System Message Log 1-4

Default System Message Log Configuration 1-4

Configuring System Message Log Options 1-5

CHAPTER 2

Messages and Recovery Procedures 2-1

New System Messages 2-1

ACL Messages 2-2

ACL-2 2-2

ACL-3 2-3

ACL-4 2-9

ACL-5 2-9

ACL-6 2-12

ACL-7 2-13

CallHome 2-14

CALLHOME-3 2-14

CALLHOME-4 2-15

CALLHOME-7 2-15

CDP Messages 2-16

CDP-2 2-16

CDP-3 2-16

CDP-4 2-16

CDP-7 2-17

COPS Messages 2-17

 COPS-3 2-17

 COPS-5 2-18

 COPS-6 2-18

 COPS-7 2-19

DHCP Snooping 2-20

 DHCP Snooping-2 2-20

 DHCP Snooping-3 2-20

 DHCP Snooping-4 2-21

 DHCP Snooping-5 2-22

 DHCP Snooping-6 2-24

DOM Messages 2-24

 DOM-3 2-24

DRIP Messages 2-26

 DRIP-3 2-26

 DRIP-4 2-27

 DRIP-5 2-28

DTP Messages 2-28

 DTP-1 2-29

 DTP-3 2-29

 DTP-4 2-30

 DTP-5 2-30

 DTP-7 2-31

DVLAN Messages 2-32

 DVLAN-1 2-32

 DVLAN-2 2-34

 DVLAN-3 2-34

 DVLAN-4 2-36

 DVLAN-6 2-36

 DVLAN-7 2-36

EARL Messages 2-37

 EARL-2 2-37

 EARL-3 2-38

 EARL-4 2-39

 EARL-5 2-40

 EARL-6 2-41

 EARL-7 2-41

ELMI Messages 2-42

ELMI-3	2-42
EOAM Messages	2-44
EOAM-4	2-44
EOAM-5	2-44
EOU Messages	2-45
EOU-1	2-45
EOU-3	2-45
EOU-5	2-46
EOU-6	2-47
ETHC Messages	2-50
ETHC-3	2-50
ETHC-5	2-50
ETHC-7	2-51
ETHERCFM Messages	2-53
ETHERCFM-3	2-53
ETHERCFM-5	2-53
FILESYS Messages	2-54
FILESYS-1	2-55
GL2PT Messages	2-56
GL2PT-3	2-56
GL2PT-5	2-57
GL2PT-6	2-58
GVRP Messages	2-58
GVRP-0	2-58
GVRP-2	2-59
GVRP-3	2-59
IP Messages	2-61
IP-3	2-61
IP-4	2-62
IP-6	2-62
KERNEL Messages	2-63
KERNEL-0	2-63
KERNEL-1	2-63
KERNEL-4	2-64
KERNEL-5	2-64
LD Messages	2-64
LD-3	2-65
LD-5	2-65

MACAUTH SECURITY Messages	2-65
QoS ACL	2-65
SECURITY ACL	2-67
MCAST Messages	2-69
MCAST-2	2-69
MCAST-4	2-71
MCAST-5	2-73
MCAST-6	2-75
MGMT Messages	2-78
MGMT-1	2-78
MGMT-2	2-78
MGMT-3	2-78
MGMT-4	2-79
MGMT-5	2-79
MGMT-6	2-86
MGMT-7	2-87
MLS Messages	2-87
MLS-1	2-87
MLS-2	2-90
MLS-3	2-91
MLS-4	2-92
MLS-5	2-93
MLS-6	2-96
MLS-7	2-96
MVRP Messages	2-96
MVRP-0	2-97
MVRP-1	2-97
MVRP-3	2-97
MVRP-4	2-99
PRIVATEVLAN Messages	2-100
PRIVATEVLAN-3	2-100
PRIVATEVLAN-5	2-103
PRIVATEVLAN-7	2-103
PROTFILT Messages	2-104
PROTFILT-5	2-104
PRUNING Messages for VTP	2-104
PRUNING-2	2-104
PRUNING-3	2-106
PRUNING-4	2-107

PRUNING-5	2-109
PRUNING-6	2-111
QoS Messages	2-111
QOS-3	2-111
QOS-4	2-118
QOS-5	2-119
RADIUS Messages	2-120
RADIUS-2	2-121
RADIUS-3	2-121
RADIUS-4	2-122
RADIUS-5	2-122
RSVP Messages	2-122
RSVP-3	2-123
RSVP-4	2-123
RSVP-6	2-123
SECURITY Messages	2-124
SECURITY-1	2-124
SECURITY-2	2-128
SECURITY-3	2-128
SECURITY-4	2-134
SECURITY-5	2-136
SECURITY-6	2-140
SECURITY-7	2-141
SNMP Messages	2-141
SNMP-2	2-142
SNMP-3	2-142
SNMP-5	2-142
SNMP-6	2-154
SNMP RMON Messages	2-155
SNMP-5	2-155
SPANTREE Messages	2-157
SPANTREE-2	2-157
SPANTREE-3	2-162
SPANTREE-4	2-162
SPANTREE-5	2-163
SPANTREE-6	2-165
SPANTREE-7	2-167
SYS Messages	2-170
SYS-0	2-170

SYS-1 2-176
 SYS-2 2-182
 SYS-3 2-193
 SYS-4 2-234
 SYS-5 2-244
 SYS-6 2-263
 SYS-7 2-270

TAC Messages 2-270
 TAC-2 2-270
 TAC-7 2-271

TCP Messages 2-273
 TCP-2 2-273
 TCP-4 2-273

UDLD Protocol Messages 2-274
 UDLD-3 2-274
 UDLD-4 2-275
 UDLD-7 2-276

VMPS Messages 2-276
 VMPS-2 2-276
 VMPS-3 2-278
 VMPS-7 2-280

VTP Messages 2-280
 VTP-1 2-281
 VTP-2 2-281
 VTP-4 2-282
 VTP-5 2-284
 VTP-6 2-284

WEBAUTH Messages 2-285
 WEBAUTH-3 2-285
 WEBAUTH-4 2-286
 WEBAUTH-5 2-287
 WEBAUTH-6 2-287



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Preface

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

Audience

This guide is designed for the installer and user with a working knowledge of the Catalyst 6500 series switch system software. Users of this guide might also include network administrators and other individuals responsible for setting up and maintaining the switch.

Organization

This guide is organized as follows:

Chapter	Title	Description
Chapter 1, “	Message Format	Describes how to read a system or error message.
Chapter 2, “	Messages and Recovery Procedures	Contains the system message descriptions and recovery procedures.

Related Documentation

This section lists relevant product documentation:

- *Catalyst 6500 Series Switch Software Configuration Guide*
- *Catalyst 6500 Series Switch Command Reference*
- *Catalyst 6500 Series Switch Quick Software Configuration*

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Conventions

This document uses the following conventions:

Convention	Description
boldface font	Commands, command options, and keywords are in boldface .
<i>italic font</i>	Arguments for which you supply values are in <i>italics</i> .
[]	Elements in square brackets are optional.
{ x y z }	Alternative keywords are grouped in braces and separated by vertical bars.
[x y z]	Optional alternative keywords are grouped in brackets and separated by vertical bars.
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.
screen font	Terminal sessions and information the system displays are in <code>screen font</code> .
boldface screen font	Information you must enter is in boldface screen font .
<i>italic screen font</i>	Arguments for which you supply values are in <i>italic screen font</i> .
^	The symbol ^ represents the key labeled Control—for example, the key combination ^D in a screen display means hold down the Control key while you press the D key.
< >	Nonprinting characters, such as passwords are in angle brackets.

Notes use the following conventions:

**Note**

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

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CHAPTER 1

Message Format

This chapter describes how switch messages are formatted and how you can enable the System Message Log feature to send messages to the switch internal buffer and system console for display (and optionally, to a logging server on another system). Not all messages indicate problems; some messages are only informational, while others help diagnose problems with communications lines, internal hardware, or the system software.

Messages are listed by the facility (hardware device, protocol, or a module or system software) that produces the messages. Within each facility, messages are listed by the severity level, from highest to lowest (1-7). Each message is followed by an explanation and a recommended action. Messages appear only when the system remains operational.

The following is a sample system message:

```
3/17/2004,18:31:15:SYS-5-MOD_INSERT:Module 5 has been inserted
```

where

3/17/2004,18:31:15 is the date and time of the error (this appears if set for system log messaging).

SYS is the facility type.

5 is the severity level, indicating that it is a normal but significant condition.

MOD_INSERT is the mnemonic code that uniquely identifies the message.

Module 5 has been inserted is the message text.

This chapter contains the following sections:

- [System Message Structure, page 1-1](#)
- [System Message Log, page 1-4](#)

System Message Structure

The system messages include the following information:

- Facility code
- Severity level
- Mnemonic code
- Description field

For example, system messages are structured as follows:

```
facility-severity-MNEMONIC:description
```

Messages from the System Message Log are structured the same but include this date/time stamp at the beginning of the message:

```
mm/dd/yyyy:hh/mm/ss:facility-severity-MNEMONIC:description
```

where

```
mm/dd/yyyy:hh/mm/ss
```

is the date and time of the error or event.

Facility Code

The facility code consists of two or more uppercase letters that indicate the facility to which the message refers. A facility can be a hardware device, a protocol, or a module within the system software. [Table 1-1](#) lists the facility codes.

Table 1-1 Facility Codes

Code	Facility
ACL	Access Control Lists
CDP	Cisco Discovery Protocol
CALLHOME	CallHome
COPS	Common Open Policy Service
DHCPSNOOPING	Dynamic Host Configuration Protocol snooping
DRIP	Dual Ring Protocol
DTP	Dynamic Trunking Protocol
DVLAN	Dynamic VLAN
EARL	Enhanced Address Recognition Logic
EOAM	Ethernet Operation, Administration, and Maintenance
EOU	EAP Over UDP
ETHC	Ethernet Channel
ETHERCFM	Ethernet Connectivity Fault Management
ELMI	Ethernet Local Management Interface
FILESYS	Flash File System
GL2PT	Generic Layer 2 Protocol Tunneling
GVRP	GARP VLAN Registration Protocol
IP	Internet Protocol
KERNEL	Kernel
LD	Local Director
MCAST	Multicast
MGMT	Management
MLS	Multilayer Switching
MVRP	Multiple VLAN Registration Protocol

Table 1-1 Facility Codes (continued)

Code	Facility
PRIVATEVLAN	Private VLAN
PROTFILT	Protocol Filtering
PRUNING	VLAN Trunking Protocol Pruning
QOS	Quality of Service
RADIUS	Remote Authentication Dial-In User Service
RSVP	Resource reSerVation Protocol
SECURITY	Port Security
SNMP	Simple Network Management Protocol
SNMP RMON	Simple Network Management Protocol Remote Monitoring
SPANTREE	Spanning Tree Protocol
SYS	System
TAC	Terminal Access Controller Access Control System Plus
TCP	Transmission Control Protocol
UDLD	UniDirectional Link Detection Protocol
VMPS	VLAN Membership Policy Server
VTP	VLAN Trunking Protocol

Severity Level

The severity level is a single digit 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 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 Code

The MNEMONIC code uniquely identifies the error message. All mnemonics are all uppercase character strings.

Description Field

The description field is a text string that describes the condition. The text string may contain detailed information about the event, including terminal port numbers, network addresses, or addresses that correspond to locations in the system memory address space. Because these variable fields can change from message to message, they are represented by short strings in square brackets ([]). A decimal number, for example, is represented as [dec]. [Table 1-3](#) describes how the variable fields are represented in the messages.

Table 1-3 Representation of Variable Fields

Representation	Type of Information
[dec]	Decimal
[chars]	Character string
[hex]	Hexadecimal integer

System Message Log

The System Message Log (syslog) software can save system messages in a log file or direct the messages to other devices. The system message logging software has these features:

- Provides you with logging information for monitoring and troubleshooting
- Allows you to select the types of logging information captured
- Allows you to select the destination of captured logging information

By default the switch logs normal but significant system messages to its internal buffer and sends these messages to the system console. You can specify which system messages should be saved based on the type of facility and the severity level. Messages can be time-stamped to enhance real-time debugging and management.

You can access logged system messages using the switch CLI or by saving them to a properly configured syslog server. The switch software saves syslog messages in an internal buffer. You can also save messages on UNIX servers that are configured properly. The syslog software reads the messages from the buffer and sends them to the specified destination.

With syslog, you can access system messages by logging in to the console through Telnet, which allows you to monitor system messages remotely from any workstation that supports the Telnet protocol.

Default System Message Log Configuration

The switches ship with the default configuration shown in [Table 1-4](#).

Table 1-4 Default System Message Log Configuration

Configuration Parameters	Default Setting
System message logging to the console	Enabled
System message logging to Telnet sessions	Enabled
Logging server	Disabled

Table 1-4 Default System Message Log Configuration (continued)

Configuration Parameters	Default Setting
Syslog server IP address	None configured
Server facility	LOCAL7
Server severity	Warnings (4)
Logging buffer size	500
Logging history size	1
Timestamp option	Disabled
Facility/severity level for system messages	sys/5 dtp/5 pagp/5 mgmt/5 mls/5 cdp/4 udld/4 ld/3 all other facilities/2

When you first log on to the switch console, enter the **show logging** command to display the default configuration.

Configuring System Message Log Options

This section describes how to configure the options for the System Message Log.

Configuring System Message Logging

To change the default system message logging facility and severity levels, perform one of these tasks in privileged mode:

	Task	Command
Step 1	Set the default facility and severity level for system messages.	set logging level <i>facility severity</i> [default]
Step 2	Disable system message logging to the console.	set logging console disable

This example shows how to change the default system message logging facility and severity levels for the Cisco Discovery Protocol (CDP) to severity level 3:

```
Console> (enable) set logging level cdp 3
System logging facility <cdp> for this session set to severity 3(errors)
Console> (enable)
```



Note

To receive syslog messages for a message facility, the server severity level must be set equal to or greater than the default severity level set for the message facility.

This example shows how to disable system message logging to the console:

```
Console> (enable) set logging console disable
System logging messages will not be sent to the console.
Console> (enable)
```

Configuring the syslog Daemon on UNIX syslog Servers

Before you can send system log messages to a UNIX syslog server, you must configure the syslog daemon on the UNIX server.

To configure the syslog daemon, log in as root and perform these steps:

	Task	Command
Step 1	Add a line in the file <code>/etc/syslog.conf</code> . ¹	user.debug /var/log/myfile.log²
Step 2	Create the log file by entering these commands at the UNIX shell prompt.	\$ touch /var/log/myfile.log \$ chmod 666 /var/log/myfile.log
Step 3	Make sure the syslog daemon reads the new changes by entering this command.	\$ kill -HUP `cat /etc/syslog.pid

1. The switch sends messages according to specified facility types and severity levels. The **user** keyword specifies the UNIX logging facility. The messages from the switch are generated by user processes. The **debug** keyword specifies the severity level of the condition being logged. You can set UNIX systems to receive all messages from the switch.
2. There must be five tab characters between **user.debug** and `/var/log/myfile.log`. Refer to entries in the `/etc/syslog.conf` file for further examples.

Configuring syslog Servers

Before you can send system log messages to a UNIX syslog server, you must configure the syslog daemon on the UNIX server, as described in the section “[Configuring the syslog Daemon on UNIX syslog Servers](#)” section on page 1-6. To configure the switch to log messages to a syslog server, perform this task in privileged mode:

	Task	Command
Step 1	Add a syslog server to the configuration. You can configure a maximum of three syslog servers at a time.	set logging server <i>ip_addr</i>
Step 2	Enable system message logging to configured syslog servers.	set logging server enable
Step 3	Set the facility and severity level for syslog server messages.	set logging server facility <i>server_facility_parameter</i> set logging server severity <i>server_severity_level</i>

This example shows how to add a new syslog server with an IP address of 171.69.192.205 to the system logging server table:

```
Console> (enable) set logging server 171.69.192.205
171.69.192.205 added to the System logging server table.
Console> (enable)
```

This example shows how to enable system message logging to a configured syslog server:

```
Console> (enable) set logging server enable
System logging messages will be sent to the configured syslog servers.
Console> (enable)
```

This example shows how to set the syslog server facility to local0:

```
Console> (enable) set logging server facility local0
System logging server facility set to <local0>
Console> (enable)
```

This example shows how to set the syslog server severity level to 4:

```
Console> (enable) set logging server severity 4
System logging server severity set to <4>
Console> (enable)
```

To remove a syslog server from the configuration, perform this task in privileged mode:

Task	Command
Delete a syslog server from the configuration.	clear logging server <i>ip_addr</i>

This example shows how to delete the syslog server 171.69.192.207 from the configuration:

```
Console> (enable) clear logging server 171.69.192.207
System log server 171.69.192.207 removed from system log server table.
Console> (enable)
```

To disable logging to the syslog server, perform this task in privileged mode:

Task	Command
Disable system message logging to configured syslog servers.	set logging server disable

This example shows how to disable system message logging to a configured syslog server:

```
Console> (enable) set logging server disable
System logging messages will not be sent to the configured syslog servers.
Console> (enable)
```

Changing the Log Buffer Size

To limit the number of messages buffered, perform this task in privileged mode:

Task	Command
Change the buffer to limit the number of messages stored.	set logging buffer <i>buffer_size</i>

This example shows how to limit to 200 the number of messages stored in the buffer:

```
Console> (enable) set logging buffer 200
System logging buffer size set to <200>
Console> (enable)
```

Changing the Logging Timestamp

To enable or disable the system logging messages timestamp, perform this task in privileged mode:

Task	Command
Enable or disable the timestamp display on system logging messages.	set logging timestamp {enable disable}

This example shows how to enable the timestamp display on system logging messages:

```
Console> (enable) set logging timestamp enable
System logging messages timestamp will be enabled.
Console> (enable)
```

Configuring Telnet Login Sessions

By default, system messages are sent to Telnet sessions based on the default facility and severity values.

To configure the logging settings for Telnet sessions, perform one of these tasks in privileged mode:

	Task	Command
Step 1	Change the facility and severity values for Telnet login sessions.	set logging level <i>facility severity</i>
Step 2	Disable system message logging to the current Telnet login session.	set logging session disable
Step 3	Disable system message logging to the console.	set logging console disable
Step 4	Reenable system message logging to the current Telnet login session.	set logging session enable
Step 5	Reenable system message logging to the console.	set logging console enable

This example shows how to change the facility and severity values for Telnet login sessions:

```
Console> (enable) set logging level cdp 3
System logging facility <cdp> for this session set to severity 3(errors)
Console> (enable)
```

This example shows how to disable system message logging to the current Telnet session:

```
Console> (enable) set logging session disable
System logging messages will not be sent to the current login session.
Console> (enable)
```

This example shows how to disable system message logging to the console session:

```
Console> (enable) set logging console disable
System logging messages will not be sent to the console.
Console> (enable)
```

This example shows how to reenble system message logging to the current Telnet session:

```
Console> (enable) set logging session enable
System logging messages will be sent to the current login session.
Console> (enable)
```

This example shows how to reenble system message logging to the console session:

```
Console> (enable) set logging console enable
System logging messages will be sent to the console.
Console> (enable)
```

Displaying the System Logging Configuration

To display the current configuration for system messages, perform this task in privileged mode:

Task	Command
Display the current system message log configuration.	show logging

This example shows the results of a **show logging** command:

```
Console> show logging

Logging buffer size:          500
      timestamp option:      enabled
Logging history size:         1
Logging console:              enabled
Logging server:               disabled
      server facility:       LOCAL7
      server severity:       warnings(4)
Current Logging Session:      enabled
```

Facility	Default Severity	Current Session Severity
-----	-----	-----
acl	5	5
cdp	4	4
cops	3	3
dtp	5	5
earl	2	2
fileSYS	2	2
gvrp	2	2
icc	2	2
ip	2	2
ipc	2	2
kernel	2	2
ld	3	3
mcast	2	2
mgmt	5	5
mls	5	5
pagp	5	5
protfilt	2	2
pruning	2	2
privatevlan	3	3
qos	3	3

```

radius                2                2
rsvp                  3                3
security              2                2
snmp                  2                2
spantree              2                2
sys                   5                5
tac                   2                2
tcp                   2                2
telnet                2                2
tftp                  2                2
udld                  4                4
vmps                  2                2
vtp                   2                2

0 (emergencies)      1 (alerts)        2 (critical)
3 (errors)           4 (warnings)      5 (notifications)
6 (information)      7 (debugging)

```

Console>

To verify the system message log configuration, enter the **show logging** command. If you are verifying the system message log configuration for the console and the syslog server is disabled, the first five lines of output look as follows:

```

Console> (enable) show logging
Logging buffer size:      500
      timestamp:          enabled
Logging history size:     1
Logging console:         enabled
Logging server:           disabled

```

If you are verifying the system message log configuration for a Telnet login session, an additional line showing the current logging session is displayed, as follows:

```

Console> (enable) show logging
Logging buffer size:      500
      timestamp:          enabled
Logging history size:     1
Logging console:         enabled
Logging server:           disabled
Current Logging Session:  enabled

```

Displaying System Messages

To display the first *N* system messages in the internal buffer of the switch, perform this task in privileged mode:

Task	Command
Display the first <i>N</i> messages in the buffer.	show logging buffer <i>N</i>

This example shows how to display the first five messages from the internal buffer:

```

Console> (enable) show logging buffer 5
%PRUNING-4-NOTRUNK:trunk 100 not found(domain Lab_Network)
%PRUNING-4-NOTRUNK:trunk 100 not found(domain Lab_Network)
%MLS-5-ROUTERDEL:Route Processor 172.20.52.6 deleted - router excluded from include list
%SYS-5-RTE_DEFGATEFROM:Default Gateway switching from 172.20.52.121

```

```
%SYS-5-RTE_DEFGATETO:Default Gateway switching to 172.20.52.125
Console> (enable)
```

To display the last *N* system messages in the internal buffer of the switch, perform this task in privileged mode:

Task	Command
Display the last <i>N</i> messages in the buffer.	show logging buffer [-] [<i>N</i>]

This example shows how to display the last five messages from the internal buffer:

```
Console> (enable) show logging buffer -5
%CDP-4-DUPLEXMISMATCH:Full/half duplex mismatch detected on port 10/1
%DTP-5-TRUNKPORTON:Port 10/1 has become dot1q trunk
%PAGP-5-PORTTOSTP:Port 10/1 joined bridge port 10/1
%SPANTREE-2-RX_1QPVIDERR: Rcvd pvid_inc BPDU on 1Q port 10/1 vlan 1.
%SPANTREE-2-TX_BLKPORTPVID: Block 10/1 on xmting vlan 522 for inc peer vlan.
Console> (enable)
```




CHAPTER 2

Messages and Recovery Procedures

This chapter lists the system messages by facility. Within each facility, the messages are listed by severity levels 0 to 7, with 0 as the highest severity level and 7 as the lowest severity level. Each message is followed by an explanation and a recommended action.



Note

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

New System Messages

The following system messages are new in Catalyst software release 8.7.3:

- [ETHERCFM Messages, page 2-53](#)
 - ETHERCFM-5-SERVER_MEP_AIS_EVT_ENTER
 - ETHERCFM-5-SERVER_MEP_AIS_EVT_EXIT
 - ETHERCFM-5-LOCAL_MEP_AIS_EVT_ENTER
 - ETHERCFM-5-LOCAL_MEP_AIS_EVT_EXIT

ACL Messages

This section contains the Access Control Lists (ACL) messages.

ACL-2

Error Message ACL-2-ARPINSPECTCOPYFAIL: Could not copy packet, out of mbufs

Explanation This message indicates that the system is out of memory buffers.

Recommended Action This failure might be transient. If it occurs repeatedly, contact your technical support representative.

Error Message ACL-2-ARPINSPECTMEMFAIL: Could not allocate memory

Explanation This message indicates that the system is low on memory.

Recommended Action Restart the system. If the problem persists, contact your technical support representative.

Error Message ACL-2-ARPINSPECTTASKFAIL: Task exits: [dec]

Explanation This message indicates that the ARP inspection task has exited illegally. [dec] is the task number.

Recommended Action Copy the error message exactly as it appears, and contact your technical support representative. Restart the system to make sure that the ARP inspection feature continues to operate.

Error Message ACL-2-TASKFAIL: ACL task exits

Explanation This message indicates that the ACL task cannot be created, so no security or QoS functions are available.

Recommended Action Check your configuration. If improper configuration caused the problem, refer to the documentation to help correct the configuration. If the problem persists, contact your technical support representative.

Error Message ACL-2-VACLLOGTASKFAIL: VACL Logging task exits: [dec]

Explanation This message indicates that the VLAN Access Control List (VACL) logging task is ending. [dec] is the VLAN number.

Recommended Action Check your configuration. If improper configuration caused the problem, refer to the documentation to help correct the configuration. If the problem persists, contact your technical support representative.

ACL-3

Error Message ACL-3-ACLPORTBASENVRAMFAIL: Failed to save Port Security ACL to NVRAM for port [dec]/[dec]

Explanation This message indicates that there is no NVRAM space allocated to save port security ACL portbase information. The ACL will still be programmed into the hardware, but the configuration will be lost after a reset if it is not saved in NVRAM. The first [dec] is the module number, and the second [dec] is the port number.

Recommended Action Allocate more NVRAM.

Error Message ACL-3-ARPINSPECTACLCFGFAIL: Could not configure Dynamic ARP Inspection on vlan [dec] due to ACL error

Explanation This message indicates that ARP inspection cannot be configured because the ACL manager returned an error. [dec] is the VLAN number.

Recommended Action The TCAM table might be full. Verify that there is space available in the TCAM table.

Error Message ACL-3-ARPINSPECTACLPORTCFG: Dynamic ARP Inspection [chars] on port [dec]/[dec]

Explanation This message indicates whether the dynamic ARP inspection was a success or a failure on a given port. [chars] indicates whether it was a success or a failure, and [dec]/[dec] is the module/port number.

Recommended Action Reconfigure the switch.

Error Message ACL-3-ARPINSPECTQFULL: Task queue full. Packet dropped

Explanation This message indicates that the ARP inspection queue is full.

Recommended Action Reduce the global rate limit for ARP inspection. If the problem persists, contact your technical support representative.

Error Message ACL-3-DACLACEINCLUDEMISSING: Base ACL [chars] does not have include keyword for [chars] feature.

Explanation This message indicates that the base ACL does not have the include keyword for a specific feature and that the user is authenticating the port with that feature. The port will go into authenticated state but no downloadable ACL (DACL) will be applied for that user. The first [chars] is the ACL name and the second [chars] is the feature name.

Recommended Action No action is necessary. This message is provided for information only.

Error Message ACL-3-DACLINCACE: Acl [chars] sent from AAA server has include keywords. This acl cannot be applied

Explanation This message indicates that the ACL name [chars] configured on the AAA server, along with one or all of the inpacl, outpacl, invacl, or outvacl attributes, contains an ACE that has an include keyword that prevents the ACL name from being applied.

Recommended Action Remove the include keyword ACE from the ACL or change the name of the ACL associated with the inpacl, outpacl, invacl, or outvacl attributes on the AAA server.

Error Message ACL-3-DACLINTACL: An internal system generated acl exists with the same name as [chars]. This acl cannot be applied.

Explanation This message indicates that one of the following situations has occurred:

- An ACL configured on the AAA server along with one or all of the inpacl, outpacl, invacl, or outvacl attributes, conflicts with an internal system-generated ACL on the switch.
- An ACL that has been configured on the switch and the name of the ACL are conflicting with another internal ACL generated by the downloadable ACL.

[chars] is the name of the ACL.

Recommended Action Downloadable ACLs are generated with the format, [chars]_[dec]_[dec]. Change the name of the ACL to a format that does not conflict with the name of the system-generated ACL.

Error Message ACL-3-DACLMAXACEREACHED: Number of aces in [chars] exceeds the maximum number of supported aces in a downloaded acl

Explanation The maximum number of ACEs that can be configured in a downloadable ACL on the AAA server is 1,500. This message indicates that the number of ACEs configured in a downloadable ACL on the AAA server exceeds the maximum. [chars] is the name of the downloadable ACL.

Recommended Action Ensure that the number of ACEs in the downloadable ACL [chars] does not exceed the maximum limit.

Error Message ACL-3-DACLRADIUSNOTREACHABLE: Radius server not reachable.

Explanation This message indicates that the DACL socket timer has expired while the DACL was being downloaded or when the user was waiting for a response from the RADIUS server.

Recommended Action No action is necessary. This message is provided for information only.

Error Message ACL-3-NOLABEL: acl engine is out of label

Explanation This message indicates that the hardware cannot map an ACL to the VLAN or to the port.

Recommended Action Reduce the ACL to VLAN or port mapping, or contact your technical support representative.

Error Message ACL-3-NOLOU: acl engine is out of logical operation unit

Explanation This message indicates that the hardware is out of logical operation units, which process the TCP/UDP port number operations.

Recommended Action Reduce the number of different operations being run. If the problem persists, contact your technical support representative.

Error Message ACL-3-PACLMAPNVRAMFAIL: Failed to commit Security ACL map between ACL [chars] and port [dec]/[dec] to NVRAM

Explanation This message indicates that there is no NVRAM space to save a PACL map of ACL [chars] to a specified port in NVRAM. The map will be removed from the hardware. [chars] is the ACL, the first [dec] is the module number, and the second [dec] is the port number.

Recommended Action Allocate more NVRAM.

Error Message ACL-3-PBFMSFCCHANGE: MSFC and PBF are running in the same time

Explanation This message indicates that policy-based forwarding (PBF) is configured on the network management processor (NMP) and that the MSFC has been booted. This configuration is not supported.

Recommended Action Configure the MSFC in ROMMON or clear the PBF configuration.

Error Message ACL-3-PBFMSFCPRESENT: PBF was committed in NVRAM, but PBF engine is not set, MSFC present

Explanation This message indicates that the PBF MAC address was saved to NVRAM but was not stored in the hardware because the MSFC is running.

Recommended Action You should configure the MSFC in ROMMON or clear the PBF configuration.

Error Message ACL-3-PBFOK: MSFC is down, PBF status is OK

Explanation This message indicates that the MSFC was put in ROMMON and that PBF is running properly.

Recommended Action No action is necessary. This message is provided for information only.

Error Message ACL-3-PVLAN_ADDPVLANFAIL: Failed to add secondary VLAN [dec] to primary VLAN [dec]

Explanation This message indicates that an existing VLAN has become a secondary VLAN and there was a Cisco IOS ACL or dynamic ACE mapped to the existing VLAN. The message can also occur when an existing VLAN becomes a secondary VLAN and the primary VLAN has a policy routing ACL configured (valid on Supervisor Engine 2 only). The first [dec] is the secondary VLAN number, and the second [dec] is the primary VLAN number.

Recommended Action Remove the Cisco IOS ACL mapping before adding the secondary VLAN.

Error Message ACL-3-PVLAN_ATTACHACLFAIL: Failed to map router ACL to private VLAN [dec]

Explanation This message indicates that the router tried to download a Cisco IOS ACL or dynamic ACE on an existing secondary VLAN, or a policy routing ACL is configured on a primary VLAN. [dec] is the VLAN number.

Recommended Action Set the PVLAN to a regular VLAN.

Error Message ACL-3-PVLAN_DELETEACLFAIL: Failed to delete router ACL from secondary VLAN [dec]

Explanation This message indicates that an attempt was made to remove router ACLs from a secondary VLAN. [dec] is the secondary VLAN number.

Recommended Action Make sure you do not have any router interfaces configured on a secondary VLAN.

Error Message ACL-3-PVLAN_LDPGATEDLTACLFAIL: Failed to delete LDA ACL from secondary VLAN [dec]

Explanation This message indicates that an ACL created by the LocalDirector Accelerator (LDA) feature cannot be removed from a secondary VLAN. [dec] is the secondary VLAN number.

Recommended Action Contact your technical support representative.



Note LocalDirector Accelerator is now referred to as accelerated server load balancing (ASLB).

Error Message ACL-3-PVLAN_LDPGATEMAPFAIL: Failed to propagate LDA ACL to secondary VLAN [dec]

Explanation This message indicates that an ACL created by the LDA feature cannot be mapped to a secondary VLAN. [dec] is the secondary VLAN number.

Recommended Action Contact your technical support representative.

Error Message ACL-3-PVLAN_PGATEDFLTACTION: Failed to propagate router default action to secondary to VLAN [dec]

Explanation This message indicates that the router set a default action on a primary VLAN, but this action was not sent to the secondary VLANs. [dec] is the secondary VLAN number.

Recommended Action Check your configuration. If improper configuration caused the problem, refer to the documentation to help correct the configuration. If the problem persists, contact your technical support representative.

Error Message ACL-3-PVLAN_PGATEDLTACLFAIL: Failed to propagate router ACL deletion to secondary VLAN [dec]

Explanation This message indicates that a delete operation on a primary VLAN did not succeed in removing the mapping of the same ACL from the secondary VLANs. [dec] is the secondary VLAN number.

Recommended Action Contact your technical support representative.

Error Message ACL-3-PVLAN_PGATEMAPFAIL: Failed to propagate router ACL to secondary VLAN [dec]

Explanation This message indicates that a Cisco IOS ACL downloaded to a primary VLAN did not get propagated to the secondary VLANs. [dec] is the secondary VLAN number.

Recommended Action Check your configuration. If improper configuration caused the problem, refer to the documentation to help correct the configuration. If the problem persists, contact your technical support representative.

Error Message ACL-3-PVLAN_SETDFLTFAIL: Failed to set router default action on secondary VLAN [dec]

Explanation This message indicates that the router tried to set a default action on a secondary VLAN. [dec] is the secondary VLAN number.

Recommended Action Make sure that you do not have any router interfaces configured on a secondary VLAN.

Error Message ACL-3-RACLMAPCOMMITFAIL: Failed to map Router ACL to VLAN [dec]

Explanation This message indicates that the VLAN is configured with a private VLAN (PVLAN) and that the Router Access Control List (RACL) for this VLAN cannot be configured in the Policy Feature Card (PFC). The RACL is enforced in the Multilayer Switch Feature Card (MSFC) software. [dec] is the VLAN number.

Recommended Action Remove the PVLAN configuration, and reattach the RACL to the VLAN to configure it in PFC.

Error Message ACL-3-TCAMFULL: acl engine TCAM table is full

Explanation This message indicates that the hardware ternary content addressable memory (TCAM) table was full when you attempted to configure a new ACL.

Recommended Action Try to remove the unused security or QoS ACL, or contact your technical support.

Error Message ACL-3-TCAMRSVREGFULL: Acl engine TCAM Reserved Region is full

Explanation This message indicates that the reserved region of the ternary content addressable memory (TCAM) is full. This fixed-size region is used for installing dynamic and reflexive ACLs.

Recommended Action This condition is usually transient. Remove any unwanted CBAC configurations from the system. If this action does not correct the error, contact your technical support representative.

Error Message ACL-3-VACLACLCOMMITFAIL: Failed to commit Security ACL [chars]

Explanation This message indicates that the Access Control List (ACL) was not committed to the hardware. [chars] is the name of the ACL.

Recommended Action No action is necessary. This message is provided for information only.

Error Message ACL-3-VACLACLNVRAMFAIL: Failed to commit Security ACL [chars] to NVRAM

Explanation This message indicates that the NVRAM and hardware are not working together. The ACL configuration was saved to the hardware but was not saved to NVRAM. [chars] is the name of the ACL.

Recommended Action Either move the ACL configuration to Flash or create space in NVRAM and commit again. Contact your technical support representative.

Error Message ACL-3-VACLMAPCOMMITFAIL: Failed to Map Security ACL [chars] to Vlan [dec]

Explanation This message indicates that the mapping between the ACL and the VLAN has failed. [chars] is the ACL name and [dec] is the VLAN name.

Recommended Action Check your configuration. If improper configuration caused the problem, refer to the documentation to help correct the configuration. If the problem persists, contact your technical support representative.

Error Message ACL-3-VACLMAPDELETEFAIL: Failed to remove map between ACL [chars] and Vlan [dec]

Explanation This message indicates that the VACL cannot be detached from the VLAN. [chars] is the VACL string and [dec] is the VLAN interface number.

Recommended Action Verify the VACL name and the VLAN interface number.

Error Message ACL-3-VACLMAPNVRAMFAIL: Failed to commit Security ACL map between ACL [chars] and vlan [dec] to NVRAM

Explanation This message indicates that a security ACL failed to be saved in NVRAM. When this error occurs, the ACL and all its mappings will be removed from the hardware and NVRAM, yet the ACL will still be kept in the edit buffer. If the user frees enough NVRAM space and performs a commit again, the ACL will be successfully programmed and saved to NVRAM. [chars] is the ACL name and [dec] is the VLAN number.

Recommended Action Allocate more NVRAM.

ACL-4

Error Message ACL-4-ACLMERGE: Failed to enable bdd: not enough memory

Explanation This message indicates that the ACL merge algorithm binary decision diagram (BDD) was not enabled because the supervisor engine has insufficient DRAM memory.

Recommended Action No action is necessary. This message is provided for information only.

Error Message ACL-4-ARPINSPECTRATELIMITDISABLED: Dot1x DHCP and ARP Inspection global rate is disabled

Explanation This message indicates that the Dot1x Dynamic Host Configuration Protocol (DHCP) and ARP inspection rate-limiting feature is disabled.

Recommended Action No action is necessary. This message is provided for information only.

Error Message ACL-4-VACLLOGRATELIMITDISABLED: VACL Logging rate limit disabled

Explanation This message indicates that the VACL logging rate-limiting feature is disabled.

Recommended Action No action is necessary. This message is provided for information only.

ACL-5

Error Message ACL-5-ARPINSPECTADDRVALIDATIONFAIL1: Ethernet Source MAC [chars]

Explanation This message indicates that a packet with an invalid MAC or IP address was received by the port. [chars] is the address received.

Recommended Action This error may be the result of an illegal user connected to the port. Check the users that are connected to the port.

Error Message ACL-5-ARPINSPECTADDRVALIDATIONFAIL2: ARP Payload: Source IP [chars] and source MAC [chars]. Port [dec]/[dec]

Explanation This message is related to and follows the VALIDATIONFAIL1 message. The message indicates that a packet with an invalid MAC or IP address was received by the port. The first [chars] is the source IP address received, the second [chars] is the source MAC address received, and [dec]/[dec] is the module number/port number where the invalid address was received.

Recommended Action This error may be the result of an illegal user connected to the port. Check the users that are connected to the port.

Error Message ACL-5-ARPINSPECTDROPTHRESHOLD: Drop threshold ([dec] pps) exceeded on port [dec]/[dec]. Packet dropped

Explanation This message indicates that the per-port packet-drop threshold has been exceeded. [dec] is the packet-drop threshold.

Recommended Action No action is necessary. This message is provided for information only.

Error Message ACL-5-ARPINSPECTIPPKT1: IP packet with source IP 0.0.0.0, destination IP 0.0.0.0, and IP protocol ICMP

Explanation This message indicates that a packet that has a source IP 0.0.0.0 and a destination IP 0.0.0.0 and uses the ICMP protocol has been received on the port.

Recommended Action This message may be an indication that a malicious user is connected to the port. Check the users that are attached to the port.

Error Message ACL-5-ARPINSPECTIPPKT2: Source MAC [chars] and received on port [dec]/[dec]. Packet dropped

Explanation This message is normally posted following the ARPINSPECTIPPKT1 message. The message indicates that a packet that has a source IP 0.0.0.0 and a destination IP 0.0.0.0 and uses the ICMP protocol has been received on the port. [chars] is the source MAC address and [dec]/[dec] is the module number/port number where the packet was received.

Recommended Action This message may be an indication that a malicious user is connected to the port. Check the users that are attached to the port.

Error Message ACL-5-ARPINSPECTJUMBOFRAMEDROPPED: Dropped jumbo ARP packet of size [dec] from port [dec]/[dec]

Explanation This message indicates that a jumbo ARP frame was dropped by the ARP inspection task because jumbo frames are not supported. The first [dec] is the packet size. [dec]/[dec] is the module number and port number where the jumbo packet was detected.

Recommended Action No action is necessary. This message is provided for information only.

Error Message ACL-5-ARPINSPECTMATCHMACFAIL1: Source MAC address [chars] does not match ARP header source MAC address.

Explanation This message indicates that the source MAC in the Ethernet header did not match the source MAC in the ARP header. [chars] is the MAC address.

Recommended Action This message may be an indication that a malicious user is connected to the port. Check the users that are attached to the port.

Error Message ACL-5-ARPINSPECTMATCHMACFAIL2: ARP Payload: Source IP [chars] and source MAC [chars]. Port [dec]/[dec]

Explanation This message is normally posted following the ARPINSPECTMATCHMACFAIL1 message. The message indicates that the source MAC in the Ethernet header did not match the source MAC in the ARP header. The first [chars] is the source IP address, the second [chars] is the source MAC address, and [dec]/[dec] is the module number/port number.

Recommended Action This message may be an indication that a malicious user is connected to the port. Check the users that are attached to the port.

Error Message ACL-5-ARPINSPECTPKTDENIED1: Packet denied. Source MAC [chars]

Explanation This message indicates that an ARP packet was denied because of the configuration rules. [chars] is the source MAC address.

Recommended Action This message may be an indication that a malicious user is connected to the port. Check the users that are attached to the port.

Error Message ACL-5-ARPINSPECTPKTDENIED2: ARP Payload: Source IP [chars] and source MAC [chars]. Port [dec]/[dec]

Explanation This message is normally posted following the ARPINSPECTPKTDENIED1 message. The message indicates that an ARP packet was denied because of the configuration rules. The first [chars] is the source IP address, the second [chars] is the source MAC address, and [dec]/[dec] is the module number/port number.

Recommended Action This message may be an indication that a malicious user is connected to the port. Check the users that are attached to the port.

Error Message ACL-5-ARPINSPECTSHUTTHRESHOLD: Shutdown threshold ([dec] pps) exceeded on port [dec]/[dec]. Port shutdown

Explanation This message indicates that the per-port shutdown threshold has been exceeded. [dec] is the threshold limit, and [dec]/[dec] is the module number/port number.

Recommended Action This message may be an indication that a malicious user is connected to the port. Check the users that are attached to the port.

Error Message ACL-5-DACLLEARCACHE: ACL [chars] removed from cache.

Explanation This message indicates that a DACL has been removed from cache memory due to timer expiration. [chars] is the ACL name.

Recommended Action No action is necessary. This message is provided for information only.

Error Message ACL-5-RACLCONFLICTLDA: RACL conflicts with LDA on Vlan [dec]

Explanation This message indicates that you are trying to configure a Cisco IOS ACL on a VLAN that has LocalDirector Accelerator (LDA) configured. The switch fails the Cisco IOS ACL configuration. Vlan [dec] is the VLAN number.

Recommended Action Check your configuration. If improper configuration caused the problem, refer to the documentation to help correct the configuration. If the problem persists, contact your technical support representative.



Note LDA is now referred to as accelerated server load balancing (ASLB).

ACL-6

Error Message ACL-6-DACLACEDOWNLOADED: For ACL [chars] all ACEs have been downloaded from AAA server.

Explanation This message indicates that all the ACEs have been downloaded from the AAA server. [chars] is the ACL name.

Recommended Action No action is necessary. This message is provided for information only.

Error Message ACL-6-DACLBASEACLNOTMAPPED: DACL cant be applied as ACL [chars] mapped to port [dec]/[dec] is not having include keyword.

Explanation This message indicates that an ACL does not have an include keyword that is mapped to ports but there are downloadable ACLs configured on the RADIUS server. [chars] is the ACL name and [dec]/[dec] is the module/port number to which the ACL is mapped.

Recommended Action No action is necessary. This message is provided for information only.

Error Message ACL-6-DACLQUEUEFULL: DACL event queue is full.

Explanation This message indicates that the user cannot add an entry to the DACL queue because it is full.

Recommended Action No action is necessary. This message is provided for information only.

Error Message ACL-6-LOUEXPANSION: Acl engine is performing 14 operators expansion

Explanation This message indicates that the ACL code is converting an access control entry (ACE) into a series of equivalent ACEs to overcome an out of logical operator unit (LOU) condition.

Recommended Action No action is necessary. This message is provided for information only.

Error Message ACL-6-VACLFINISHRESTORE: Finished restoring Security ACL configuration to hardware

Explanation This message is printed after the ACL configuration has been restored to the hardware. Traffic on VLANs with ACLs mapped to them follows the ACL configuration rules.

Recommended Action No action is necessary. This message is provided for information only.

Error Message ACL-6-VACLLOG: VLAN [dec] (Port [dec][dec]) denied [chars]

Explanation This message is generated when the VACL logging function is enabled. Logged denied-packet information is displayed on the console or forwarded to the syslog server in the VACLLOG message format. The first [dec] is the VLAN number, Port [dec][dec] is the module number and port number, and [chars] contains the source IP address, TCP source port number, destination IP address, TCP destination port number, and number of packets.

Recommended Action No action is necessary. This message is provided for information only.

Error Message ACL-6-VACLSTARTRESTORE: Restoring Security ACL configuration to hardware

Explanation This message is printed at startup to notify the user that the ACL configuration is being restored to hardware. All traffic is denied through VLANs that have ACLs mapped to them until the next message (VACLFINISHRESTORE) is printed.

Recommended Action No action is necessary. This message is provided for information only.

ACL-7

Error Message ACL-7-DACLFAILURE: Host [chars] on [dec]/[dec] could not be authenticated due to a failure in applying the downloaded ACL [chars].

Explanation This message indicates that the system has received a failure status for the corresponding feature callback. The first [chars] is the IP address, [dec]/[dec] is the module/port number, and the second [chars] is the ACL name.

Recommended Action No action is necessary. This message is provided for information only.

Error Message ACL-7-DACLSM: State Machine is in [chars] state for ACL [chars].

Explanation This message indicates the state that the DACL state machine is in for a specific ACL. This message is a debugging level message. The first [chars] is the state name and the second [chars] is the ACL name.

Recommended Action No action is necessary. This message is provided for information only.

CallHome

This section contains the CallHome protocol messages.

CALLHOME-3

Error Message CALLHOME-3-CALLHOME_ERR: [chars]

Explanation This message indicates a memory corruption problem, a system call failure, or an SMTP failure.

The following [chars] character strings refer to a memory corruption problem:

- CallHome table index out of bounds

The following [chars] character strings refer to a system call failure:

- Socket open failed
- ioctl fionbio on socket failed
- Fdset system failed
- Nonblocking connect system call to SMTP server failed
- Select system call failed
- Write system call failed
- Read system call failed

The following [chars] character strings refer to an SMTP failure:

- SMTP server did not send expected response to connect call
- SMTP client did not send **ehlo** (extended **helo**) command to SMTP server
- SMTP client did not send **helo** command to SMTP server
- SMTP server did not send expected response to **ehlo/helo** command
- SMTP client did not send **mail from** command to SMTP server
- SMTP server did not send expected response to **mail from** command
- SMTP client did not send **rcpt to** command to SMTP server
- SMTP server did not send expected response to **rcpt to** command
- SMTP client did not send **data** command to SMPT server
- SMTP server did not send expected response to **data** command
- SMTP client did not send content to SMTP server

- SMTP client did not send to SMTP server
- SMTP server did not send expected response
- SMTP client did not send **quit** command to SMTP server
- SMTP server did not send expected response to **ehlo quit** command
- SMTP server did not send expected response to **helo quit** command

Recommended Action For a memory corruption problem, contact your technical support representative. For a system call failure, troubleshoot to find the reason that the system call fails. If you cannot isolate the problem, contact your technical support representative. For an SMTP failure, troubleshoot to find the reason that SMTP fails. If you cannot isolate the problem, contact your technical support representative.

CALLHOME-4

Error Message CALLHOME-4-CALLHOME_WARN: [chars]

Explanation This message indicates a failure in the SMTP. The [chars] character string in this message may display the following:

- SMTP client did not send SUBJECT field to SMTP server.
- SMTP client did not send REPLY-TO field to SMTP server.

Recommended Action Contact your technical support representative.

CALLHOME-7

Error Message CALLHOME-7-CALLHOME_DBG: [chars]

Explanation This message indicates one of several problems. The following [chars] character strings are displayed:

- CallHome functionality is disabled—This message indicates that the CallHome functionality is disabled. The message is generated whenever the CallHome functionality is requested and the system finds that the CallHome functionality is disabled.
- System management interface IP address not configured—This message indicates that the management interface has not been configured. The message is generated whenever the CallHome functionality is requested and the management interface has not been configured. The CallHome functionality does not work unless the management interface is operating and the SMTP server can be pinged.
- CallHome SMTP server table has zero servers configured—This message indicates that the SMTP servers have not been configured. The message is generated whenever the CallHome functionality is requested and there are no SMTP servers in the system configuration. Unless the SMTP server can be pinged from the switch, the CallHome functionality does not work.

- CallHome destination address table has zero addresses configured—This message indicates that the destination address for CallHome messages has not been configured. This message is generated whenever the CallHome functionality is requested and there are no destination addresses. The syslog messages cannot be sent unless there are destination addresses present in the system configuration.

Recommended Action Contact your technical support representatives.

CDP Messages

This section contains the Cisco Discovery Protocol (CDP) messages.

CDP-2

Error Message CDP-2-L2LOOP: Possible loop in VLAN [dec]. Port [dec]/[dec] received its own CDP packet

Explanation This message indicates that a loop error has been detected on a disabled VLAN and that the port is being shut down. VLAN [dec] is the VLAN number, and [dec]/[dec] is the module number/port number of the faulty port.

Recommended Action Contact your technical support representative.

CDP-3

Error Message CDP-3-SENDFAIL: Transmit failure on port [dec]/[dec]

Explanation This message indicates that a transmit failure occurred on the port. [dec]/[dec] is the module number/port number.

Recommended Action Contact your technical support representative.

CDP-4

Error Message CDP-4-DUPLEXMISMATCH: Full/half duplex mismatch detected on port [dec]/[dec]

Explanation This message indicates that the duplex configuration of an Ethernet port is different from the configuration set on at least one of the neighboring ports. [dec]/[dec] is the module number/port number.

Recommended Action Check the duplex settings. If the duplex configuration does not match, set it appropriately. If no apparent mismatch is found, contact your technical support representative.

Error Message CDP-4-NVLANMISMATCH: Native vlan mismatch detected on port [dec]/[dec]

Explanation This message indicates that the native VLAN is different from the one set on at least one of the neighboring ports. [dec]/[dec] is the module number/port number of the mismatched port.

Recommended Action Check the native VLAN settings. If the VLAN configuration does not match, set it appropriately. If no apparent mismatch is found, contact your technical support representative.

CDP-7

Error Message CDP-7-PACKETRX: Packet Reception detected on port [dec]/[dec]

Explanation This message indicates that a packet has been detected on a module port. [dec]/[dec] is the module number and port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message CDP-7-PACKETTX: Packet Transmission detected on port [dec]/[dec]

Explanation This message indicates that a packet has been transmitted from a module port. [dec]/[dec] is the module number and port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message CDP-7-PKTDROP: Packet dropped as CDP is disabled on port [dec]/[dec]

Explanation This message indicates a packet dropped as CDP was disabled on the port. [dec]/[dec] is the module number/port number.

Recommended Action Check the CDP port status. If the port is disabled, enable it; if the port is enabled, contact your technical support representative.

COPS Messages

This section contains the Common Open Policy Service (COPS) messages.

COPS-3

Error Message COPS-3-DS-CLIENT_INIT_FAILED: Failed to initialize DsClient, error status [dec]

Explanation This message indicates that the COPS DS client failed to initialize. [dec] is the error message.

Recommended Action Contact your technical support representative.

Error Message COPS-3-SERVER_NOT_CONFIGURED: COPS server not configured for [chars] client

Explanation This message indicates that the COPS server is not configured on the switch. [chars] is the client server name.

Recommended Action Configure the COPS server IP address or name.

Error Message COPS-3-TTL_TIMER_MALLOC_FAILED: Malloc Failed for Pib Ttl Timer

Explanation This message indicates that the COPS DS client could not allocate memory for one of its internal objects because of insufficient memory.

Recommended Action Contact your technical support representative.

COPS-5

Error Message COPS-5-HA_POLICY_TIMER_EXPIRED: HA Policy Timer Expired - Applying local policy on ports that do not have COPS policy

Explanation This message indicates that the COPS policy may be incomplete or not fully received from the COPS server. Until the COPS policy is completely received, a locally configured COPS policy will apply to the ports.

Recommended Action No action is necessary. This message is provided for information only.

Error Message COPS-5-TTL_TIMER_EXPIRED: Ttl Timer expired, reverting to NVRAM policy

Explanation This message indicates that the COPS DS client has lost connection to the COPS server. After the connection loss, the COPS policy is cached for a limited period of time. After the cache timer has expired, the COPS DS client applies local NVRAM policy to all interfaces.

Recommended Action No action is necessary. This message is provided for information only.

COPS-6

Error Message COPS-6-CONN_LOST: Connection to COPS server [chars] (port: [dec]) lost

Explanation This message indicates that the COPS Connection Manager lost its connection to the COPS server. [chars] is the IP address and [dec] is the port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message COPS-6-CONN_MADE: New Connection made to COPS server [chars] (port: [dec])

Explanation This message indicates that the COPS Connection Manager has made a new connection to the COPS server. [chars] is the IP address, and [dec] is the port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message COPS-6-DS_CLIENT_EXITING: COPS Ds Client Exiting

Explanation This message indicates that the COPS DS client has completely shut down after being disabled from the command line interface.

Recommended Action No action is necessary. This message is provided for information only.

Error Message COPS-6-KA_TIMER_EXPIRED: Keep Alive timer expired for connection to COPS

Explanation This message indicates that the keepalive timer has expired. The COPS Connection Manager considers the connection to the COPS server broken and will try to reconnect to the server.

Recommended Action No action is necessary. This message is provided for information only.

Error Message COPS-6-SERVER_DNS_LOOKUP_FAILED: Name lookup for [chars] COPS server for Cops-[chars] client failed

Explanation This message indicates that the COPS client was unable to resolve an incorrect COPS server name. The first [chars] is the name entered for the COPS server and the second [chars] is the name of the COPS client.

Recommended Action Enter a new name for the COPS server.

COPS-7

Error Message COPS-7-CONN_ATTEMPT_FAILED: Connection attempt to COPS server [chars] (port: [dec]) failed

Explanation This message indicates that the COPS Connection Manager failed to make a connection to the COPS server. [chars] is the IP address, and [dec] is the port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message COPS-7-CONN_ATTEMPT_MADE: Attempting to connect to COPS server [chars] (port: [dec]) for [chars] client

Explanation This message indicates that the switch was attempting to connect to the COPS server for policy information. [chars] is the name of the COPS server, [dec] is the port number, and [chars] is the name of the client server.

Recommended Action No action is necessary. This message is provided for information only.

DHCP Snooping

This section contains the Dynamic Host Configuration Protocol snooping (DHCP Snooping) messages.

DHCP Snooping-2

Error Message DHCP_SNOOPING-2-EARLL2L3_SEQERROR: L2 Seq [dec], L3 Seq [dec]

Explanation This message indicates that the EARL has stopped forwarding packets because of a sequence error. The system is attempting to recover. The first [dec] is the Layer 2 sequence error and the second [dec] is the Layer 3 sequence error.

Recommended Action No action is necessary unless you see this message every few minutes or if switching modules are power cycled repeatedly following the receipt of the message. If either or both of these conditions occur, contact your technical support representative.

DHCP Snooping-3

Error Message DHCP_SNOOPING-3-DHCP_SNOOPINGBINDINGLIMITEXCEEDED: Binding limit exceeded. More binding cannot be added.

Explanation This message indicates that the total number of DHCP snooping bindings on the system has exceeded the maximum number allowed.

Recommended Action No action is necessary. This message is provided for information only.

Error Message DHCP_SNOOPING-3-DHCP_SNOOPINGJUMBOFRAMEDROPPED: Dropped Jumbo DHCP packet of size [dec] on port [dec]/[dec]

Explanation This message indicates that a jumbo frame has been dropped by the ARP inspection task. Jumbo frames are not supported by ARP inspections. Size [dec] indicates the size of the packet being dropped, and [dec]/[dec] is the module number and port number where the jumbo packet was detected.

Recommended Action No action is necessary. This message is provided for information only.

Error Message DHCP Snooping-3-DHCP Snooping Port Limit Exceeded: Per port binding limit exceeded on port [dec]/[dec]. More bindings cannot be added on port [dec]/[dec].

Explanation This message indicates that the total number of DHCP snooping bindings on a port has exceeded the maximum number allowed. The first [dec]/[dec] is the module number and port number where the binding limit was exceeded, and the second [dec]/[dec] is the same module number and port number where more bindings cannot be added.

Recommended Action No action is necessary. This message is provided for information only.

Error Message DHCP Snooping-3-DHCP Snooping Queue Full: Task queue full. Packet dropped on port [dec]/[dec]

Explanation This message indicates that the task queue is full due to a flood of packets. [dec]/[dec] is the module number and port number where the flood of packets was detected.

Recommended Action Check that the feature rate limit is not disabled or set to a high value.

Error Message DHCP Snooping-3-DHCP Snooping Source Guard Configuration Fail: Could not configure Source Guard on port [dec]/[dec] due to ACL error.

Explanation This message indicates that the Source Guard feature cannot be configured because the ACL manager detected an error. [dec]/[dec] is the module number and port number where the error was detected.

Recommended Action Check the ACL configuration because there may be no space left in the TCAM.

Error Message DHCP Snooping-3-DHCP Snooping Source Guard Port IP Limit: Port [dec]/[dec] already has [dec] addresses -- [chars] will not be able to send IP packets

Explanation This message indicates that the number of IP addresses on a port has exceeded ten, which is the maximum number supported. [dec]/[dec] is the module number and port number where the error occurred, [dec] is the number of IP addresses on the port, and [chars] is the source of the IP packets.

Recommended Action Check for a possible network topology problem. The Source Guard feature may also be activated; if so, deactivate it.

DHCP Snooping-4

Error Message DHCP Snooping-4-DHCP Snooping Rate Limit Exceeded: The interface [chars] is receiving more than the threshold set

Explanation This message indicates that DHCP packets are coming into the CPU at a much higher rate than the specified threshold allows. [chars] is the interface that is receiving the packets.

Recommended Action Contact your technical support representative.

Error Message DHCP Snooping-4-INVALID_RELEASE_OR_DECLINE_PKT: The interface [chars] has received a DHCP Release/Decline packet with no existing binding entry for it

Explanation This message indicates that a DHCP release or decline packet was received with no corresponding binding entry. [chars] is the interface that has received the packet.

Recommended Action No action is necessary. This is an informational message used for debugging purposes.

Error Message DHCP Snooping-4-OPTION82_INSERTION_FAIL: The interface [chars] is not able to insert opt82 into the packet because of insufficient space in the packet

Explanation This message indicates that a DHCP packet was not inserted with option 82 data because of insufficient space in the packet. [chars] is the interface.

Recommended Action Contact your technical support representative.

DHCP Snooping-5

Error Message DHCP Snooping-5-DHCP SnoopingDestNotFound: [chars] could not find destination port. Destination MAC [chars].

Explanation This message indicates that DHCP snooping cannot determine the destination port for a reply. The first [chars] indicates the type of DHCP message, and the second [chars] indicates the source MAC address of the packet.

Recommended Action This message may be an indication of a transient error or a malicious user connected to the port. Check the users that are attached to the port.

Error Message DHCP Snooping-5-DHCP SnoopingFakeIP: [chars] IP address in packet does not match binding table. Source MAC [chars].

Explanation This message indicates that the IP address in the DHCP header (typically for DHCPRELEASE) does not match the IP address in the binding table. The first [chars] indicates the type of DHCP message, and the second [chars] indicates the source MAC address of the packet.

Recommended Action This message may be an indication of a malicious user connected to the port. Check the users that are attached to the port.

Error Message DHCP Snooping-5-DHCP SnoopingMatchMacFail: [chars] source MAC [chars] does not match DHCP 'chaddr' [chars].

Explanation This message indicates that the source MAC address in the Ethernet header does not match the 'chaddr' in the DHCP header. The check is carried out only if the match-mac feature is enabled. [chars] is the type of DHCP message, the second [chars] is the source MAC in the Ethernet header, and the third [chars] is the 'chaddr' in the DHCP header.

Recommended Action This message may be an indication of a malicious user connected to the port. Check the users that are attached to the port.

Error Message DHCP Snooping-5-DHCP Snooping Nonzero GIADDR: [chars] non-zero *giaddr* or option 82 from untrusted port. Source MAC [chars].

Explanation This message indicates that a DHCP packet with a non-zero gateway address (*giaddr*) or option 82 is received from an untrusted port. The first [chars] indicates the type of DHCP message, and the second [chars] indicates the source MAC address of the packet.

Recommended Action This message may be an indication of a malicious user connected to the port. Check the users that are attached to the port.

Error Message DHCP Snooping-5-DHCP Snooping Pktdrop: Packet dropped on port [dec] [dec] on VLAN [dec].

Explanation This message indicates that a packet is dropped. The first [dec] refers to the module number, the second [dec] refers to the port number on that module, and the third [dec] refers to the VLAN number.

Recommended Action No action is necessary. A preceding message explains why the packet was dropped.

Error Message DHCP Snooping-5-DHCP Snooping Untrusted Port: [chars] disallowed on untrusted ports. Source MAC [chars].

Explanation This message indicates that a DHCP packet that is only allowed from trusted ports is coming in on an untrusted port. The first [chars] indicates the type of DHCP message, and the second [chars] indicates the source MAC address of the packet.

Recommended Action This message may be an indication of a malicious user connected to the port. Check the users that are attached to the port.

Error Message DHCP Snooping-5-FakeIP: [chars]: IP address in packet does not match binding table. Source MAC [chars]

Explanation This message indicates that an IP address in a packet does not match the IP address in the corresponding binding table MAC entry.

Recommended Action No action is necessary. This message is for informational purposes only.

Error Message DHCP Snooping-5-Malformed Option: [chars]: malformed option [hex] on port. Source MAC [chars]

Explanation This message indicates that during DHCP snooping, the switch received an incorrectly formatted DHCP option. The first [chars] is the DHCP message type, [hex] is the DHCP option number, and the second [chars] is the source MAC address in the Ethernet header of the packet.

Recommended Action Investigate the packet sender to determine why this message is being displayed.

Error Message DHCP Snooping-5-PKTDROP: Packet dropped -- port [dec]/[dec] on vlan [dec]

Explanation This message indicates that packets were dropped on the specified port on the specified VLAN. [dec]/[dec] indicates the module and port numbers, and the third [dec] is the VLAN number.

Recommended Action No action is necessary. This message is for informational purposes only.

DHCP Snooping-6

Error Message DHCP Snooping-6-NAKDROP: Invalid NAK Pkt dropped on port [dec]/[dec] on vlan [dec].

Explanation This message indicates that the IOS DHCP server has sent a NAK packet even though it has received a request destined for another server. The NAK packet is dropped. [dec]/[dec] is the module and port number, and the last [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

DOM Messages

This section contains the Diagnostic Optical Monitoring (DOM) messages.

DOM-3

Error Message DOM-3-BADTREEPARAM: Bad parameter for [chars] passed to tree library function.

Explanation This message indicates an internal software error. [chars] indicates the reason for the error message.

Recommended Action No action is necessary. This message is provided for information only.

Error Message DOM-3-INTERNAL_ERROR: Internal software error, message indicates the nature of the problem [chars]

Explanation This message indicates that there is an internal error. [chars] provides detailed information about the error.

Recommended Action No action is necessary. This message is provided for information only.

Error Message DOM-3-INVALID_THRESHOLD: [dec]/[dec]: Configured [chars] [chars] threshold invalid, might cause invalid violations

Explanation This message indicates that the threshold values you configured on a port have become invalid after a transceiver is changed. [dec]/[dec] is the module/port number, the first [chars] is the threshold parameter, and the second [chars] is the threshold type.

Recommended Action Set the threshold values to the default using the **set port transceiver m/p param alarm threshold default** command.

Error Message DOM-3-NOMEM: Not enough memory available for [chars]

Explanation This message indicates that the switch is not able to allocate memory. [chars] provides more details about the failure.

Recommended Action No action is necessary. This message is provided for information only.

Error Message DOM-3-READ_ERROR: [chars]

Explanation This message indicates that the software is not able to read the idprom on the transceiver. [chars] indicates the type of error.

Recommended Action Make sure that the transceiver is operating properly. If the transceiver appears to be operational, contact your technical support representative for further assistance.

Error Message DOM-3-TABLEERR: [chars] table [chars] damaged: [chars].

Explanation This message indicates an internal software error. The first [chars] is the protocol, the second [chars] is the table name, and the third [chars] is the reason for the error message.

Recommended Action No action is necessary. This message is provided for information only.

Error Message DOM-3-THRESHOLD_VIOLATION: [dec]/[dec]: [chars]; Operating value: [chars], Threshold value: [chars]

Explanation This message indicates that the operating value of one of the transceiver parameters (temperature, voltage, current, rx-power or tx-power) has exceeded the threshold configured on the switch. [dec]/[dec] is the module/port number, the first [chars] is the type of alarm, the second [chars] is the operating value, and the third [chars] is the threshold value.

Recommended Action If you are using the default values for the transceiver, check if the port is properly connected. If there is a violation of the receive or transmit power, check the transceiver specifications to make sure that the correct attenuators are connected for the transceivers. If the violation is for a temperature problem, make sure that the switch is being adequately cooled. If the violation is for voltage or current, check the transceiver specifications and make sure that the default values are correct. If you are not using default values and you have configured threshold values, check the specifications and make sure that the configured values are valid for each corresponding transceiver. If this error message continues to appear, contact your technical support representative for assistance.

Error Message DOM-3-UNEXPECTEDEVENT: [chars]

Explanation This message indicates that there is an internal software error. [chars] indicates the reason for the error.

Recommended Action Contact your technical support representative for assistance.

DRIP Messages

This section contains the Dual Ring Protocol (DRiP) messages.

DRIP-3

Error Message DRIP-3-DRIPALRINIT: Drip Already Initialized

Explanation This message indicates that DRiP was previously enabled and initialized, and a software module requested a reinitialization of the database.

Recommended Action Contact your technical support representative.

Error Message DRIP-3-DRIPALRSHUT: Drip Already Shutdown

Explanation This message indicates that DRiP was previously shut down, and a software module has requested another shutdown.

Recommended Action Contact your technical support representative.

Error Message DRIP-3-DRIPCONFMAC2: LOC: [chars], REM: [chars]

Explanation This message precedes each DRiP-3 level conflict message (for example, Invalid Change Request. Status [hex]). The first [chars] is the MAC address for the local switch, and the second [chars] is the MAC address for the remote switch.

Recommended Action No action is necessary. This message is provided for information only.

Error Message DRIP-3-DRIPCOREERROR: Drip Core Error

Explanation This message indicates that the DRiP code has detected an internal error and that DRiP is an unreliable process at this point.

Recommended Action Execute the **show drip statistics** command, and provide the displayed information to your technical support representative.

Error Message DRIP-3-DRIPINVCHG: Invalid Change Request. Status [hex]

Explanation This message indicates that the DRiP database was called to update the database for a status byte that is invalid. [hex] is the status byte.

Recommended Action Contact your technical support representative.

Error Message DRIP-3-DRIPNOLCLBOX: No Local Box. Vlanid [dec], MAC [chars]

Explanation This message indicates the DRiP database was called, but no entry exists for the local MAC address and VLAN. [dec] is the VLAN number, and [chars] is the MAC address.

Recommended Action Contact your technical support representative.

Error Message DRIP-3-DRIPNOMAC: No Mac [chars] Match. Vlanid [dec]

Explanation This message indicates that the DRiP database was called, but no entry exists for this MAC address on the VLAN. [chars] is the MAC address, and [dec] is the VLAN number.

Recommended Action Contact your technical support representative.

Error Message DRIP-3-DRIPNOVLAN: No Vlanid [dec] Match. MAC [chars]

Explanation This message indicates that the DRiP database was called, but no entry exists for the VLAN for this switch. [dec] is the VLAN number, and [chars] is the switch name.

Recommended Action Contact your technical support representative.

Error Message DRIP-3-DRIPOUTRANGE: Vlanid [dec] out of range. MAC [chars]

Explanation This message indicates that the DRiP database received a request to enter a VLAN ID number that is out of range. [dec] is the VLAN number, and [chars] is the MAC address.

Recommended Action Document the VLAN ID and the MAC address, and contact your technical support representative.

DRIP-4

Error Message DRIP-4-DRIPCONFLICTACT: Vlanid [dec] Active Conflict. Status [hex]

Explanation This message indicates that a TrCRF VLAN has ports that are assigned and active on multiple switches and that distribute the Concentrator Relay Function (CRF) VLAN. [dec] is the VLAN number, and [hex] is the returned status. The DRiP database has an invalid status indication for this VLAN.

Recommended Action Contact your technical support representative.

Error Message DRIP-4-DRIPCONFLICTCON: Vlanid [dec] Configuration conflict

Explanation This message indicates that a TrCRF VLAN has ports assigned on multiple switches that distribute the CRF VLAN. [dec] is the VLAN number. Port assignments are allowed only on a single switch for this VLAN.

Recommended Action Reassign ports for this VLAN to one switch only. If this message reappears, contact your technical support representative.

Error Message DRIP-4-DRIPCONFLICTCONACT: Vlanid [dec] Configuration/Active Conflict

Explanation This message indicates that a TrCRF VLAN has ports assigned and active on multiple switches that distribute the CRF VLAN. [dec] is the VLAN ID number. Port assignments are allowed only on a single switch for this VLAN.

Recommended Action Reassign ports for this VLAN to one switch. If this message reappears, contact your technical support representative.

Error Message DRIP-4-DRIPCONFMAC1: LOC: [chars], REM: [chars]

Explanation This message precedes each DRIP-4 level conflict message (for example, Configuration conflict on vlan [dec]). The first [chars] is the MAC address for the local switch, and the second [chars] is the MAC address for the remote switch.

Recommended Action No action is necessary. This message is provided for information only.

DRIP-5

Error Message DRIP-5-DRIPFAILSCP: SCP Failure

Explanation This message indicates that DRIP tried to send a Serial Control Protocol (SCP) message to a module and failed.

Recommended Action Contact your technical support representative.

DTP Messages

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

DTP-1

Error Message DTP-1-ILGLCFG: Illegal config (on, isl--on,dot1q) on Port [dec]/[dec]

Explanation This message indicates that one end of the trunk is configured as ON, ISL. The other end of the trunk is configured as ON, dot1Q. [dec]/[dec] is the module number/port number where the syslog message is printed.

Recommended Action This is an illegal configuration and you must change the encapsulation type so that both ends of the trunk match.

DTP-3

Error Message DTP-3-NONTRUNKPORTFAIL: Port [dec]/[chars] failed to become non-trunk

Explanation This message indicates that the port failed to become nontrunked. [dec]/[chars] is the module number/port range.

Recommended Action Perform these steps, retrying the connection after each step:

-
- Step 1** Check the total memory available. If the total memory is close to 0, this might be the cause of the failure; contact your technical support representative. If the total memory available is not close to 0, proceed to the next step.
- Step 2** Check the status of the Serial Control Protocol (SCP); observe the count field. Repeat several times. If the count rises, this might be the cause of the failure; contact your technical support representative. If the count does not rise, contact your technical support representative.
-

Error Message DTP-3-TRUNKPORTFAIL: Port [dec]/[chars] failed to become trunk

Explanation This message indicates that the port failed to become trunked. [dec]/[chars] is the module number/port range.

Recommended Action Perform these steps, retrying the connection after each step:

-
- Step 1** Check the total memory available. If the total memory is close to 0, this might be the cause of the failure; contact your technical support representative. If the total memory available is not close to 0, proceed to the next step.
- Step 2** Check the status of the SCP; observe the count field. If the count rises, this might be the cause of the failure; contact your technical support representative. If the count does not rise, contact your technical support representative.
-

DTP-4

Error Message DTP-4-PKTQFULL: DTP internal queue dtpPktQ full

Explanation This message indicates that an overflow occurred in the Dynamic Trunking Protocol internal packet queue. A DTP error may appear if a trunk is flapping, misconfigured, or there is an excessive traffic/spanning tree loop.

Recommended Action Monitor the health of the switch trunk. Enter the **show logging buffer -1023** command. Clear the counter and enter the **show port** command to find out which port has an increasing error counter. Check the cable of the incorrect ports to make sure that the physical link is healthy, and determine if there is a duplex mismatch.

DTP-5

Error Message DTP-5-AUXVLANPORTOFF: Auxiliary vlan removed on port [dec]/[chars]

Explanation This message indicates that the link is down on a multiple-VLAN access port or that the auxiliary VLAN has been removed from the configuration of a multiple-VLAN access port. [dec]/[chars] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message DTP-5-AUXVLANPORTON: Auxiliary vlan added on port [dec]/[chars]

Explanation This message indicates that during a linkup on a port configured with multiple VLANs, if the port does not negotiate to become a trunk port, then it becomes a multiple VLAN access port. This message also can occur when an auxiliary VLAN is added to a working access port. [dec]/[chars] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

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

Explanation This message indicates that the port is nontrunked. [dec]/[chars] is the module number/port range. A misconfiguration of the trunking modes across the link can cause this error.

Recommended Action Verify the existing trunking mode and manually configure trunking modes across the link. If the message persists, contact your technical support representative.

Error Message DTP-5-NONVLAN2PORTON: Port [dec]/[chars] has become a nonvlan2-access port

Explanation This message indicates that a link is broken on a multiple VLAN access port. This message also occurs when an auxiliary VLAN is removed from a working access port. [dec]/[chars] is the module number/port name.

Recommended Action No action is necessary. This message is provided for information only.

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

Explanation This message indicates that the encapsulation type of the trunk has changed. [dec] is the module number, the first [chars] is the port number, the second [chars] is the original encapsulation type, and the third [chars] is the new encapsulation type.

Recommended Action No action is necessary. This message is provided for information only.

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

Explanation This message indicates that the port is trunked. [dec]/[chars] is the module number/port range.

Recommended Action No action is necessary. This message is provided for information only.

Error Message DTP-5-VLAN2PORTON: Port [dec]/[chars] has become a vlan2-access port

Explanation This message indicates that a port configured with multiple VLAN did not negotiate to become a trunk port and instead became a multiple VLAN access port. This message also occurs when an auxiliary VLAN is added to a working access port. [dec]/[chars] is the module number/port name.

Recommended Action No action is necessary. This message is provided for information only.

DTP-7

Error Message DTP-7-MULTIDROP: Port [dec]/[dec] detected multiple neighbors.

Explanation This message indicates that a trunk has detected multiple neighbors (shared environment). DTP turns off trunking to that port. [dec]/[dec] is the module number/port number.

Recommended Action No action is necessary if you want the port to be nontrunking.

Error Message DTP-7-NODTP: Port [dec]/[dec] not recd DTP packet for 5m.

Explanation This message indicates that the port is nontrunking because it has not received any DTP packets from its neighbor port for five minutes. [dec][dec] is the module number/port number.

Recommended Action Contact your technical support representative.

Error Message DTP-7-PORTLINKDOWN: Port [dec]/[chars] Link down

Explanation This message indicates that DTP detects a broken link for the port. [dec]/[chars] is the module number/port range.

Recommended Action Contact your technical support representative.

Error Message DTP-7-PORTLINKUP: Port [dec]/[chars] Link up

Explanation This message indicates that DTP detects an active link for the port. [dec]/[chars] is the module number/port range.

Recommended Action Contact your technical support representative.

Error Message DTP-7-SYNCUPMSG: Port [dec]/[dec] recd [chars] from 2.2x4.4x

Explanation This message indicates the DTP status received by the port and the MAC address of the neighbor port. [dec][dec] is the module number/port number and recd [chars] is the received status.

Recommended Action Contact your technical support representative.

DVLAN Messages

This section contains the switch Dynamic VLAN (DVLAN) messages.

DVLAN-1

Error Message DVLAN-1-DENYHOST: Host [chars] denied on port [dec]/[chars]

Explanation This message indicates the VLAN Membership Policy Server (VMPS) sent a response to deny connectivity to the host. [chars] is the host MAC address, and [dec]/[chars] is the module number/port range.

Recommended Action Check the VMPS database to see why connectivity is denied. If the database information is correct, contact your technical support representative.

Error Message DVLAN-1-DENYHOSTVLAN: Host [chars] denied on port [dec]/[chars] by inactive vlan

Explanation This message indicates that the VLAN assigned by the VMPS is not active in the switch. [chars] is the host MAC address, and [dec]/[chars] is the module number/port range.

Recommended Action Make sure that the VLAN is active, and retry operation. If this message reappears, contact your technical support representative.

Error Message DVLAN-1-DENYHOSTVVID: Host [chars] denied on port [dec]/[dec] as PVID=VVID

Explanation This message indicates that the host is denied on the identified port because the port VLAN ID and the voice VLAN ID are the same. [chars] is the host name, and [dec]/[dec] is the module number/port number.

Recommended Action Correct the VLAN and voice VLAN IDs. If this message reappears, contact your technical support representative.

Error Message DVLAN-1-NOVMPS: VMPS address not configured

Explanation This message indicates that the VMPS server address has not been configured.

Recommended Action Configure the VMPS server address. If this message reappears, contact your technical support representative.

Error Message DVLAN-1-SHUTDOWNPORT1: Port [dec]/[chars] shutdown by VMPS

Explanation This message indicates that the VMPS detects an unknown MAC address on the port and shuts down the port. [dec]/[chars] is the module number/port range.

Recommended Action Remove the unknown host and enable the port. Retry operation. If this message reappears, contact your technical support representative.

Error Message DVLAN-1-SHUTDOWNPORT2: Port [dec]/[chars] shutdown by EARL failure

Explanation This message indicates that a dynamic Enhanced Address Recognition Logic (EARL) entry for a new host cannot be set in EARL because all four pages for the hashed index are full. [dec]/[chars] is the module number/port range.

Recommended Action Enable the port and retry operation. If this message reappears, contact your technical support representative.

Error Message DVLAN-1-SHUTDOWNPORT3: Port [dec]/[chars] shutdown by active host limit

Explanation This message indicates that more than 50 active hosts are detected on a dynamic port. [dec]/[chars] is the module number/port range.

Recommended Action Reduce the active hosts. Enable the port and retry operation. If this message reappears, contact your technical support representative.

Error Message DVLAN-1-SHUTDOWNPORT4: Port [dec]/[chars] shutdown by Internal Vlan

Explanation This message indicates that the port is shut down because the port is an internal VLAN that is reserved for intelligent modules. [dec]/[chars] is the module number/port number.

Recommended Action When you use extended range VLANs, assign data VLANs with values of 4094 or less so that there is not a conflict with the internal VLAN assignment, which uses values of 1025 and greater.

Error Message DVLAN-1-VVIDINVALID: Invalid VVID packet, VMPS should be configured for voice packet mac. mNo [dec] pNo [dec] vvid [dec]

Explanation This message indicates that an invalid voice VLAN ID packet has been received. mNo [dec] is the module number, pNo [dec] is the port number, and vvid [dec] is the voice VLAN ID number.

Recommended Action VMPS should be configured for voice packets.

DVLAN-2

Error Message DVLAN-2-MACNOTRECONFIRMED: Mac [chars] is not reconfirmed

Explanation This message indicates that the MAC address has not been reconfirmed by the system. [chars] is the MAC address.

Recommended Action Check the server configuration. Contact your technical support representative.

DVLAN-3

Error Message DVLAN-3-BINDFAIL: Failed to bind DVLAN socket

Explanation This message indicates that a failure to bind the DVLAN socket has occurred.

Recommended Action Set all the dynamic ports to static, and then try to set them back to dynamic. If unsuccessful, contact your technical support representative.

Error Message DVLAN-3-DOMAININVALID: Invalid-Management-Domain opcode in response

Explanation This message indicates that the management domain name in the VMPS response does not match the VLAN Trunk Protocol (VTP) domain name set in the system.

Recommended Action Correct the domain name either in the database or in the system.

Error Message DVLAN-3-NOCOKIE: Response has no Cookie

Explanation This message indicates that the VMPS response has no cookie.

Recommended Action Check the VMPS server, and then contact your technical support representative.

Error Message DVLAN-3-NORESOURCE: No-Resource opcode in response

Explanation This message indicates that the VMPS responds with no-resource.

Recommended Action Contact your technical support representative.

Error Message DVLAN-3-NOVLAN: Response has no VLAN ID

Explanation This message indicates that the VMPS response has no VLAN name.

Recommended Action Check the VMPS server, and then contact your technical support representative.

Error Message DVLAN-3-RECEIVEFAIL: Failed (err = [dec]) to receive response from VMPS [chars]

Explanation This message indicates that a failure to receive a response from the VMPS has occurred. [dec] is the error number, and [chars] is the VMPS server address.

Recommended Action Contact your technical support representative about the error number displayed in the message.

Error Message DVLAN-3-SENDFAIL: Failed (err = [dec]) to send query to VMPS [chars]

Explanation This message indicates that a failure to send a query to the VMPS has occurred. [dec] is the error number and [chars] is the VMPS address.

Recommended Action Contact your technical support representative about the error number displayed in the message.

Error Message DVLAN-3-SOCKFAIL: Failed to open socket for DVLAN

Explanation This message indicates that a failure to open a socket for DVLAN has occurred.

Recommended Action Set all the dynamic ports to static, and then try to set them back to dynamic. If unsuccessful, contact your technical support representative.

Error Message DVLAN-3-TRAPDIAGFAIL: EARL trap diag failed on supervisor module

Explanation This message indicates that the EARL trap diagnostics have failed. If the EARL trap diagnostics have failed, you cannot set the ports to dynamic.

Recommended Action Enter the **show test** command to check for trap failures. Reset the system. If this message reappears, contact your technical support representative.

Error Message DVLAN-3-TRAPUNSUPPORTED: EARL trap not supported in supervisor module

Explanation This message indicates that an older supervisor engine was installed (hardware version 1.3 or lower) that does not support the trap feature in EARL. You cannot set the ports to dynamic in these modules.

Recommended Action Contact your technical support representative.

Error Message DVLAN-3-VERSIONINVALID: Invalid-Version opcode in response

Explanation This message indicates that the VMPS response has an invalid version number. The VMPS version should be 1.

Recommended Action Contact your technical support representative.

Error Message DVLAN-3-VLANINVALID: Invalid VLAN ID ([chars]) in response

Explanation This message indicates that the VLAN name in the VMPS response is not available in the system. ([chars]) is the VLAN name.

Recommended Action Contact your technical support representative.

DVLAN-4

Error Message DVLAN-4-NODYNPORT: No dynamic ports configured, reconfirm aborted

Explanation This message indicates that the **reconfirm vmps** command was executed, and no dynamic ports were configured.

Recommended Action No action is necessary. This message is provided for information only.

Error Message DVLAN-4-NOHOST: No host on dynamic ports, reconfirm aborted

Explanation This message indicates that the **reconfirm vmps** command was executed, and no active host is connected to the dynamic ports.

Recommended Action No action is necessary. This message is provided for information only.

DVLAN-6

Error Message DVLAN-6-MOVEDHOST: Host [chars] moved from static to dynamic port [dec]/[chars]

Explanation This message indicates that the host has moved from a static port to a dynamic port. [chars] is the host MAC address and [dec]/[chars] is the changed port module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

DVLAN-7

Error Message DVLAN-7-ASSIGNVLAN: VLAN [dec] assigned to Port [dec]/[chars]

Explanation This message indicates that a VLAN was assigned to a dynamic port. [dec] is the VLAN number and [dec]/[chars] is the module number/port range.

Recommended Action No action is necessary. This message is provided for information only.

Error Message DVLAN-7-PRIMARYVMPS: Primary VMPS [chars] is alive

Explanation This message indicates that the switch can communicate with the VMPS server. [chars] is the name of the server.

Recommended Action No action is necessary. This message is provided for information only.

EARL Messages

This section contains the Enhanced Address Recognition Logic (EARL) messages.

EARL-2

Error Message EARL-2-CAM_MON_ABOVE_HITHRESH_SHUT: number of entries [dec] exceeded high threshold of [dec] on [chars] [chars]

Explanation This message indicates that the number of MAC address entries that have been learned by the port, VLAN, or port/VLAN combination have exceeded a user-defined threshold for the Monitor Limit feature by a critical amount. The port, VLAN, or port/VLAN combination shuts down by going into an errdisable state. The first [dec] is the decimal number of MAC addresses in the CAM for this port, VLAN, or port/VLAN combination. The second [dec] is the configured threshold value. The first [chars] is a character string that indicates the port, VLAN, or port/VLAN combination. The second [chars], when present, is the action taken when the threshold is exceeded (for example: warning, no learn, or shutdown).

Recommended Action Reenable the port with the **set port enable** *port* command. Alternatively, you can set a timer to automatically reenable a port after a specified period of time by using the **set errdisable-timeout enable cam-monitor** or **set errdisable-timeout interval** *interval* commands. The *interval* value default is 300 seconds.

Error Message EARL-2-CAM_USAGE: CAM usage is currently [dec]

Explanation This message indicates that the CAM table is full and that the entries are being deleted through the aging process. [dec] is the number of entries in the CAM table.

Recommended Action Contact your technical support representative.

Error Message EARL-2-EARL4LOOKUPRAMERROR: Address [hex], data [hex]-[hex]-[hex]-[hex], count [dec]

Explanation This message indicates that a look-up RAM parity error has been detected. The address [hex] field is the address in the forwarding table where the error was detected. The data [hex]-[hex]-[hex]-[hex] field is the word0, word1, word2, and word3 of RAM data that generated the parity error, and the count [dec] field is the total number of parity errors.

Recommended Action Contact your technical support representative.

Error Message EARL-2-EARL6L2L3_SEQERROR: L2 Seq 1[dec], L3 Seq 1[dec]

Explanation This message indicates that a critical error has occurred and that the EARL has stopped forwarding packets. This message is displayed when the system attempts to recover. The two [dec] values are the sequence numbers that have mismatched.

Recommended Action No action is required unless you see this message every few minutes, or if modules are power cycled repeatedly following the receipt of this message.

EARL-3

Error Message EARL-3-BADCOLOR: Bad color [dec] read from [hex] for a [chars] entry

Explanation This message indicates that the system has learned a MAC address on an invalid VLAN. [dec] is the VLAN number, [hex] is the location, and [chars] is either *static* or *dynamic*.

Recommended Action Contact your technical support representative.

Error Message EARL-3-DELETEVLANTIMER: Failure to remove timer [dec] from vlan [dec]

Explanation This message indicates that the EARL cannot remove the aging timer for this VLAN. Timer [dec] is the timer number, and vlan [dec] is the VLAN number.

Recommended Action Contact your technical support representative.

Error Message EARL-3-EARLDELETE: Earl delete error

Explanation An attempt to delete an EARL entry failed.

Recommended Action Contact your technical support representative.

Error Message EARL-3-L2_RATELIMITER_RECONFIGURE: Layer2 rate limiter [chars] due to change in fabric switching mode

Explanation This message indicates that a user has Layer 2 rate limiters configured and that there are system mode changes between the truncated and nontruncated mode.

Recommended Action No action is necessary. This message is provided for information only.

Error Message EARL-3-L3_PARERR: CentauriInterrupt:L3 parity Error [hex] [hex] [hex]

Explanation This message indicates that the Layer 3 switching engine has seen a parity error in the data from the Layer 3 table. The first [hex] is the count, the second [hex] is the contents of the Layer 3 Parity Error Register 0, and the third [hex] is the contents of the Layer 3 Parity Error Register 1.

Recommended Action If there are multiple occurrences of this message, contact your technical support representative.

Error Message EARL-3-LTL: Failure to set LTL for module [dec]

Explanation This message indicates that the EARL cannot program the Local Targeting Logic (LTL) ASIC on the module. [dec] is the module number.

Recommended Action Contact your technical support representative.

Error Message EARL-3-MC_DBUSLEN: CentauriInterrupt:DBus length error [hex]

Explanation This message indicates that the Layer 3 switching engine has detected a DBus length error. [hex] is the error count.

Recommended Action Contact your technical support representative.

Error Message EARL-3-SETVLANTIMER: Failure to set timer [dec] from vlan [dec]

Explanation This message indicates that the EARL cannot set the aging timer for this VLAN. Timer [dec] is the timer number, and vlan [dec] is the VLAN number.

Recommended Action Contact your technical support representative.

EARL-4

Error Message EARL-4-CAM_MON_ABOVE_HITHRESH: Number of entries [dec] exceeded high threshold of [dec] on [chars] [chars]

Explanation This message indicates that the number of MAC address entries that have been learned by the port, VLAN, or port/VLAN combination have exceeded a user-defined threshold for the Monitor Limit feature. If the administrator has configured Monitor Limit for a warning action, a warning is sent to the user that the high threshold has been exceeded. If the administrator has configured the Monitor Limit to a no learn action, the port, VLAN, or port/VLAN combination will be disabled. The port, VLAN, or port/VLAN combination is reenabled when the MAC address entries fall below the threshold. If both the low and high threshold Monitor Limits are configured for the no learn action, learning will be disabled when the MAC addresses exceed the high threshold but will not be reenabled until the number of MAC addresses falls below the low threshold. The first [dec] is the decimal number of MAC addresses in the CAM for this port, VLAN, or port/VLAN combination. The second [dec] is the configured threshold value. The first [chars] is a character string that indicates the port, VLAN, or port/VLAN combination. The second [chars], when present, is the action taken when the threshold is exceeded (for example: warning, no learn, or shutdown).

Recommended Action No action is necessary. This message is provided for information only.

Error Message EARL-4-CAM_MON_ABOVE_LOWTHRESH: Number of entries [dec] exceeded low threshold of [dec] on [chars] [chars]

Explanation This message indicates that the number of MAC address entries that have been learned by the port, VLAN, or port/VLAN combination have exceeded a user-defined threshold for the Monitor Limit feature. If the administrator has configured Monitor Limit for a warning action, a warning is sent to the user that the high threshold has been exceeded. If the administrator has

configured the Monitor Limit to the no learn action, the port, VLAN, or port/VLAN combination will be disabled. The port, VLAN, or port/VLAN combination is reenabled when the MAC address entries fall below the threshold. If both the low and high threshold Monitor Limits are configured for the no learn action, learning will be disabled when the MAC addresses exceed the high threshold but will not be reenabled until the number of MAC addresses falls below the low threshold. The first [dec] is the decimal number of MAC addresses in the CAM for this port, VLAN, or port/VLAN combination. The second [dec] is the configured threshold value. The first [chars] is a character string that indicates the port, VLAN, or port/VLAN combination. The second [chars], when present, is the action taken when the threshold is exceeded (for example: warning, no learn, or shutdown).

Recommended Action No action is necessary. This message is provided for information only.

Error Message EARL-4-MAC_MOVE: Host [dec] is flapping between port [chars] and port [chars]

Explanation This message indicates that the host with the listed MAC address has moved between two ports. This situation may occur when the switch has been incorrectly configured or when a host has been moved between a pair of ports in the same VLAN. [dec] is the MAC address, the first [chars] is the “from” module and port number, and the second [chars] is the “to” module and port number.

Recommended Action Check the switch configuration and fix any errors.

Error Message EARL-4-MAC_MOVE_COUNTER: Mac move(s) detected

Explanation This message indicates that at least one MAC address has been moved.

Recommended Action Enter the **show cam mac-move-counter** *vlan* command to obtain more information about the MAC addresses that have moved and to make any necessary changes.

Error Message EARL-4-MAC_NOTIF_FAIL: Resource allocation failed, will try during next iteration

Explanation This message indicates that the system is requesting statistical information from the CAM table but it is not receiving any information.

Recommended Action No action is necessary. This message is provided for information only.

EARL-5

Error Message EARL-5-CAM_MON_BELOW_LOWTHRESH: number of entries [dec] dropped below low threshold of [dec] on [chars] [chars]

Explanation This message indicates that the number of MAC address entries that have been learned by the port, VLAN, or port/VLAN combination have dropped below a user-defined low threshold for the Monitor Limit feature. The first [dec] is the decimal number of MAC addresses in the CAM for this port, VLAN, or port/VLAN combination. The second [dec] is the configured threshold

value. The first [chars] is a character string that indicates the port, VLAN, or port/VLAN combination. The second [chars], when present, is the action taken when the threshold is exceeded (for example: warning, no learn, or shutdown).

Recommended Action No action is necessary. This message is provided for information only.

Error Message EARL-5-FDDI: Failed to send CAM message to FDDI module [dec]

Explanation This message indicates that an interprocess message was not sent successfully. This situation can occur under heavy traffic conditions or when a topology change occurs on a system with many VLANs.

Recommended Action No action is necessary. This message is provided for information only.

EARL-6

Error Message EARL-6-CAM_MON_BELOW_HITHRESH: number of entries [dec] dropped below high threshold of [dec] on [chars] [chars]

Explanation This message indicates that the number of MAC address entries that have been learned by the port, VLAN, or port/VLAN combination have dropped below a user-defined high threshold for the Monitor Limit feature. The first [dec] is the decimal number of MAC addresses in the CAM for this port, VLAN, or port/VLAN combination. The second [dec] is the configured threshold value. The first [chars] is a character string that indicates the port, VLAN, or port/VLAN combination. The second [chars], when present, is the action taken when the threshold is exceeded (for example: warning, no learn, or shutdown).

Recommended Action No action is necessary. This message is provided for information only.

Error Message EARL-6-MAC_NOTIF_SLEEP: Process is going to sleep for the next [dec] seconds

Explanation This message indicates that the process for getting statistical information from the CAM table is shutting down for a specified number of seconds, where [dec] is the number of seconds.

Recommended Action No action is necessary. This message is provided for information only.

EARL-7

Error Message EARL-7-MAC_NOTIF_SLEEP: Process is going to sleep for the next [dec] seconds

Explanation The message indicates that the corresponding process will pause for the specified number of seconds. [dec] is the number of seconds the process will pause. This message is for debugging purposes.

Recommended Action No action is necessary. This message is provided for information only.

ELMI Messages

This section contains the Ethernet Local Management Interface (ELMI) messages.

ELMI-3

Error Message ELMI-3-EVC_MISCFG: [char]

Explanation This message indicates that the number of UNIs found per EVC exceed the EVC UNI count configuration. The EVC status that is based on the UNI count will show an incorrect EVC status and could result in traffic loss.

Recommended Action Check the EVC configuration and correct the configured UNI count.

Error Message ELMI-3-INTERNAL_ERROR: Internal software error, [char]

Explanation This message indicates an internal error has occurred when the switch was managing the data structures. The reason for the error is displayed with this message.

Recommended Action Contact your technical support representative.

Error Message ELMI-3-MEM_ERROR: Memory failure in [char]

Explanation This message indicates that there is a memory error. The reason for the error is displayed with this message.

Recommended Action Contact your technical support representative.

Error Message ELMI-3-NULL_TREE: [char]

Explanation This message indicates an error in the internal data structure tree. The reason for the error is displayed with this message.

Recommended Action Contact your technical support representative.

Error Message ELMI-3-RCVD_ERROR: [char]

Explanation This message indicates that the TLVs received in the ELMI messages are not as expected.

Recommended Action Contact your technical support representative.

Error Message ELMI-3-READD_NODE: [char]

Explanation This message indicates an error in the internal data structure tree. The reason for the error is displayed with this message.

Recommended Action Contact your technical support representative.

Error Message ELMI-3-REINIT_TREE: [char]

Explanation This message indicates an error in the internal data structure tree. The reason for the error is displayed with this message.

Recommended Action Contact your technical support representative.

Error Message ELMI-3-REM_NODE: [char]

Explanation This message indicates an error in the internal data structure tree. The reason for the error is displayed with this message.

Recommended Action Contact your technical support representative.

Error Message ELMI-3-SEND_ERROR: [char]

Explanation This message indicates an error in packing or sending the ELMI message to the CE device.

Recommended Action Contact your technical support representative.

Error Message ELMI-3-UNINIT_TREE: [char]

Explanation This message indicates an error in the internal data structure tree. The reason for the error is displayed with this message.

Recommended Action Contact your technical support representative.

EOAM Messages

EOAM-4

Error Message EOAM-4-CRITICALLINKEVENT:[chars] on [dec]/[dec], indicating [chars]

Explanation This message indicates that an OAM critical link event has been detected or received on a given port, along with the event type (Link Fault, Dying Gasp, or Critical Event). The first [chars] is either “detected” or “received,” [dec]/[dec] is the module number/port number, and the second [chars] is the event type.

Recommended Action In the event of a Link Fault, try shutting down the link. If the message continues to appear, contact your technical support representative.

Error Message EOAM-4-LINKFAULT: Received Link Fault on port [dec]/[dec], moving to [chars]

Explanation This message indicates that an OAM-enabled port with an **error-block** action has received an OAM PDU. [dec]/[dec] is the mod/port. [chars] displays either **forwarding** or **blocking**.

Recommended Action Configure the **error-block** action on the forwarding and receiving ports.

EOAM-5

Error Message EOAM-5-LINKEVENT: [chars] [chars] on port [dec]/[dec], indicating [chars]

Explanation This message indicates that an OAM link event has been detected or received on a given port, with event details. The first [chars] is either “detected” or “received,” the second [chars] is the error type, [dec]/[dec] is the module number/port number, and the third [chars] displays the event details.

Recommended Action No action is necessary. This message is provided for information only.

Error Message EOAM-5-LOOPBACK: port [dec]/[dec] has [chars] loopback mode\n

Explanation This message indicates that a port has entered or exited OAM loopback mode. [dec]/[dec] is the module number/port number, and [chars] is the loopback type (for example, local or remote).

Recommended Action No action is necessary. This message is provided for information only.

Error Message EOAM-5-NOTPOINTTOPOINTLINK: port [dec]/[dec] may not be on a point-to-point link\n

Explanation This message indicates that a port did not receive OAMPDUs from the local port. [dec]/[dec] is the module number/port number.

Recommended Action Make sure Ethernet OAM is only enabled on a point-to-point link for the ports.

EOU Messages

This section contains the EAP Over UDP (EOU) messages.

EOU-1

Error Message EOU-1-EOU_NO_RADIUS_SERVER: No RADIUS servers configured

Explanation This message indicates that EOU is enabled and no RADIUS servers are configured.

Recommended Action Determine whether or not a RADIUS server is configured using the **show radius** command. At least one RADIUS server should be configured and active.

EOU-3

Error Message EOU-3-EOU_GROUP_NOT_FOUND: Group [chars] not found. Fail to install policy for IP [chars] and Mac [chars] on [dec]/[dec]

Explanation This message indicates that the policy group sent by the RADIUS server does not exist on the switch. The first [chars] is the policy group name, the second [chars] is the IP address of the host, the third [chars] is the MAC address of the host, the first [dec] is the module number, and the second [dec] is the port number.

Recommended Action Check the switch policy-group configurations. Use the ACL CLI to create the policy group on the switch.

Error Message EOU-3-EOU_SQ_FAIL: EOU: Status query fail for host with IP [chars] and MAC [chars] on port [dec]/[dec]

Explanation Status queries are periodically sent by your switch to the host to check whether the status of the PC has changed after posture validation. This message indicates that the status query has failed because of a posture state change on the host (from the time of the last status query). The switch will trigger a full revalidation of the host. The first [chars] is the IP address, the second [chars] is the MAC address, and [dec]/[dec] is the module/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message EOU-3-EOU_UNKNOWN_EVENT: EOU: Unknown Event received for IP [chars] and Mac [chars]

Explanation This message indicates that an unknown event was received by the host IP state. The first [chars] is the IP address and the second [chars] is the MAC address.

Recommended Action No action is necessary. This message is provided for information only.

Error Message EOU-3-EOU_VERSION_MISMATCH: EOU: EoU version mismatch for host IP [chars] on port [dec]/[dec]

Explanation This message indicates that the EOU version field sent by the host and the current EOU version of the switch do not match, so all EOU packets sent by the host will be dropped. [chars] is the IP address, the first [dec] is the module number, and the second [dec] is the port number.

Recommended Action Check the CTA version.

EOU-5

Error Message EOU-5-EOU_HOST_CRITICAL_AUTHENTICATED: EOU:Port %d/%d, IP %s is moved to critical state

Explanation This message indicates that the EOU authenticated host has been moved to a critical state. [dec]/[dec] is the authenticated module/port number and [chars] is the host IP that has been moved to a critical state.

Recommended Action Check the RADIUS server connectivity when this happens. If the RADIUS server is down, there is no action required.

Error Message EOU-5-EOU_IDLE_HOST_TIMEOUT: The session for host [char] on port [dec]/[dec] is terminated due to idle timeout

Explanation This message indicates that due to inactivity, the host stopped responding to ARP probes, and an idle timeout reinitializes the host.

Recommended Action This is a notification to remove idle hosts from the network. In case of any other behavior, turn off device tracking on the port or globally.

EOU-6

Error Message EOU-6-EOU_AUTH_STATUS_FAIL: Host with IP [chars] and MAC [chars] failed to authenticate on port [dec]/[dec]

Explanation This message indicates that a host's authentication failed. The first [chars] is the IP address of the host, the second [chars] is the MAC address of the host, the first [dec] is the module number, and the second [dec] is the port number.

Recommended Action Check the ACS configuration for user details and check the switch configuration for policies and make any necessary changes.

Error Message EOU-6-EOU_AUTH_STATUS_SUCCESS: Host with IP [chars] and MAC [chars] successful authenticated on port [dec]/[dec]

Explanation This message indicates that a host was successfully authenticated. The first [chars] is the IP address of the host, the second [chars] is the MAC address of the host, the first [dec] is the module number, and the second [dec] is the port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message EOU-6-EOU_AUTHTYPE: EOU: Host with IP [chars] and MAC [chars] on port [dec]/[dec] authenticated using [chars]

Explanation This message indicates which authentication type (EOU, clientless, or exception/static) was used to authenticate the host. The first [chars] is the IP address of the host, the second [chars] is the MAC address of the host, the first [dec] is the module number, the second [dec] is the port number, and the third [chars] is the authentication type.

Recommended Action No action is necessary. This message is provided for information only.

Error Message EOU-6-EOU_BAD_PKT: Bad packet received from IP [chars] and MAC [chars] on port [dec]/[dec]

Explanation This message indicates that a malformed EOU packet has been received (for example, the checksum does not match, invalid length, and so on). The first [chars] is the IP address, the second [chars] is the MAC address, the first [dec] is the module number, and the second [dec] is the port number.

Recommended Action Check the CTA configurations. Make any necessary changes.

Error Message EOU-6-EOU_CTA_DETECT: CTA detected on host with IP [chars] and MAC [chars] on port [dec]/[dec]

Explanation This message indicates that a CTA is detected on a host. The CTA is assumed to be present on a host when the host responds to an EOU identity request validation sent by the switch. The first [chars] is the IP address of the host, the second [chars] is the MAC address of the host, the first [dec] is the module number, and the second [dec] is the port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message EOU-6-EOU_HOST_CRITICAL: EOU:Port [dec]/[dec], IP [chars] is moved to critical state with AAA Fail Policy [chars]

Explanation This message indicates that the host on an EOU enable port was moved to a critical authentication state. [dec]/[dec] is the module/port number, the first [chars] is the IP address of the host, and the second [chars] is the AAA fail policy applied for this port.

Recommended Action Check the RADIUS connectivity to ensure that it is working properly.

Error Message EOU-6-EOU_HOST_CRITICAL_NO_AAAPOLICY: Port [dec]/[dec], IP [char] - AAA Fail Policy is not applied since ACLs with include keyword are configured

Explanation This message indicates the port [mod/port] with an IP [address] could not move to the AAA fail state because the base ACL with the **include** keyword is mapped to the port. The AAA Fail policy and DACL are mutually exclusive. If a port with a configured DACL tries to move to the AAA fail state, the policy mapping also fails.

Recommended Action Remove the policy or the base ACL mapping on the port and do not send a DACL to the port.

Error Message EOU-6-EOU_HOST_EXCEPTION: Exception host [chars] on port [dec]/[dec], installed policy [chars]

Explanation This message indicates that an exception host has been detected. The first [chars] is the name of the exception host, the first [dec] is the module number, the second [dec] is the port number, and the second [chars] is the policy name.

Recommended Action No action is necessary. This message is provided for information only.

Error Message EOU-6-EOU_HOST_POLICY: IP [chars] received policy group [chars] on port [dec]/[dec]

Explanation This message indicates the policy groups received from the RADIUS server as part of a successful clientless authentication or EOU authentication.

Recommended Action No action is necessary. This message is provided for information only.

Error Message EOU-6-EOU_HOST_SESSION: IP [chars] session removed on port [dec]/[dec]

Explanation This message indicates that a host session has been cleared because it was not responding to the ARP probes sent by the switch. The first [chars] is the IP address, the first [dec] is the module number, and the second [dec] is the port number.

Recommended Action Check the CTA availability to respond to ARP probes and make any necessary changes.

Error Message EOU-6-EOU_HOSTNAME: Host [chars] with IP [chars] and Mac [chars] authenticated on [dec]/[dec]

Explanation This message indicates the hostname after a successful authentication. The first [chars] is the host name, the second [chars] is the IP address of the host, the third [chars] is the MAC address of the host, the first [dec] is the module number, and the second [dec] is the port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message EOU-6-EOU_NEW_IP_LEARNNT: New IP [chars] and MAC [chars] seen on port ([dec]/[dec])

Explanation This message indicates that a new IP address has been learned on a port, and a NAC session has been started for the new IP address. The new IP address can be learned from an ARP inspection or DHCP snooping. The first [chars] is the IP address, the second [chars] is the MAC address, the first [dec] is the module number, and the second [dec] is the port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message EOU-6-EOU_NO_APR_REPLY: EOU:Port [dec]/[dec], IP [chars], no reply for ARP requests cleaning up the session

Explanation This message indicates that there is no reply from the host for the ARP request packets and indicates that a particular session is cleared. [dec]/[dec] is the module/port number and [chars] is the IP address of the host that is cleared.

Recommended Action Make sure that the end host is present.

Error Message EOU-6-EOU_POSTURE_TOKEN: Recvd token [chars] for host IP [chars] and MAC [chars] on port [dec]/[dec]

Explanation This message indicates the received posture token attribute from RADIUS. The first [chars] is the received token, the second [chars] is the host IP address, the third [chars] is the MAC address, the first [dec] is the module number, and the second [dec] is the port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message EOU-6-EOU_SQ: Status query of host with IP [chars] and MAC [chars] on port [dec]/[dec]

Explanation This message indicates that a status query was received on a host port. The first [chars] is the IP address, the second [chars] is the MAC address, the first [dec] is the module number, and the second [dec] is the port number.

Recommended Action No action is necessary. This message is provided for information only.

ETHC Messages

This section contains the Ethernet Channel (ETHC) messages.

ETHC-3

Error Message ETHC-3-ONMODEFAIL: Port [dec]/[dec] errdisabled, ON mode attributes mismatch

Explanation This message indicates that a port has been error disabled due to a channel attribute mismatch when the channel mode is set to ON. Normally all channel attributes must be the same for ON-mode channel ports. The first [dec] is the module number and the second [dec] is the port number.

Recommended Action Determine which channel attributes have become mismatched, set them to matching values, and then reenble the port.

ETHC-5

Error Message ETHC-5-ACTIVATEPORT: Port [dec]/[dec] left suspended state (LACP active/passive mode)

Explanation This message indicates that a port that was previously suspended has been reactivated because its operational condition is now compatible with the Link Aggregation Control Protocol (LACP) active and passive mode. [dec]/[dec] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message ETHC-5-LACPDISABLE: LACP disabled on port [dec]/[dec] (half-duplex link)

Explanation This message indicates that the LACP PDU transmission is suppressed, and that if the port is part of a channel and is detached, the port is now operating as a single connection. [dec]/[dec] is the module number/port number.

Recommended Action Either set the port to full duplex or set the channel mode to off for that port. LACP is reenbled automatically when the link is set to full duplex.

Error Message ETHC-5-LACPENABLE: LACP re-enabled on port [dec]/[dec]

Explanation This message indicates that LACP is reenabled on a port. [dec]/[dec] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message ETHC-5-PORTFROMSTP: Port [dec]/[dec] left bridge port [dec]/[chars]

Explanation This message indicates that the physical port was disconnected from the logical port. [dec]/[dec] is the module number/port number, and [dec]/[chars] is the module number/port range.

Recommended Action No action is necessary. This message is provided for information only.

Error Message ETHC-5-PORTTOSTP: Port [dec]/[dec] joined bridge port [dec]/[chars]

Explanation This message indicates that the physical port joined the logical port. [dec]/[dec] is the module number/port number, and [dec]/[chars] is the module number/port range.

Recommended Action No action is necessary. This message is provided for information only.

Error Message ETHC-5-SUSPENDPORT: Port [dec]/[dec] entered suspended state (LACP active/passive mode)

Explanation This message indicates that a port has been suspended (not posted on the spanning tree) because of an operational condition that is not supported by the protocol. [dec]/[dec] is the module number/port number.

Recommended Action Remove the condition that is preventing the protocol from running on the port. If a change to the operational characteristics on the port is not possible, set the channel mode for that port to off.

ETHC-7

Error Message ETHC-7-BADQUEUEMSG: Unknown message in queue [chars]

Explanation This message indicates that the processor received a message it cannot identify. [chars] is the character string of the message.

Recommended Action No action is necessary. This message is provided for information only.

Error Message ETHC-7-INACTIVEVLAN: ([dec]/[dec]) vlan inactive

Explanation This message indicates that the system tried to transmit a packet to a VLAN when the VLAN was not active. ([dec]/[dec]) is the module number/port number.

Recommended Action Verify that the VLAN port setting is correct. If the VLAN port setting is correct, reset the system. If the message recurs, contact your technical support representative.

Error Message ETHC-7-INVALIDPORT: Invalid agportIndex = [dec] (mNo/aNo = [dec]/[dec])

Explanation This message indicates that the agportIndex is out of range. (The logical port is invalid.) [dec] is the index, and ([dec]/[dec]) is the module number/port number.

Recommended Action Contact your technical support representative.

Error Message ETHC-7-NOACTIVEVLAN: Failed to transmit info pdu --- no active vlan ([dec]/[dec])

Explanation This message indicates that the system tried to transmit a packet through a VLAN that was not active. ([dec]/[dec]) is the module number/port number.

Recommended Action Contact your technical support representative.

Error Message ETHC-7-NOMEM: No (SCP) memory for PAgP_Group_Rx process

Explanation This message indicates that the processor is trying to send a message to a module to configure a channel, but the buffer is unexpectedly full.

Recommended Action Reset the system. If the message recurs, contact your technical support representative.

Error Message ETHC-7-PROCFAIL: Failed to create PAgP_Group_Rx process

Explanation This message indicates that the PAgP_Group_Rx process was not created, so channeling is not allowed.

Recommended Action Reset the system. If the message recurs, contact your technical support representative.

Error Message ETHC-7-QFULL: [chars] queue is full

Explanation This message indicates that the message buffer between two processors is full. [chars] identifies the buffer.

Recommended Action Reset the system. If the message reappears, contact your technical support representative.

Error Message ETHC-7-STPDISABLED: Failed to transmit info pdu --- disabled STP ([dec]/[dec])

Explanation This message indicates that spanning tree is disabled and cannot transmit a packet. ([dec]/[dec]) is the module number/port range.

Recommended Action Contact your technical support representative.

Error Message ETHC-7-WAITFORMEM: Wait for successful memory allocation

Explanation This message indicates that the system is trying to dynamically allocate more memory for an operation, but there is insufficient memory left.

Recommended Action Contact your technical support representative.

ETHERCFM Messages

This section contains the Ethernet Connectivity Fault Management (ETHERCFM) messages.

ETHERCFM-3

Error Message ETHERCFM-3-MATCH_REG_ERROR: Cannot set CFM addresses for module [dec]. MVRP is configured

Explanation This message indicates that the CFM addresses cannot be enabled for the module because the MVRP MAC address is already configured in the port ASIC match register of the module and sufficient match registers are not available for programming CFM-related MAC addresses.

Recommended Action Use modules that have a minimum of three match registers for MVRP and CFM. Power down these modules to avoid unnecessary flooding of CFM traffic through the module ports.

ETHERCFM-5

Error Message ETHERCFM-5-SERVER_MEP_AIS_EVT_ENTER: Link-Fault condition detected on port[dec]/[dec], entering into AIS event.

Explanation This message indicates that a fault notification from the link OAM has been received by the AIS server MEP on the port. The server MEP has detected a link defect and has entered into the AIS event state to generate AIS PDUs in the opposite direction of the fault. [dec]/[dec] is the module number/port number.

Recommended Action Restore the link to clear the AIS defect on the server MEP port.

Error Message ETHERCFM-5-SERVER_MEP_AIS_EVT_EXIT: Link-Fault condition cleared on port[dec]/[dec], exiting from AIS event.

Explanation This message indicates that a link fault has been cleared on the affected port and the server MEP has exited from the AIS defect event. There is no failure in the active data path of the network with respect to the port. [dec]/[dec] is the module number/port number.

Recommended Action No action is required. This message is provided for information only.

Error Message ETHERCFM-5-LOCAL_MEP_AIS_EVT_ENTER: AIS fault condition detected on [chars]down mep [dec]/[dec] mpid [dec] level [dec] vlan [dec].

Explanation This message indicates that the local MEP at level [dec] and vlan [dec] has received an AIS notification PDU from the relay/wire side that there is a link failure in the active path on the peer side of the remote MEP. The local MEP has entered into an AIS defect condition and has propagated a path failure notification to the next higher level local MEPs in the network by transmitting an AIS PDU. [dec]/[dec] is the module number/port number. [chars] is a character string that indicates the direction of the MEP.

Recommended Action Identify and repair the link fault condition in the network so that the server MEP AIS condition is cleared on the faulty port.

Error Message ETHERCFM-5-LOCAL_MEP_AIS_EVT_EXIT: AIS fault condition cleared on down mep [dec]/[dec] mpid [dec] level [dec] vlan [dec].

Explanation This message provides an indication to the local MEP at level [dec] and vlan [dec] that a link failure in the active path on the peer side of the remote MEP has been restored. The local MEP has not received the AIS PDUs from the server MEP within an interval of 3.5 times the AIS transmission period. The local MEP has exited from the AIS defect condition and has stopped generating the AIS PDUs to the next higher level MEPs in the network. [dec]/[dec] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message ETHERCFM-5-UNI_STATUS_CHANGE_EVT: UNI status for local mep on [dec/dec] mpid [dec] in level [dec] vlan [dec] changed to [char]

Explanation This message indicates that the operational status of the port that has a local MEP at level [dec], vlan [dec], and mpid [dec] changes from Up to Down or is administratively down and changes from Down to Up or is administratively up. The message is generated for the Up (inward) MEPs and not for the Down (outward) MEPs.

Recommended Action No action is necessary. This message is provided for information only.

Error Message ETHERCFM-5-UNI_STPSTATUS_CHANGE_EVT: UNI Spanning Tree state for local mep [dec/dec] mpid [dec] in level [dec] vlan [dec] changed to [char]

Explanation This message indicates that the Spanning Tree status of the port that has a local MEP at level [dec], vlan [dec], and mpid [dec] changes from Forwarding to Blocking and Blocking to Forwarding. This message is generated for the Up (inward) MEPs and not for the Down (outward) MEPs.

Recommended Action No action is necessary. This message is provided for information only.

FILESYS Messages

This section contains the Flash file system (FILESYS) messages.

FILESYS-1

Error Message FILESYS-1-BT_REFMT: Bootflash size mismatch with file system

Explanation This message indicates that there was a boot Flash file system configuration error.

Recommended Action Format the boot Flash file.

Error Message FILESYS-1-PC_INSERT: PCMCIA flash card inserted into [chars]

Explanation This message indicates that a Flash PC card was inserted into a slot. [chars] is slot 0 or slot 1.

Recommended Action No action is necessary. This message is provided for information only.

Error Message FILESYS-1-PC_REMOVE: PCMCIA flash card removed from [chars]

Explanation This message indicates that a Flash PC card was removed from a slot. [chars] is slot 0 or slot 1.

Recommended Action No action is necessary. This message is provided for information only.

Error Message FILESYS-1-PCMCIA_INSERT: PCMCIA flash card inserted in [chars]

Explanation This message indicates that a Flash PC card was inserted into a slot. [chars] is slot 0 or slot 1.

Recommended Action No action is necessary. This message is provided for information only.

Error Message FILESYS-1-PCMCIA_REMOVE: PCMCIA flash card removed from [chars]

Explanation This message indicates that a Flash PC card was removed from a slot. [chars] is slot 0 or slot 1.

Recommended Action No action is necessary. This message is provided for information only.

GL2PT Messages

This section lists the Generic Layer 2 Protocol Tunneling (GL2PT) messages.

GL2PT-3

Error Message GL2PT-3-CDPTHRESHOLDEXCEEDDROP: CDP PDU rate on tunneling port [dec]/[dec] exceeded CDP drop threshold. PDU(s) dropped.

Explanation This message indicates that the CDP protocol data unit (PDU) rate on the tunneling port has exceeded the drop threshold value and that PDUs are now being dropped. [dec]/[dec] is the module number/port number.

Recommended Action Either increase the CDP drop threshold on the port or decrease the incoming PDU rate.

Error Message GL2PT-3-INGRESSSELFLOOP: Tunneling port [dec]/[dec] received a tunneled PDU. Port disabled.

Explanation This message indicates that a tunneled PDU has been received on a tunneling port. The tunneling port has received an L2PT encapsulated PDU because of either a loop or some other misconfiguration in the switch or ISP switch. The port is disabled. [dec]/[dec] is the module number/port number.

Recommended Action Check the configuration to make sure that there is no loop for the encapsulated PDU. Contact your technical support representative if the problem persists.

Error Message GL2PT-3-STPTHRESHOLDEXCEEDDROP: STP PDU rate on tunneling port [dec]/[dec] exceeded STP drop threshold. PDU(s) dropped.

Explanation This message indicates that the STP protocol data unit (PDU) rate on the tunneling port has exceeded the drop threshold value and that PDUs are now being dropped. [dec]/[dec] is the module number/port number.

Recommended Action Either increase the STP drop threshold on the port or decrease the incoming PDU rate.

Error Message GL2PT-3-VTPPTHRESHOLDEXCEEDDROP: VTP PDU rate on tunneling port [dec]/[dec] exceeded VTP drop threshold. PDU(s) dropped.

Explanation This message indicates that the VTP protocol data unit (PDU) rate on the tunneling port has exceeded the drop threshold value and that PDUs are now being dropped. [dec]/[dec] is the module number/port number.

Recommended Action Either increase the VTP drop threshold on the port or decrease the incoming PDU rate.

GL2PT-5

Error Message GL2PT-5-CDPTHRESHOLDEXCEEDDISABLE: CDP PDU rate on tunneling port [dec]/[dec] exceeded CDP shutdown threshold. Port disabled.

Explanation This message indicates that the CDP PDU rate on the tunneling port has exceeded the port CDP shutdown threshold and that the port has been disabled. [dec]/[dec] is the module number/port number.

Recommended Action Either increase the shutdown threshold on the port or decrease the incoming CDP PDU rate. After you configure the proper threshold values, the port needs to be reenabled. Contact your technical support representative if the problem is not resolved.

Error Message GL2PT-5-EOAMTHRESHOLDEXCEEDDISABLE: EOAM PDU rate on tunneling port [dec]/[dec] exceeded EOAM shutdown threshold. Port disabled.

Explanation This message indicates that the EOAM PDU rate on the tunneling port has exceeded the port EOAM shutdown threshold and that the port has been disabled. [dec]/[dec] is the module number/port number.

Recommended Action Either increase the shutdown threshold on the port or decrease the incoming EOAM PDU rate. After you configure the proper threshold values, the port needs to be reenabled. Contact your technical support representative if the problem is not resolved.

Error Message GL2PT-5-STPTHRESHOLDEXCEEDDISABLE: STP PDU rate on tunneling port [dec]/[dec] exceeded STP shutdown threshold. Port disabled.

Explanation This message indicates that the STP PDU rate on the tunneling port has exceeded the port STP shutdown threshold and that the port has been disabled. [dec]/[dec] is the module number/port number.

Recommended Action Either increase the shutdown threshold on the port or decrease the incoming STP PDU rate. After you configure the proper threshold values, the port needs to be reenabled. Contact your technical support representative if the problem is not resolved.

Error Message GL2PT-5-THRESHOLDEXCEEDDISABLE: PDU rate on tunneling port [dec]/[dec] exceeded shutdown threshold. Port disabled.

Explanation This message indicates that the PDU rate on the tunneling port has exceeded the port shutdown threshold and that the port has been disabled. [dec]/[dec] is the module number/port number.

Recommended Action Either increase the shutdown threshold on the port or decrease the incoming PDU rate. After you configure the proper threshold values, the port needs to be reenabled. Contact your technical support representative if the problem is not resolved.

Error Message GL2PT-5-VTPTHRESHOLDEXCEEDDISABLE: VTP PDU rate on tunneling port [dec]/[dec] exceeded VTP shutdown threshold. Port disabled.

Explanation This message indicates that the VTP PDU rate on the tunneling port has exceeded the port VTP shutdown threshold and that the port has been disabled. [dec]/[dec] is the module number/port number.

Recommended Action Either increase the shutdown threshold on the port or decrease the incoming VTP PDU rate. After you configure the proper threshold values, the port needs to be reenabled. Contact your technical support representative if the problem is not resolved.

GL2PT-6

Error Message GL2PT-6-EOAMTHRESHOLDEXCEEDDROP: EOAM PDU rate on tunneling port [dec]/[dec] exceeded EOAM drop threshold. PDU(s) dropped.

Explanation This message indicates that the EOAM protocol data unit (PDU) rate on the tunneling port has exceeded the drop threshold value and that PDUs are now being dropped. [dec]/[dec] is the module number/port number.

Recommended Action Either increase the EOAM drop threshold on the port or decrease the incoming PDU rate.

Error Message GL2PT-6-THRESHOLDEXCEEDDROP: PDU rate on tunneling port [dec]/[dec] exceeded drop threshold. PDU(s) dropped.

Explanation This message indicates that the PDU rate on the tunneling port has exceeded the drop threshold value and that PDUs are now being dropped. [dec]/[dec] is the module number/port number.

Recommended Action Either increase the drop threshold on the port or decrease the incoming PDU rate.

GVRP Messages

This section lists the GARP VLAN Registration Protocol (GVRP) messages.

GVRP-0

Error Message GVRP-0-NOMBUF: no mbuf to [chars]

Explanation This message indicates that GVRP failed to notify VTP when a VLAN was created or deleted. The problem occurred when VTP ran out of message buffer space. [chars] indicates the message body.

Recommended Action Reinitialize the VTP configuration by toggling between VTP server mode and transparent mode. If the problem persists, you might need to reset or power cycle the switch.

GVRP-2

Error Message GVRP-2-DISABLEDYNVLANCREATE: Disable dynamic VLAN creation temporarily since non-dot1q or non-GVRP trunk [dec]/[dec] exists

Explanation This message indicates that there is at least one non-dot1q or non-GVRP trunk existing on the switch. GVRP will temporarily disable the dynamic VLAN creation, even though the dynamic VLAN creation is configured as enabled. [dec]/[dec] is the first non-dot1q trunk module/port detected by GVRP.

Recommended Action Either disable dynamic VLAN creation or configure all trunk ports to dot1q.

Error Message GVRP-2-RESUMEDYNVLANCREATE: Resume dynamic vlan creation since the last non-dot1q or non-GVRP trunk [dec]/[dec] is removed

Explanation This message indicates that GVRP detects that all trunk ports are dot1q or GVRP. GVRP resumes dynamic VLAN creation if dynamic VLAN creation is enabled on the switch. [dec]/[dec] is the last disappearing non-dot1q trunk module and port detected by GVRP.

Recommended Action No action is necessary. This message is provided for information only.

GVRP-3

Error Message GVRP-3-CREATEPROCESSFAILED: Failed to create GVRP process

Explanation This message indicates that the GVRP process was not completed successfully when the system was initialized or the GVRP was set to enabled. The switch may have encountered resource allocation problems.

Recommended Action Disable GVRP on the switch, and then retry it later when the system is more stable. If the problem recurs, you might need to reset or power cycle the switch.

Error Message GVRP-3-CREATEVLANNONETHERNET: cannot create non-Ethernet VLAN [dec]

Explanation This message indicates that a received GVRP join message contains a new VLAN number that is not an Ethernet VLAN currently existing on the switch. [dec] is the non-Ethernet VLAN number.

Recommended Action You must either reassign the VLAN number to an Ethernet or correct the VLAN configuration on the peer side of the GVRP device for VLAN consistency.

Error Message GVRP-3-CREATEVLANNOTALLOWED: Dynamically adding VLAN [dec] not allowed

Explanation This message indicates that a received GVRP join message contains a new VLAN number that is not allowed because dynamic VLAN creation is not enabled on the switch. [dec] is the new VLAN number.

Recommended Action You must enable the dynamic VLAN creation so that the new VLAN can be added to the switch.

Error Message GVRP-3-CREATEVLANSUSPENDED: cannot create suspended VLAN [dec]

Explanation This message indicates that a received GVRP join message contains a new VLAN number that is already suspended on the switch. [dec] indicates the suspended VLAN number.

Recommended Action You can remove the suspended VLAN to allow it to be dynamically recreated or you can reactivate the suspended VLAN.

Error Message GVRP-3-DELETEVLANNONEXISTING: cannot delete or withdraw non-existing VLAN [dec]

Explanation This message indicates that the VLAN to be deleted or withdrawn by the GVRP or VLAN configuration does not exist. No VLAN deletion is required for GVRP. [dec] is the non-existent VLAN number.

Recommended Action You must specify a valid VLAN number.

Error Message GVRP-3-LOSTTRUNKEVT: TRUNK creation/deletion event lost for TRUNK [dec]/[dec]

Explanation This message indicates that VTP does not receive the request sent by GVRP because the VTP queue is full or the VTP task is not running. [dec]/[dec] is the module number/port number.

Recommended Action Contact your technical support representative.

Error Message GVRP-3-LOSTVLANEVT: vlan creation/deletion event lost for vlan [dec]

Explanation This message indicates that a received GVRP join message contains a new VLAN number that needs to be created dynamically and GVRP failed to notify VTP for the VLAN creation. The error can also occur when GVRP wants to delete a VLAN and fails to notify VTP about the deletion. The problem occurs when the VTP message queue is full. [dec] is the new VLAN number.

Recommended Action Reinitialize the VTP configuration by toggling between VTP server mode and transparent mode. If the problem persists, you might need to reset or power cycle the switch.

Error Message GVRP-3-RECVNONGVRPTRUNK: drop GVRP PDU received on non-GVRP port [dec] / [dec]

Explanation This message indicates that a GVRP protocol data unit (PDU) frame received from a GVRP-disabled port was dropped because the port was not running GVRP. [dec]/[dec] is the module number/port number that received the GVRP PDU frame.

Recommended Action Check the peer side of the GVRP device for consistent GVRP configuration. Either set the module/port to GVRP enable or set the peer side to GVRP disabled.

Error Message GVRP-3-RECVVTPGVRPTRUNK: Drop VTP PDU received on GVRP port [dec] / [dec]

Explanation This message indicates that a VTP message was received on a GVRP trunk and that the message was dropped because of a misconfiguration between the switches (one switch configured as VTP and the other switch configured as GVRP). [dec]/[dec] is the module number/port number.

Recommended Action Configure the same type of trunk (GVRP or VTP) on all connected ports.

IP Messages

This section contains the IP messages.

IP-3

Error Message IP-3-DUPIPADDR: Duplicate IP address [chars] sent from MAC address: [chars]

Explanation This message indicates that the system has received an ARP request or a reply with the source IP address that is the same as the NMP IP address. The first [chars] is the IP address in dotted decimal format, and the second [chars] is the Ethernet MAC address in canonical format.

Recommended Action Check for possible duplicate IP address assignments within the NMP management VLAN.

Error Message IP-3-DUPIPADDR_TR: Duplicate IP address [chars] sent from MAC address: [chars] ([chars])

Explanation This message indicates that the system has received an ARP request or a reply with the source IP address that is the same as the NMP IP address. The first [chars] is the IP address in dotted decimal format, the second [chars] is the Token Ring MAC address in canonical format, and the third [chars] is the Token Ring MAC address in non-canonical format.

Recommended Action Check for possible duplicate IP address assignments within the NMP management VLAN.

Error Message IP-3-TCP_BADCKSUM:TCP bad checksum

Explanation This message indicates that the system has received a TCP packet with a bad checksum from another device on the administrative VLAN. The packet will be discarded.

Recommended Action No action is necessary. This message is provided for information only.

Error Message IP-3-TCP_SOCKOVFL: TCP socket [dec] overflow

Explanation This message indicates that all buffers for a TCP socket on the NMP have been consumed due to excessive TCP traffic on the administrative VLAN. [dec] is the socket number.

Recommended Action You should remove or block the source of the TCP packets to prevent further TCP packet loss.

Error Message IP-3-UDP_BADCKSUM: UDP bad checksum

Explanation This message indicates that the system has received a UDP packet with a bad checksum on the administrative VLAN from another device. The packet will be discarded.

Recommended Action No action is necessary. This message is provided for information only.

IP-4

Error Message IP-4-PERMITFAIL: Unauthorized [chars] access attempt from [chars]

Explanation This message indicates an unauthorized access was attempted. The first [chars] is the access type, currently Telnet or SNMP, and the second [chars] is the IP address where the unauthorized attempt was made.

Recommended Action Retry access. If this message reappears, contact your technical support representative.

IP-6

Error Message IP-6-UDP_SOCKOVFL: UDP socket overflow from Source IP:[chars], Destination port:[dec]

Explanation This message indicates that all buffers for a UDP socket on the Network Management Processor (NMP) have filled up due to excessive UDP traffic on the administrative VLAN and cannot store additional traffic. [chars] is the source IP address and [dec] is the destination port number.

Recommended Action Remove or block the source of the UDP packets to prevent further UDP packet loss.

KERNEL Messages

This section contains the kernel (KERNEL) messages.

**Note**

Kernel messages do not indicate a problem with system performance but should be reported to your technical support representative.

KERNEL-0

Error Message `KERNEL-0-SLEEPFROMINT: sleep() called from Interrupt context.`

Explanation This is a debug message for Cisco development purposes.

Recommended Action Contact your technical support representative.

Error Message `KERNEL-0-SLEEPFROMKER: sleep() called from Kernel context.`

Explanation This is a debug message for Cisco development purposes.

Recommended Action Contact your technical support representative.

KERNEL-1

Error Message `KERNEL-1-CHECKSTACK: stk-ahrt [chars],sp: %08x size: 0x%04x`

Explanation This is a debug message for Cisco development purposes. [chars] is the stk-ahrt message.

Recommended Action Contact your technical support representative.

Error Message `KERNEL-1-CREATEPROCESSFAILED: Error in creating process: [chars]; stack type: [dec]; Name: [chars]`

Explanation This message indicates that the create process has failed; the system is out of processes. The Catalyst operating system allows a limited number of processes based on the number of stacks available. When stacks are unavailable, this message is generated. The first [chars] is the process ID, the [dec] is the stack type, and the second [chars] is the process name.

Recommended Action Contact your technical support representative.

Error Message KERNEL-1-WARNDISPATCH: Task [chars] pid = [dec] ran for [dec] ms, time allowed = [dec] ms

Explanation This message indicates that a process is being run for more than the allowed time. [chars] is the task name, the first [dec] is the process number, the second [dec] is the time the process ran in milliseconds, and the third [dec] is the time allowed in milliseconds.

Recommended Action Contact your technical support representative.

KERNEL-4

Error Message KERNEL-4-PDELAYFROMKER: pdelay () called from Kernel context.

Explanation This message indicates that a function is calling a kernel utility from the kernel context.

Recommended Action Contact your technical support representative.

Error Message KERNEL-4-YLDCPUFROMKER: yield_cpu() called from Kernel context.

Explanation This is a debug message for Cisco development purposes.

Recommended Action Contact your technical support representative.

KERNEL-5

Error Message KERNEL-5-DONTLOOKUPBIT: DONT LOOKUP BIT found: pid=[dec]/[chars]/[hex]

Explanation This message indicates that the DONTLOOKUPBIT condition is set in the inband packet transmission. [dec] is the frame length, [chars] is the process ID name, and [hex] is the task ID.

Recommended Action Contact your technical support representative.

Error Message KERNEL-5-UNALIGNACCESS: Alignment correction made at 0x%08X [chars]ing 0x%08X

Explanation This is a debug message for Cisco development purposes.

Recommended Action No action is necessary. This message is provided for information only.

LD Messages

This section contains the LocalDirector (LD) messages.

LD-3

Error Message LD-3-LDACOMMITFAIL: Failed to Commit Local Director Accelerator

Explanation This message indicates that the LocalDirector Accelerator, which is now referred to as accelerated server load balancing (ASLB), was not committed to the hardware. This message is displayed only at startup.

Recommended Action No action is necessary. This message is provided for information only.

LD-5

Error Message LD-5-LDHWDNORLSD: Hardware resources not completely freed

Explanation This message indicates that some hardware resources that were allocated for ASLB purposes were not freed. Possible resources include a VLAN Access Control List (VACL) that has not been deallocated, a CAM table not cleared of LD entries, or full-flow mode that has not been switched to destination-only mode.

Recommended Action No action is necessary. This message is provided for information only.

MACAUTH SECURITY Messages

This section describes the MAC Authentication messages for QoS and security ACL binding.

QoS ACL

This section lists the MACAUTH QoS ACL binding error messages:

Error Message SECURITY-3-MACAUTH_QOS_VACL_ERRMSG: Failed to attach/detach QoS Policy [dec] on vlan [chars]. Error returned - [message]

Error Message SECURITY-3-MACAUTH_QOS_PACL_ERRMSG: Failed to attach/detach QoS Policy [chars] on port [mod/port]. Error returned - [message]

The following [message] variables could be displayed:

Error Message QoS is disabled

Recommended Action Enable QoS.

Error Message Invalid Argument specified

Recommended Action Contact your technical support representative if the mapping fails with an unknown error.

Error Message QoS ACL not found

Recommended Action Verify if the QoS ACL is configured on the switch. Contact your technical support representative with the output of the **show qos acl** command and the list of VSAs sent from the ACS for the current user.

Error Message Non-IP type QoS Acl received

Recommended Action Verify if the QoS ACL configured on the switch is an IP ACL. Contact your technical support representative with the output of the **show qos acl** command and the list of VSAs sent from the ACS for the current user.

Error Message QoS ACL is not committed to tcam

Recommended Action Verify if the QoS ACL configured on the switch is committed to TCAM, and enter the **commit qos acl all** command. If the same error is displayed again, contact your technical support representative with the output of the **show qos acl editbuffer** command and the list of VSAs sent from the ACS for the current user.

Error Message Invalid Vlan Specified

Recommended Action Verify if the VLAN sent from the ACS for the current user is configured on the switch. Contact your technical support representative with the output of the **show vlan** and **show pvlan** command and the VLAN number sent from the ACS for the current user.

Error Message Hardware not Supported

Recommended Action Contact your technical support representative.

Error Message Cops is enabled on the port.

Recommended Action Remove the COPS roles configured on the port by entering the **clear port cops mod/port all-roles** command. Contact your technical support representative if the same error is displayed again.

Error Message Specified QoS policy already Exists

Recommended Action No action is necessary. Contact your technical support representative if this message appears repeatedly.

Error Message QoS task is not ready

Recommended Action Retry authentication after a few seconds. Contact your technical support representative if this message repeatedly appears.

Error Message Port is in QoS PortBased mode

Recommended Action Verify if the ACL sent from the ACS is **qos:pacl=aclname** or change the port mode to VLAN-based using the **set port qos mod/port vlan-based** command. If the message appears again, contact your technical support representative with the output of the **show port qos mod/port** command and the list of VSAs sent from the ACS for the current user.

Error Message Different QoS Acl is attached.

Recommended Action Remove any statically mapped QoS ACLs using the **clear qos acl map mod/port** command or **clear qos acl map vlan** command. Contact your technical support representative if this message repeatedly appears.

Error Message Port is in QoS VlanBased mode

Recommended Action Verify if the ACL sent from the ACS is **qos:vacl=aclname** or change the port mode to port-based using the **set port qos mod/port port-based** command. If the message appears again, contact your technical support representative with the output of the **show port qos mod/port** command and the list of VSAs sent from the ACS for the current user.

Error Message No acl is attached to Port.

Recommended Action No action is necessary. Contact your technical support representative if this message repeatedly appears.

SECURITY ACL

This section lists the MACAUTH SECURITY ACL binding error messages:

Error Message SECURITY-3-MACAUTH_SEC_PACL_ERRMSG: Failed to attach/detach Security Acl [chars] on port [mod/port]. Error returned - [message]

Error Message SECURITY-3-MACAUTH_SEC_VACL_ERRMSG: Failed to attach/detach Security Acl [dec] on vlan [chars]. Error returned - [message]

The following [message] variables could be displayed:

Error Message Different Security Acl mapped

Recommended Action Clear any statically mapped security ACL on the port using the **clear security-acl map** *mod/port* command or **clear security-acl map** *vlan* command.

Error Message Failure

Recommended Action Contact your technical support representative if mapping fails with any unknown error.

Error Message Hardware not supported

Recommended Action Contact your technical support representative.

Error Message IP-Source-Guard is enabled

Recommended Action Disable IP Source Guard if it is enabled on the port.

Error Message Local Directory Mapping Exists

Recommended Action Contact your technical support representative if mapping fails with this error.

Error Message No Security Acl Mapping for vlan/port defined

Explanation This message indicates that the dynamic mapping has already been cleared.

Recommended Action No action is necessary.

Error Message Port is in Port-based mode

Recommended Action Verify if the ACL sent from the ACS is the **ip:pacl=aclname** command or change the port mode to VLAN-based using the **set port security-acl mod/port vlan-based** command. If the message appears again, contact your technical support representative with the output of the **show port security-acl mod/port** command and the list of VSAs sent from the ACS for the current user.

Error Message Port is in Vlan-based mode

Recommended Action Verify if the ACL sent from the ACS is the **ip:vacl=aclname** command or change the port mode to port-based using the **set port security-acl mod/port port-base** command. If the message appears again, contact your technical support representative with the output of the **show port security-acl mod/port** command and the list of VSAs sent from the ACS for the current user.

Error Message Security Acl is not committed to tcam

Recommended Action Verify if the security ACL configured on the switch is committed to TCAM. Enter the **commit security acl all** command. If the same error is displayed again, contact your technical support representative with the output of the **show security acl editbuffer** command and the list of VSAs sent from the ACS for the current user.

Error Message Security Acl not found

Recommended Action Verify if the security ACL is configured on the switch. Contact your technical support representative with the output of the **show security acl** command and the list of VSAs sent from the ACS for the current user.

Error Message Security Acl not found [or] Non-IP Security Acl specified

Recommended Action Verify if the security ACL sent by the ACS is configured on the switch as an IP ACL. Contact your technical support representative with the output of the **show security acl** command and the list of VSAs sent from the ACS for the current user.

Error Message Vlan does not exist [or] Invalid Vlan or Port is in different Vlan

Recommended Action Verify if the VLAN sent from the ACS for the current user is configured on the switch. Contact your technical support representative with the output of the **show vlan** command, output of the **show pvlan** command, and the VLAN number sent from the ACS for the current user.

MCAST Messages

This section contains the multicast (MCAST) messages including the Cisco Group Management Protocol (CGMP)/Internet Group Management Protocol (IGMP) messages and GARP Multicast Registration Protocol (GMRP) messages.

MCAST-2

Error Message MCAST-2-ADDGDAFAIL: EARL add failed for GDA [chars] in vlan [dec]

Explanation This message indicates that IGMP snooping is unable to add an entry to the Enhanced Address Recognition Logic (EARL) 2 table. [chars] is the entry value and [dec] is the VLAN number.

Recommended Action Contact your technical support representative.

Error Message MCAST-2-IGMP_ADDRAL: IGMP: Address Aliasing for [chars]

Explanation This message indicates that the Network Management Processor (NMP) detects a multicast data stream that is being directed to a special multicast address. Several special class D addresses are used exclusively for control purposes by the multicast protocols specifically: IGMP,

DVMRP, MOSPF, and PIM. Noncontrol packets targeted to these addresses is considered address aliasing. When the system detects 50 of these packets on one of these addresses, this message is generated. This message is generated three times before disabling the IGMP snooping feature. [chars] is one of the following multicast addresses, which is causing the address aliasing to occur:

```
01-00-5e-00-00-01
01-00-5e-00-00-04
01-00-5e-00-00-05
01-00-5e-00-00-06
01-00-5e-00-00-0d
```

Recommended Action Check and isolate the host that is generating this type of multicast traffic. Verify which address is getting aliased; try not to use it for the multicast data feed.

Error Message MCAST-2-IGMP_FALLBACK: IGMP: Running in FALL BACK mode

Explanation This message indicates that the NMP detects a multicast data stream that disabled the protocol redirection escape logic and is directed to one of the following special multicast addresses:

```
01-00-5e-00-00-01
01-00-5e-00-00-04
01-00-5e-00-00-05
01-00-5e-00-00-06
01-00-5e-00-00-0d
```

Recommended Action Check and isolate the host that is generating this type of multicast traffic. Verify which address is getting aliased; try not to use this address for the multicast data feed.

Error Message MCAST-2-IGMP_FALLBACKPERM: IGMP: Changed to FALL BACK permanently

Explanation This message indicates that the NMP detects a multicast stream that disabled the protocol redirection escape logic and is aliased to one of the following special multicast addresses:

```
01-00-5e-00-00-01
01-00-5e-00-00-04
01-00-5e-00-00-05
01-00-5e-00-00-06
01-00-5e-00-00-0d
```

Recommended Action Check and isolate the host that is generating this type of multicast traffic. Reset the switch, or disable and reenale the IGMP snooping feature.

Error Message MCAST-2-IGMP_RATELIMITER: IGMP: Higher WaterMark reached for [chars]-[chars]. Rate limiting it for 30 seconds

Explanation This message indicates that the IGMP snooping rate-limiting feature has detected that the control plane rate has exceeded the configured watermark value. This feature rate-limits the control plane addresses of multicast and protects NMP. The first [chars] identifies the control plane address and the second [chars] identifies the control plane protocol name.

Recommended Action Contact your technical support representative.

Error Message MCAST-2-IGMPV3_BADPKT: IGMPV3: No of bad packets received ([chars]) = [dec]

Explanation This message indicates that a bad packet has been received on a port. [chars] is the reason for the bad packet, and [dec] is the module number.

Recommended Action Contact your technical support representative.

Error Message MCAST-2-IGMPV3_DISABLED: IGMPV3: Disabling IGMPV3 processing since MMLS was enabled on MSFC

Explanation This message indicates that IGMPV3 processing is disabled when MMLS is enabled on the MSFC.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MCAST-2-IGMPV3_ENABLED: IGMPV3: Enabling IGMPV3 processing

Explanation This message indicates that IGMPV3 processing has been enabled when MMLS is disabled on the MSFC.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MCAST-2-MAXGDALIMIT: No. of Multicast entries has reached the max [dec]

Explanation This message indicates that the number of multicast entries has reached the maximum limit. [dec] is 15488, which is the maximum number of multicast entries. No new entries will be created.

Recommended Action Make sure no more than 15488 groups are used. Contact your technical support representative.

MCAST-4

Error Message MCAST-4-IGMP_BADPKT: IGMP: No of Packets received with [chars] in last 5 minutes = [dec]

Explanation This message indicates that the system has received a number of bad packets within the last 5 minutes. [chars] is the bad packet condition and [dec] is the bad packet count.

Recommended Action Contact your technical support representative.

Error Message MCAST-4-IGMP_PKT_DROPPED: IGMP: IGMP Queue full (high packet rate/CPU busy), dropped packet

Explanation This message indicates that the IGMP queue dropped a packet. Either the queue was full due to a high packet rate or the CPU was busy.

Recommended Action Contact your technical support representative.

Error Message MCAST-4-IGMPV3_BADPKT: IGMPV3: Rcvd bad packet [chars] on [dec]/[dec]

Explanation This message indicates that a bad packet has been received on a port. [chars] is the reason for the bad packet, and [dec]/[dec] is the module number and port number.

Recommended Action Contact your technical support representative.

Error Message MCAST-4-IGMPV3_EXCLUDE_RECORD: Received [dec] IGMP v3 EXCLUDE Group Records. Last received from [dec]/[dec]. Treated them as IGMP v2 Reports.

Explanation This message indicates that hosts are sending EXCLUDE-mode group records in their IGMP v3 reports that are not supported by IGMP v3 snooping. The IGMP v3 reports will be processed as IGMP v2 reports, and important IGMP v3 report data will be lost. The first [dec] is the number of IGMP v3 EXCLUDE group records, the second [dec] is the module number, and the third [dec] is the port number.

Recommended Action Disable IGMP v3 processing on the switch side with the **set igmp v3-processing disable** command, or configure the hosts not to send EXCLUDE-mode messages.

Error Message MCAST-4-IGMPV3_LTL_FAILURE: LTL allocation failure. Deleting V3 States for Group-[chars] in VLAN-[dec]\n)

Explanation This message indicates that an IGMP-V3 snooping is enabled on a switch that is running software version 8.3(2) or above, and IGMP snooping has insufficient system resources to create an IGMP-V3 forwarding entry for a given source and its group in a particular VLAN. The IGMP-V3 group with other sources in that VLAN will fall back to IGMP-V2 snooping. [chars] is the group name, and [dec] is the VLAN number.

Recommended Action Contact your technical support representative.

Error Message MCAST-4-MCAST_RATELIMITER: Threshold rate of [dec] pps exceeded. Ratelimiting vlan-[dec] for [dec] seconds

Explanation This message indicates that the configured threshold rate of the multicast control packets has been exceeded and the VLAN with the highest rate of packets received will be rate limited. In addition, if the same VLAN is detected as having the rate of packets received for consecutive intervals, the VLAN will be rate limited for a longer period of time. The first [dec] is the threshold rate, the second [dec] is the VLAN number, and the third [dec] is the amount of time the VLAN will be rate limited.

Recommended Action Contact your technical support representative.

Error Message MCAST-4-RTRDEL_TIMEOUT: Deleting Router Port [dec/dec] in vlan [dec]
- Timeout

Explanation This message indicates that the router port timer has timed out and the router port entry has been removed. [dec/dec] is the router module number/port number, and [dec] is the VLAN number. This problem might be caused by the switch not receiving any router-specific packets (IGMP general queries, PIMv1 queries, DVMRP probes, PIMv2 hellos, or MOSPF hellos).

Recommended Action Check if a router is on that port, and verify that IGMP is enabled.

Error Message MCAST-4-RX_IGMPLV: IGMP: Rcvd IGMP Leave [chars] on [dec]/[dec]

Explanation This message indicates that the switch has received an IGMP leave message for a group on a module/port. [chars] is the group number, and [dec]/[dec] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MCAST-4-RX_IGMPREPORT: IGMP: Rcvd IGMP Report [chars] on [dec]/[dec]

Explanation This message indicates that the switch has received an IGMP report message for a group on a module/port. [chars] is the group number, and [dec]/[dec] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MCAST-4-RX_JNRANGE: IGMP: Rcvd Report in the range of 01-00-5e-00-00-xx

Explanation This message indicates that the switch received an IGMP report from a host for the group address in the range of 01-00-5e-00-00-xx. This range is used normally for control packets and should not be used for general multicast data traffic.

Recommended Action Contact your technical support representative.

Error Message MCAST-4-RX_LVRANGE: IGMP: Rcvd Leave in the range of 01-00-5e-00-00-xx

Explanation This message indicates that the switch received an IGMP leave from a host for the group address in the range of 01-00-5e-00-00-xx. This range is used normally for control packets and should not be used for general multicast data traffic.

Recommended Action Contact your technical support representative.

MCAST-5

Error Message MCAST-5-CGMPPLV_ENABLE: CGMP Leave Feature is [chars]abled

Explanation This message indicates that the leave feature has either been enabled or disabled. [chars] is either [en]abled or [dis]abled.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MCAST-5-GMRP_ADDGDA: GMRP: Add Multicast Group [chars] on port [dec]/[dec]

Explanation This message indicates that a multicast group address has been added to the EARL table by GMRP. This situation occurs after a join message is received by that particular group address. [chars] is the group address.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MCAST-5-GMRP_DELGDA: GMRP: Delete Multicast Group [chars] on port [dec]/[dec]

Explanation This message indicates that a multicast group address has been deleted from the EARL table by GMRP. This occurs after a leave timer expires. [chars] is the group address.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MCAST-5-GMRP_FWDALLEN: GMRP: ForwardAll [chars]abled on port [dec]/[dec]

Explanation This message indicates that the forward all feature is either enabled or disabled for this port. [chars] is either [en]abled or [dis]abled, and [dec]/[dec] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MCAST-5-GMRP_PORTENABLE: GMRP [chars]abled on port [dec]/[dec]

Explanation This message indicates that the GMRP is disabled on the port. [chars]abled is [dis]abled, and port [dec]/[dec] is the module number and port number of the port where GMRP is disabled.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MCAST-5-GMRP_REG: GMRP: Registration is set to [chars] on port [dec]/[dec]

Explanation This message indicates the type of registration for all the attributes registered on this port. [chars] can be either normal, fixed, or forbidden, and [dec]/[dec] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MCAST-5-IGMP_NORMAL: IGMP: Running in NORMAL mode

Explanation This message indicates that the NMP has recovered from address aliasing and has reenabled redirection escape logic for the following multicast addresses:

01-00-5e-00-00-01
01-00-5e-00-00-04
01-00-5e-00-00-05
01-00-5e-00-00-06
01-00-5e-00-00-0d

Recommended Action No action is necessary. This message is provided for information only.

Error Message MCAST-5-PROT_STATUS: [chars] Feature is [chars]abled

Explanation This message indicates whether the Layer 2 multicast feature is enabled or disabled. The message displays whenever you execute CLI commands to enable or disable IGMP snooping or GMRP. The first [chars] feature is either enabled or disabled, and the second [chars] is either enabled or disabled.

Recommended Action No action is necessary. This message is provided for information only.

MCAST-6

Error Message MCAST-6-CGMP_JOININFO: CGMP: GDA: [chars] USA: [chars]

Explanation This message indicates that the system has received a CGMP join message for the Group Destination Address (GDA) from the router for the host whose source address is USA. The first [chars] is the group destination address and the second [chars] is the unicast source address.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MCAST-6-DELGDA: Deleting a GDA [chars] in vlan [dec]

Explanation This message indicates that a multicast entry in the given VLAN is being deleted because an IGMP leave from the last host for this GDA was received. [chars] is the group destination address and vlan [dec] is the VLAN number.

Recommended Action Contact your technical support representative.

Error Message MCAST-6-RGMP_JOIN: Rcvd RGMP Join Mesg [dec]/[dec] vlan [dec] for Group [chars]

Explanation This message indicates that the router has joined a multicast group. [dec]/[dec] is the module number and port number, vlan [dec] is the VLAN number, and group [chars] is the group name.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MCAST-6-RGMP_JOINRANGE: Rcvd RGMP Join Mesg in the range 01-00-5e-00-00-xx

Explanation This message indicates that the router has sent a message for an invalid (reserved) address. The address 01-00-5e-00-00-xx cannot be used by RGMP.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MCAST-6-RGMP_LEAVE: Rcvd RGMP Leave Mesg [dec]/[dec] vlan [dec] for Group [chars]

Explanation This message indicates that the router has left a multicast group. [dec]/[dec] is the module number and port number, vlan [dec] is the VLAN number, and group [chars] is the group name.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MCAST-6-RGMP_LVRANGE: Rcvd RGMP Leave Mesg in the range 01-00-5e-00-00-xx

Explanation This message indicates that the router has sent a message for an invalid (reserved) address. The address 01-00-5e-00-00-xx cannot be used by RGMP.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MCAST-6-RTRADD_HSRP: Adding Router Port [dec/dec] in vlan [dec] - HSRP mesg

Explanation This message indicates that CGMP/IGMP snooping has learned a router port through Hot Standby Router Protocol (HSRP) messages. [dec]/[dec] is the module number/port number, and vlan [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MCAST-6-RTRADD_PIM: Adding Router Port [dec]/[dec] in vlan [dec] - PIM mesg

Explanation This message indicates that CGMP/IGMP snooping has learned a router port through PIM messages. [dec]/[dec] is the module number/port number, and vlan [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MCAST-6-RTRADD_PROT: Adding Router Port [dec/dec] in vlan [dec]

Explanation This message indicates that CGMP/IGMP has learned a new router port. [dec]/[dec] is the module number/port number, and vlan [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MCAST-6-RTRADD_USERCFG: Adding Router Port [dec/dec] in vlan [dec] - User Configd

Explanation This message indicates that the user has used the **set multicast router** command to set a user-configured multicast router. [dec/dec] is the module number/port number, and vlan [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MCAST-6-RTRRGMP_BYE: Router Port [dec]/[dec] in vlan [dec] has become nonRGMP-capable

Explanation This message indicates that an RGMP router port has changed to a non-RGMP router port. [dec]/[dec] is the module number and port number, and vlan [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MCAST-6-RTRRGMP_HELLO: Router Port [dec]/[dec] in vlan [dec] has become RGMP-capable

Explanation This message indicates that a router port has changed to a RGMP-capable port. [dec]/[dec] is the module number/port number, and vlan [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MCAST-6-RTRRGMP_TIMEOUT: Router Port [dec]/[dec] in vlan [dec] is no longer RGMP capable-Timeout

Explanation This message indicates that the RGMP router has timed out and the port is no longer RGMP capable. [dec]/[dec] is the module number/port number, and vlan [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MCAST-6-RX_CGMPJUN: CGMP: Rcvd CGMP Join Mesg in vlan [dec]

Explanation This message indicates that a CGMP join message was received by a VLAN. vlan [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MCAST-6-RX_CGMPLV: CGMP: Rcvd CGMP Leave Mesg [dec/dec] vlan [dec]

Explanation This message indicates that a CGMP leave message was received on a VLAN port. [dec/dec] is the module number/port number where the message was received and vlan [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MCAST-6-TOPOCHG: Recvd Topology Change Notification in vlan [dec]

Explanation This message indicates that the NMP received a topology change notification in a VLAN. vlan [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

MGMT Messages

This section contains the MGMT messages.

MGMT-1

Error Message MGMT-1-DHCP_EXPIRE: DHCP lease expired, relinquishing IP address [chars]

Explanation This message indicates that the DHCP lease has expired and that the NMP is about to clear the system IP address. [chars] is the system IP address being released.

Recommended Action Contact your technical support representative.

MGMT-2

Error Message MGMT-2-SESSION_FAIL: Out of [chars] processes. Try later.

Explanation This message indicates that no more secure shell (SSH) or Telnet sessions can be established. [chars] is the process type.

Recommended Action Enter the **show users** command to know about the open telnet and ssh sessions on the switch. Network Scanning or Network Management programs could have left the Telnet sessions open. Clear the unwanted Telnet or SSH sessions using the **disconnect** command.

MGMT-3

Error Message MGMT-3-DECRYPT_FAIL: RSAPrivateDecrypt [chars] failed

Explanation This message indicates that the RSA private decryption of the SSH session-key failed when a SSH client attempted to connect to the system. This situation can happen with odd-numbered length crypto keys. [chars] is the SSH name.

Recommended Action Set the crypto key length to an even number. To set the key length, use the **set crypto key rsa nbits** command.

Error Message MGMT-3-TOPN_IOBYTE: Port [dec]/[dec] transmit receive byte count is excessive, 1st poll [chars], 2nd poll [chars]

Explanation This message indicates that the difference between the Tx/Rx bytes value obtained during the first poll and Tx/Rx bytes value obtained during the second poll is too great. [dec]/[dec] is the module number/port number, 1st poll [chars] is the first poll counter value, and 2nd poll [chars] is the second poll counter value.

Recommended Action Check the TopN report for abnormal values in the Tx+Rx bytes column. Contact your technical support representative.

MGMT-4

Error Message MGMT-4-DHCP_REBIND: DHCP lease will expire in [dec] minutes

Explanation This message indicates that the server is trying to renew the DHCP lease, but the DHCP lease time has nearly expired. [dec] is the number of minutes remaining in the DHCP lease.

Recommended Action Resolve this issue as soon as possible before the DHCP lease expires, otherwise, the system IP address will be released by the software after the lease has expired. Contact your technical support representative.

Error Message MGMT-4-OUTOFNVRAM: Out of NVRAM space: ([dec], [dec], [dec],dec)

Explanation This message indicates that an NVRAM write operation fails due to lack of space. The first [dec] is the configuration block that was being written to NVRAM, the second [dec] is the size of the configuration that was being written to NVRAM, the third [dec] is the total NVRAM size in the system, and the fourth [dec] is the amount of NVRAM space available.

Recommended Action Move the ACL configuration to Flash memory, or clear the configuration for modules not in use.

MGMT-5

Error Message MGMT-5-CONFIG_END_MOD: Auto config ended with [chars] for module [dec]

Explanation This message indicates that the automatic configuration feature has finished loading the configuration for the module.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-CONFIG_START: Auto config started with [chars]

Explanation This message indicates that the startup configuration has started. [chars] is the configuration filename that is being used.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-CONFIG_START_MOD: Auto config started with [chars] for module [dec]

Explanation This message indicates that the automatic configuration feature has started on the modules.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-DHCP: Assigned IP address [chars] from DHCP

Explanation This message indicates that the system IP address has been assigned by the DHCP server. [chars] is the newly assigned IP address.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-DHCP_S: Assigned IP address [chars] from DHCP Server [chars]

Explanation This message indicates that the system IP address has been assigned by DHCP. The first [chars] is the newly assigned IP address and the second [chars] is the DHCP server IP address.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-ENABLE_FAIL: User [chars] failed to enter enable mode from [chars]

Explanation This message indicates that you failed to enter enable mode because of a password failure or because you are administratively prohibited. The first [chars] is the user name, and the second [chars] is the hostname or IP address.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-ERRDISPORTENABLED: Port [dec]/[dec] err-disabled by [chars] enabled by errdisable timeout

Explanation This message indicates that an error disabled port is being reenabled. [dec]/[dec] is the module number and port number, and [chars] is the error message.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-HADISABLED: High Availability disabled due to lack of system resources

Explanation This message usually occurs when a configuration file is loaded using the **copy config** command and the High Availability feature is enabled. This message indicates that because of a lack of resources, the High Availability feature will be temporarily disabled.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-HADISABLEDQFULL: High Availability disabled due to too many messages in queue to sync

Explanation This message indicates that high availability has become disabled because there are too many messages in the queue to synchronize.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-HADISABLEFAIL: High Availability disable due to lack of system resources failed

Explanation This message indicates that the system tried to disable the High Availability feature because of a lack of resources, but was unsuccessful.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-HANVRAMDISABLED: NVRAM synchronization disabled due to lack of system resources

Explanation This message indicates that the system disabled NVRAM synchronization because of a lack of resources.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-HANVRAMENABLED: NVRAM synchronization has been reenabled

Explanation This message indicates that the system reenabled NVRAM synchronization.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-HAREENABLED: High Availability has been re-enabled

Explanation This message indicates that the system has reenabled the High Availability feature.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-HAREENABLEFAIL: Failed to re-enable High Availability

Explanation This message indicates that the system tried, but could not reenable the High Availability feature after it was disabled because of a lack of system resources.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-HTTP_TABLEFULL: All HTTP sessions in use, client [chars] denied access

Explanation This message indicates that all available HTTP sessions are in use. [chars] is the client denied access.

Recommended Action Wait and then retry until an HTTP session becomes available.

Error Message MGMT-5-HTTP_URINOTFOUND: Request for [chars] from client [chars] not found

Explanation This message indicates that the file requested by the browser from the HTTP server running on the switch cannot be found. The first [chars] is the file being requested, and the second [chars] is the client address.

Recommended Action Contact your technical support representative.

Error Message MGMT-5-LOGIN_FAIL: User [chars] failed to log in from [chars]

Explanation This message indicates that the login attempt failed. [chars] is the login name if available, and the second [chars] is the console or IP.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-NVRAM_MINDOWN: Reset mindown in progress. Configuration changes are not saved to NVRAM

Explanation This message indicates that the configuration update will not be saved to NVRAM during reset mindown.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-PORT_ERRDISABLE: Port [dec]/[dec] is errdisabled because of Broadcast Suppression

Explanation This message indicates that a port is errdisabled because of broadcast suppression. [dec]/[dec] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-PROFILE_CFG_END: Profile config ended

Explanation This message indicates that the profile configuration has been loaded successfully.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-PROFILE_CFG_END_MOD: Profile config ended for module [dec]

Explanation This message indicates that the profile configuration has been loaded successfully. [dec] is the module number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-PROFILE_CFG_FILE_ERROR: Profile file [chars]

Explanation This message indicates that a profile configuration has failed to load because of problems with the profile file. For example, the profile file might not exist or the profile file is an invalid configuration file. [chars] is the profile filename.

Recommended Action Make sure that the profile file exists and is a valid configuration file.

Error Message MGMT-5-PROFILE_CFG_MOD_SKIP: Profile config load for module [dec] skipped because [chars]

Explanation This message indicates that a profile configuration can only be loaded onto a module when the module has a default configuration. This message indicates that there is no default configuration present and the loading is skipped. [dec] is the module number, and [chars] is the filename.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-PROFILE_CFG_SKIP: Profile config loading skipped, because system has non-default configuration

Explanation This message indicates that the system is reset and none of the modules or the global configuration have default configurations.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-PROFILE_CFG_START: Profile config started with [chars]

Explanation This message indicates that the system is being loaded with a profile configuration from the file mentioned. This message indicates that a profile configuration is being loaded after a reset of the system. [chars] is the name of the profile file.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-PROFILE_CFG_START_FAIL: Unable to start profile configuration on the system

Explanation This message indicates that the profile configuration cannot be loaded onto the system because the system is running out of memory.

Recommended Action No action is necessary. To learn which processes are using large amounts of memory, enter the **show proc memory** command.

Error Message MGMT-5-PROFILE_CFG_START_MOD: Profile config started for module [dec] with [chars]

Explanation This message indicates that the profile configuration is being loaded on the module. This message is displayed when the module is coming online after a reset or if the module configuration is cleared using the **clear config mod** command. [dec] is the module number, and [chars] is the name of the profile file.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-PROFILE_CFG_START_MOD_FAIL: Unable to start profile configuration for module [dec]

Explanation This message indicates that a profile configuration load on a module failed because the module has run out of memory. [dec] is the module number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-SYS_CONFIG_END: System config ended

Explanation This message indicates that the system configuration process has ended.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-SYS_CONFIG_END_MOD: System config ended for module [dec]

Explanation This message indicates that the module configuration process has ended. [dec] is the module number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-SYS_CONFIG_MAX_FILE_SIZE_EXCEEDED: File bootflash: [chars] exceeds 2000000 bytes, the maximum text configuration file size allowed

Explanation This message indicates that the text configuration file is too large and cannot be executed. [chars] is the name of the text configuration file.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-SYS_CONFIG_START: System configuration started with [chars]

Explanation This message indicates that the system configuration process has begun. [chars] is the name of the configuration file.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-SYS_CONFIG_START_FAIL: Unable to start system configuration

Explanation This message indicates that the system configuration process could not begin with the text configuration file at system startup.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-SYS_CONFIG_START_MOD: System config started with [chars] for module [dec]

Explanation This message indicates that the system configuration process has begun on a specified module. [chars] is the name of the configuration file and [dec] is the module number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-SYS_CONFIG_START_MOD_FAIL:Unable to start system configuration for module [dec]

Explanation This message indicates that the system configuration process could not start on a module with the test configuration file at system startup. [dec] is the module number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-TOPN_ABORT: Report [dec] aborted due to configuration changes

Explanation This message indicates that the TopN report was aborted due to a configuration change. [dec] is the number of the TopN report.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-TOPN_AVAILABLE: Report [dec] available

Explanation This message indicates the TopN report running in the background is ready. [dec] is the TopN report number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-TOPN_DROPMOD: Report [dec] dropped module [dec] data due to module reset

Explanation This message indicates that the TopN report will not contain any ports from the module because the module was reset during the report generation. Report [dec] is the TopN report number, and module [dec] is the module number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-TOPN_START: Report [dec] started by [chars]

Explanation This message indicates that the TopN message running with the specified background option is generating the report. [dec] is the TopN report number, and [chars] is the process that started the report. A second message is generated when the report is available.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-5-TOPN_TERMINATE: Report [dec] terminated by [chars]

Explanation This message indicates that the TopN message was terminated by the specified process. [dec] is the TopN report number, and [chars] is the process that stopped the report generation.

Recommended Action No action is necessary. This message is provided for information only.

MGMT-6

Error Message MGMT-6-CONFIG_END: Auto config ended

Explanation This message indicates that the startup configuration has ended.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-6-ENABLEFAIL: User [chars] failed to enter enable mode from [chars]

Explanation This message indicates that the user was unsuccessful entering enable mode. [chars] is the login name if available, and the second [chars] is the console or IP.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-6-ENABLEPASS: User [chars] entered enable mode from [chars]

Explanation This message indicates that the user has entered privileged mode successfully. [chars] is the login name if available, and the second [chars] is console or IP.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-6-LOGINFAIL: User [chars] failed to log in from [chars]

Explanation This message indicates that the login attempt failed. [chars] is the login name if available, and the second [chars] is the console or IP.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MGMT-6-LOGINPASS: User [chars] logged in from [chars]

Explanation This message indicates that the user has logged in successfully. [chars] is the login name if available, and the second [chars] is the console or IP.

Recommended Action No action is necessary. This message is provided for information only.

MGMT-7

Error Message MGMT-7-ERRDISPORTENABLEFAIL: ErrDisable process failed to enable [dec]/[dec] - [chars]

Explanation This message indicates that the process of reenabling a previously error-disabled port has failed. [dec]/[dec] is the module number and port number of the failing port, and [chars] is the error message.

Recommended Action No action is necessary. This message is provided for information only.

MLS Messages

This section contains the Multilayer Switching (MLS) messages.

MLS-1

Error Message MLS-1-FIB_ADJCHECK_FAIL: Incorrect Adj [hex] for nextHop [0x08[hex]] dmac [[hex][hex][hex][hex][hex][hex]] vlan [dec] sw_vlan [dec] mtu [dec] sw_mtu [dec]

Explanation This message indicates that the adjacency rewrite information for the prefix shown is incorrect. The inconsistency is detected but is not corrected. Adj [hex] is the prefix that has the incorrect rewrite information, nextHop [hex] is the next hop address, the DMAC value is the memory address in hex, vlan [dec] is the hardware Ternary Content Addressable Memory (TCAM) value, sw_vlan [dec] is the software TCAM value, mtu [dec] is the hardware TCAM value, and sw_mtu is the software TCAM value.

Recommended Action Contact your technical support representative.

Error Message MLS-1-FIB_ECC_ERROR: TCAM ECC error: [chars][dec]

Explanation This message indicates that there is a read/write adjacency error checking and correction (ECC) error. [chars] indicates whether the ECC is correctable or uncorrectable, and [dec] is the error number.

Recommended Action If the ECC error is correctable, the message is provided for information only. If the ECC error is uncorrectable, reload the adjacency information.

Error Message MLS-1-FIB_RPF_WARNING: RPF check mode for [chars] [chars] changed to loose mode

Explanation This message indicates that the number of RPF paths has exceeded the hardware multipath capacity. [chars] [chars] identifies the specific IP address and mask that have been changed to loose mode.

Recommended Action You should reduce the number of RPF paths to match the hardware capacity.

Error Message MLS-1-FIB_TCAM_CHECK_FAIL: FIB TCAM Mismatch for [chars]: Index: [dec] Expected Entry: 3[hex]-8[hex]-8[hex] Hardware: Entry: 3[hex]-8[hex]-8[hex]

Explanation This message indicates that the FIB TCAM is in an inconsistent state. [chars] is the FIB TCAM index identifier, and the [hex] variables are the specific index mismatched values.

Recommended Action Reload Cisco Express Forwarding. If this action does not correct the problem, contact your technical support representative.

Error Message MLS-1-FIB_TCAM_TBL_CHECK_FAIL: Inconsistent TCAM table management structure for [chars]

Explanation This message indicates that there is an inconsistency between the table management and the hardware. [chars] is the error message.

Recommended Action Reload Cisco Express Forwarding. If the problem is not corrected, contact your technical support representative.

Error Message MLS-1-FIB_TCAMCHECK_MASKFAIL: Inconsistent mask: Class [hex] Entry Index 1[dec] Mask Index 1[dec] Shadow TCAM [0x081[hex]] Phy TCAM [0x081[hex]]

Explanation This message indicates that a mask inconsistency has been detected between the hardware TCAM and the corresponding software entry for the given prefix. The inconsistency is corrected immediately. Class [hex] can be 5 (IP), 6 (IPX), or 7 (Multicast IP). Entry Index is the TCAM index of the prefix that is inconsistent (the value range can be from 0 to 256K minus 1). Shadow TCAM refers to the corresponding software entry and shows the software entry value in hex. Phy TCAM refers to the hardware TCAM entry in hex.

Recommended Action Because the inconsistency is corrected immediately, you do not need to take corrective action. However, you can copy the message exactly as it appears and contact your technical support representative.

Error Message MLS-1-FIB_TCAMCHECK_MASKSHUFFLEFAIL: TCAM blk shuffle pbm: Ent Idx [dec] class [hex] Msk [dec] Shadow 0x08[hex] Prev Msk 0x08[hex]

Explanation This message indicates that the prefix entry is programmed in the wrong mask. Ent Idx [dec] is the TCAM index of the prefix that has the inconsistent mask (the value range can be 0 to 256K minus 1). Class [hex] can be 5 (IP), 6 (IPX), or 7 (Multicast IP). Msk [dec] is the mask of the corresponding entry. Shadow 0x08[hex] is the corresponding software mask entry. Prev Msk 0x08[hex] is the previous mask block.

Recommended Action Copy the messages and contact your technical support representative.

Error Message `MLS-1-FIB_TCAMCHECK_PREFIXFAIL:Inconsistent prefix: Class [hex] Entry Index 1[dec] Shadow TCAM [0x081[hex]] Phy TCAM [0x081[hex]]`

Explanation This message indicates that an inconsistency has been detected between the hardware TCAM and the corresponding software entry for the given prefix. The inconsistency is corrected immediately. Class [hex] can be 5 (IP), 6 (IPX), or 7 (Multicast IP). Entry Index is the TCAM index of the prefix that is inconsistent (the value range can be 0 to 256K minus 1). Shadow TCAM refers to the corresponding software entry and shows the software entry value in hex. Phy TCAM refers to the hardware TCAM entry in hex.

Recommended Action Because the inconsistency is corrected immediately, you do not need to take corrective action. However, you can copy the message exactly as it appears and contact your technical support representative.

Error Message `MLS-1-FIB_TCAM_MASKBLOCK_CHECK: Wrong mask block [dec] for mask [dec] at entry_index [dec]`

Explanation This message indicates that an incorrect mask block was selected to program a prefix entry. This message is displayed dynamically before the point of programming the prefix entry. Mask block [dec] is the hardware TCAM which is the wrong mask block value, mask [dec] is the mask of the corresponding entry, and entry_index [dec] is the TCAM index of the prefix that is inconsistent (the value range can be 0 to 256K minus 1).

Recommended Action Copy the message exactly as it appears, and contact your technical support representative.

Error Message `MLS-1-MCAST_RTRADDRCHNG: MAC address of the MLS Route Processor [chars] changed from [chars] to [chars]`

Explanation This message indicates that a change in the MLS route processor MAC address has been detected. The first [chars] identifies the route processor, the second [chars] is the old MAC address, and the third [chars] is the new MAC address.

Recommended Action Contact your technical support representative.

Error Message `MLS-1-MCAST_RTRDEL: MLS Route Processor [chars] deleted - Timeout`

Explanation This message indicates that the Multilayer Switch Feature Card (MSFC) is not responding to MLS supervisor engine messages. The supervisor engine considers the route processor unavailable and cleans up all of the shortcuts downloaded by the route processor. [chars] is the name of the route processor.

Recommended Action Contact your technical support representative.

MLS-2

Error Message MLS-2-BANFFLTLFAIL: Set BANFF LTL failed, new shortcuts disabled

Explanation This message indicates that the creation of new MLS shortcuts is disabled because of a failure in the central rewrite engine configuration.

Recommended Action Contact your technical support representative.

Error Message MLS-2-MCAST_ASSERT: Function: [chars] msg: [chars]

Explanation This message indicates that a failure has been detected in a specified function. Function: [chars] is the name of the function and msg: [chars] is the error message.

Recommended Action Contact your technical support representative.

Error Message MLS-2-MCAST_METFULL: Multicast Expansion Table full

Explanation This message indicates that the multicast expansion table used to store outgoing VLAN information is full. There is a problem with the network.

Recommended Action Contact your technical support representative.

Error Message MLS-2-MCAST_TASKFAIL: Task creation failed

Explanation This message indicates that the Multicast Multilayer Switching (MMLS) feature could not start the process; the feature has been disabled by the switch.

Recommended Action Contact your technical support representative.

Error Message MLS-2-WHISTLERMIERRORDIS: Whistler MI error exceeded threshold, MLS stopped

Explanation This message indicates that the number of memory interface errors exceeded the threshold. MLS is disabled.

Recommended Action This is a hardware defect. Contact your technical support representative.

Error Message MLS-2-WHISTLERPARITYERROR: Whistler parity error, MLS stopped

Explanation This message indicates that a parity error occurred in the NetFlow Feature Card (NFFC) II Whistler ASIC.

Recommended Action This is a hardware defect. Contact your technical support representative.

MLS-3

Error Message MLS-3-FIB_FAILRXMSG: SCP(mcast) registration for rxing fib msgs failed

Explanation This message indicates that the NMP failed to receive Forwarding Information Base (FIB) table updates sent from MSRP because the NMP failed.

Recommended Action Contact your technical support representative.

Error Message MLS-3-FIB_MAXHSRP: Maximum number of supported HSRP addresses (16) exceeded

Explanation This message indicates that the number of Hot Standby Router Protocol (HSRP) groups sent from the MSRP exceeded the number of HSRP groups supported by NMP.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MLS-3-GETNEWLEARN: Get new learn mac notification [hex]

Explanation This message indicates that MLS is not supposed to get any new source address learned notification. [hex] is the new source address. This message indicates an internal error.

Recommended Action Contact your technical support representative.

Error Message MLS-3-NEWSCREATION: New MLS entries creation [chars]abled by [chars]

Explanation This message indicates that a problem with new MLS entries creation was detected during the process exit. [chars]abled can be either disabled or enabled, and the second [chars] is the task name.

Recommended Action Contact your technical support representative.

Error Message MLS-3-RATELIMIT_HWFALIED: Hardware update of rate limiter for [chars] failed

Explanation This message indicates that the system failed to update the rate-limiter hardware configuration. [chars] is the rate-limiter name.

Recommended Action Reset the system. If this does not correct the problem, contact your technical support representative.

Error Message MLS-3-RATELIMIT_NOFREERATELIMITER: No free rate limiter for [chars]

Explanation This message indicates that the system is running out of hardware rate limiters and that the named rate limiter configuration has failed. [chars] is the failing rate limiter name.

Recommended Action Try to eliminate rate limiters that are not needed, and then reconfigure the faulty rate limiter.

Error Message MLS-3-RATELIMIT_NOMEM: No memory, rate limiting configuration for [chars] failed

Explanation This message indicates that the system is running out of memory and that the named rate limiter configuration has failed. [chars] is the failing rate limiter name.

Recommended Action Check the system memory usage, and then retry the rate limiter configuration when additional memory is available.

Error Message MLS-3-WHISTLERMIERRORHRST: Whistler MI error, MI hard reset

Explanation This message indicates that a memory interface error occurred in the NFFC II Whistler ASIC. The memory interface is hard reset.

Recommended Action No action is necessary. This message is provided for information only.

MLS-4

Error Message MLS-4-FIB_ADJ_FULLL: No free adjacency for [chars]

Explanation This message indicates that a new adjacency cannot be installed in the hardware adjacency table because the assigned region is full. As a result, packets using this adjacency will be sent to MSFC for software forwarding. [chars] is the application that requests installation of this adjacency.

Recommended Action This is a hardware restriction. If the application is IP unicast, you can reduce the hardware adjacency usage by disabling per-prefix statistics by using the **set mls cef per-prefix-stats disable** command.

Error Message MLS-4-FIB_ALLOC_TCAM_FULLL: Allocated FIB TCAM space full for [chars]

Explanation This message indicates that a new FIB entry cannot be installed in the hardware FIB TCAM table because the table is full. As a result, any packets that encounter a hardware FIB lookup will be sent to the MSFC for software forwarding. [chars] refers to the protocol that requests installation of the FIB entry.

Recommended Action Assign more FIB entries for the application with the **set mls cef maximum-routes** command or upgrade the supervisor engine to a larger FIB TCAM capacity.

Error Message MLS-4-FIB_MAXROUTES_RESET: Resetting standby supervisor for new maximum-routes configuration

Explanation This message indicates the redundant supervisor engine must be reset to get synchronized with the active supervisor engine startup setting for the **mls cef maximum-routes** command configuration.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MLS-4-FIB_TCAM_FULL: FIB TCAM full

Explanation This message indicates that a new FIB entry could not be installed in the hardware FIB TCAM table because the table is full. As a result, any packets that encounter a hardware FIB lookup miss will be sent to the MSFC for software forwarding.

Recommended Action This is a hardware restriction. You can reduce the number of routes on the switch by load sharing with other switches or upgrade the supervisor engine to a larger FIB TCAM capacity.

Error Message MLS-4-LOSEEVENT: Event loss, purge all entries

Explanation This message indicates that an internal MLS event loss occurred due to insufficient system resources. All MLS entries are purged.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MLS-4-MOVEOVERFLOW: Too many moves, stop MLS for [dec] sec ([hex])

Explanation This message indicates that there have been too many Layer 2 source address changes during a short period of time. This message might be caused by topology changes or spanning tree loops. MLS is stopped for a specified number of seconds and all entries are purged. [dec] is the number of seconds, and [hex] is the event code for moves.

Recommended Action Check the topology for any loops. Contact your technical support representative.

Error Message MLS-4-RESUMESC: Resume MLS after detecting too many moves

Explanation This message indicates that MLS has resumed after being stopped due to too many Layer 2 source address changes being detected in a short period of time.

Recommended Action No action is necessary. This message is provided for information only.

MLS-5

Error Message MLS-5-FLOWMASKCHANGE: [chars] flowmask changed from [chars] to [chars]

Explanation This message indicates that the MLS flow mask for the switching engine has been changed from the original flow mask to the new flow mask. The first [chars] is the switching engine, the second [chars] is the original flow mask, and the third [chars] is the new flow mask. The flow mask can be DEST, DEST-SRC, or FULL.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MLS-5-IPXMAXHOPCHANGE: IPX max hop count changed from [dec] to [dec]

Explanation This message indicates a change has been made to the maximum hop count value on the switch. The count is the minimum value requested by all the MLS route processors. [dec] is the old maximum hop count and the second [dec] is the new maximum hop count.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MLS-5-MCAST_GLOBALPURGE: Purging All Multicast Flows due to [chars]

Explanation This message indicates that the MLS supervisor engine is purging all of the flows downloaded by the route processor. [chars] is the reason the purge is taking place.

Recommended Action Contact your technical support representative.

Error Message MLS-5-MCAST_LCFAILURE: Resetting linecard- [dec] due to SCP failures

Explanation This message indicates that the system is resetting the module after detecting Serial Control Protocol (SCP) failures. [dec] is the module number.

Recommended Action Make sure that all modules are seated properly and that the captive installation screws are tightened. If the problem persists, contact your technical support representative.

Error Message MLS-5-MCAST_ROUTERDOWN: Router Down event for [chars]. Purging all related Multicast Flows

Explanation This message indicates that the multicast flows were purged because the designated router is down. [chars] is the name of the router.

Recommended Action The message is expected when the router is reloaded. If the message is seen when there is an unexpected or unscheduled reload of the router, collect all of the related information, and contact your technical support representative.

Error Message MLS-5-MCAST_ROUTERPURGE: Received Global Delete Message from [chars]. Purging all related Multicast Flows

Explanation This message indicates that the router has removed all the multicast flows which had been previously downloaded. This situation can occur when the multicast MLS feature is disabled on the router or when a serious problem occurs that disables the feature.

Recommended Action Contact your technical support representative.

Error Message MLS-5-MCAST_SCPFAILURE: SCP failure detected on module: ([dec])

Explanation This message indicates that the specified module failed to respond to out-of-band channel (EOBC) Serial Control Protocol (SCP) messages. [dec] is the module number.

Recommended Action Make sure that all modules are seated properly and that the captive installation screws are tightened. If the problem persists, contact your technical support representative.

Error Message MLS-5-MCAST_STATUS: IP Multicast L3 Multilayer Switching Feature is [chars]abled

Explanation This message indicates that the multicast Layer 3 multilayer feature is enabled or disabled. [chars]abled can be either disabled or enabled.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MLS-5-MLSDISABLED: Multilayer switching is disabled

Explanation This message indicates that MLS is disabled.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MLS-5-MLSENABLED: Multilayer switching is enabled

Explanation This message indicates that MLS is enabled.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MLS-5-NDEDISABLED: Netflow Data Export disabled

Explanation This message indicates that flow statistics for all aged flows have stopped being sent.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MLS-5-NDEENABLED: Netflow Data Export enabled

Explanation This message indicates that flow statistics for all aged flows are being sent to the configured host in a User Datagram Protocol (UDP) datagram.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MLS-5-ROUTERADD: Route processor [chars] added

Explanation This message indicates that an MLS route processor has been added by the MLS switching engine. [chars] is the ID of the MLS route processor. The MLS switching engine starts Layer 3 switching for the MLS route processor.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MLS-5-ROUTERDEL: Route Processor [chars] deleted - [chars]

Explanation This message indicates that an MLS route processor has been deleted by the MLS switching engine. The first [chars] is the ID of the MLS route processor, and the second [chars] indicates the cause of the deletion.

Recommended Action No action is necessary. This message is provided for information only.

MLS-6

Error Message MLS-6-MCAST_L3FLOW: Installed from the Route Processor [chars] for Source [chars] Group [chars] Vlan [dec]

Explanation This message indicates that a new multicast flow has been installed and the MLS table on your switch is deleting specific multicast flows. You will see this message if you have entered the **set logging level** command to set the logging level to 5 or higher. The first [chars] is the route processor name, the second [chars] is the source name, the third [chars] is the group name, and Vlan [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message MLS-6-WHISTLERXTAGERROR: Whistler error xtag=[dec]

Explanation This message indicates that an xtag error occurred in the NFFC II Whistler ASIC. [dec] is the number of the xtag error. This error does not affect the MLS functionality.

Recommended Action No action is necessary. This message is provided for information only.

MLS-7

Error Message MLS-7-MCAST_VLANDEL: VLAN [dec] deleted from flows of route processor [chars]

Explanation This message indicates that this VLAN has been deleted from the multicast flows that were installed by the route processor because of Layer 2 events. (For example, the last router in the VLAN is going down, the VLAN is down, or Layer 2 is disabled.) [dec] is the VLAN number that has been deleted. [chars] is the router processor IP that installed these flows.

Recommended Action No action is necessary. This message is provided for information only.

MVRP Messages

This section lists the Multiple VLAN Registration Protocol (MVRP) messages.

MVRP-0

Error Message MVRP-0-MVRPNOMBUF: No mbuf to [message]

Explanation This message indicates that MVRP failed to notify VTP when a VLAN was created or deleted. The problem occurred when VTP ran out of message buffer space. [chars] indicates the message body.

Recommended Action Reinitialize the VTP configuration by toggling between VTP server mode and transparent mode. If the problem persists, reset or power cycle the switch.

MVRP-1

Error Message MVRP-1-MVRPDYNVLANCREATE: Cannot change VTP mode to server/client when dynamic vlan creation is enabled

Explanation This message indicates that when MVRP dynamic VLAN creation is enabled, the VTP mode cannot be changed to server or client mode.

Recommended Action Either disable MVRP VLAN creation, if you need to change the VTP mode, or do not change the VTP mode when MVRP VLAN creation is enabled.

MVRP-3

Error Message MVRP-3-MVRPCREATEVLANYPEMISMATCH: MVRP failed to create VLAN [dec]: VLAN exists and VLAN type is [dec]

Explanation This message indicates that the requested VLAN already exists.

Recommended Action Enter a different VLAN type.

Error Message MVRP-3-MVRPCREATEVLANFAIL: MVRP failed to create VLAN [dec]: error code = [chars]

Explanation This message indicates that the [dec] VLAN could not be created because of the [chars] error.

Recommended Action Contact your technical support representative with the VLAN ID and the error code.

Error Message MVRP-3-MVRPDELETEVLANNFAIL: MVRP failed to delete VLAN [dec]: error code = [chars]

Explanation This message indicates that the [dec] VLAN could not be deleted because of the [chars] error.

Recommended Action Contact your technical support representative with the VLAN ID and the error code.

Error Message MVRP-3-MVRPCREATEVLANNOTALLOWED: Dynamically adding VLAN [chars] not allowed

Explanation This message indicates that a received MVRP join message contains a new VLAN number that is not allowed because dynamic VLAN creation is not enabled on the switch. [dec] is the new VLAN number.

Recommended Action Enable the dynamic VLAN creation so that the new VLAN can be added to the switch.

Error Message MVRP-3-MVRPCREATEVLANSUSPENDED: Can not create suspended VLAN [chars]

Explanation This message indicates that a received MVRP join message contains a new VLAN number that is already suspended on the switch. [dec] indicates the suspended VLAN number.

Recommended Action Remove the suspended VLAN to allow it to be dynamically recreated or reactivate the suspended VLAN.

Error Message MVRP-3-MVRPCREATEVLANNONETHERNET: Can not create non-Ethernet VLAN [chars]

Explanation This message indicates that a received MVRP join message contains a new VLAN number that is not an Ethernet VLAN currently existing on the switch. [dec] is the non-Ethernet VLAN number.

Recommended Action Either reassign the VLAN number to an Ethernet or correct the VLAN configuration on the peer side of the MVRP device for VLAN consistency.

Error Message MVRP-3-MVRPDELETEVLANNONEXISTING: Can not delete or withdraw non-existing VLAN [chars]

Explanation This message indicates that the VLAN to be deleted or withdrawn by the MVRP or VLAN configuration does not exist. No VLAN deletion is required for MVRP. [dec] is the nonexistent VLAN number.

Recommended Action You must specify a valid VLAN number.

Error Message MVRP-3-MVRPRECVNONMVRPTRUNK: Drop MVRP PDU received on non-MVRP port [mod/port]

Explanation This message indicates that an MVRP protocol data unit (PDU) frame received from an MVRP-disabled port was dropped because the port was not running MVRP. [dec]/[dec] is the module number/port number that received the MVRP PDU frame.

Recommended Action Check the peer side of the MVRP device for consistent MVRP configuration. Either enable MVRP on the module/port or disable MVRP on the peer side.

Error Message MVRP-3-MVRPLOSTVLANEVT: VLAN creation/deletion event lost for VLAN [chars]

Explanation This message indicates that an MVRP join message received contains a new VLAN number that needs to be created dynamically but MVRP failed to notify VTP for VLAN creation. The error can also occur when MVRP wants to delete a VLAN and fails to notify VTP about the deletion. The problem occurs when the VTP message queue is full. [dec] is the new VLAN number.

Recommended Action Reinitialize the VTP configuration by toggling between VTP server mode and transparent mode. If the problem persists, reset or power cycle the switch.

Error Message MVRP-3-MVRPLOSTTRUNKEVT: TRUNK creation/deletion event lost for TRUNK [dec/dec]

Explanation This message indicates that VTP does not receive the request sent by MVRP because the VTP queue is full or the VTP task is not running. [dec]/[dec] is the module number/port number.

Recommended Action Contact your technical support representative.

Error Message MVRP-3-MVRPCREATEPROCESSFAILED: Failed to create MVRP process

Explanation This message indicates that the MVRP process was not completed successfully when the system was initialized or that the MVRP was set to enabled. The switch may have encountered resource allocation problems.

Recommended Action Disable MVRP on the switch, and then retry it later when the system is more stable. If the problem recurs, reset or power cycle the switch.

MVRP-4

Error Message MVRP-4-LOSTMVRPEVT: lost mvrp trunk change event (vlan=[dec])

Explanation This message indicates that MVRP could not queue the join-leave message to VTP, because the VTP queue is full, and MVRP drops the message.

Recommended Action This problem is resolved when the VTP queue becomes available. The dropped messages are queued if they are sent to the VTP again. If not, the loss of messages affect MVRP-VTP pruning interoperation. Initializing VTP or toggling MVRP trunks may solve this problem. However, no action is required if all the trunks in the switch are MVRP trunks and there is no VTP pruning in the network.

PRIVATEVLAN Messages

This section contains the private VLAN messages.

PRIVATEVLAN-3

Error Message PRIVATEVLAN-3-ACL_MAPFAIL: Unable to map ACL to VLAN

Explanation This message indicates that the system was unable to map the ACL to the VLAN.

Recommended Action Contact your technical support representative.

Error Message PRIVATEVLAN-3-ACL_RESTOREFAIL: Failed to apply configuration to ACLs

Explanation This message indicates that the system failed to apply the configuration to the ACLs.

Recommended Action Contact your technical support representative.

Error Message PRIVATEVLAN-3-ACL_UNMAPFAIL: Unable to unmap ACL from VLAN

Explanation This message indicates that the system failed to unmap the ACL from the VLAN.

Recommended Action Contact your technical support representative.

Error Message PRIVATEVLAN-3-DEASSOCIATIONFAIL: Failed to delete association between [dec] and [dec]

Explanation This message indicates that the system failed to delete the association between the primary VLAN and the secondary VLAN. The first [dec] is the primary VLAN number, and the second [dec] is the secondary VLAN number.

Recommended Action Contact your technical support representative.

Error Message PRIVATEVLAN-3-DELMAPFAIL: Failed to delete map between [dec] and [dec] on [dec]/[dec]

Explanation This message indicates that the system failed to delete the map between the primary VLAN and the secondary VLAN on the specified module and port. The first [dec] is the primary VLAN number, the second [dec] is the secondary VLAN number, and [dec]/[dec] is the module number and port number.

Recommended Action Contact your technical support representative.

Error Message PRIVATEVLAN-3-MAPNVRAMFAIL: Failed to save mapping configuration to NVRAM

Explanation This message indicates that the system failed to save the mapping configuration to NVRAM.

Recommended Action Contact your technical support representative.

Error Message PRIVATEVLAN-3-PORT_CFGFAIL: Failed to set port [dec]/[dec] to Private Vlan [dec], [dec], [chars]

Explanation This message indicates that the system failed to set the specified port to the private VLAN. [dec]/[dec] is the module number and port number, private VLAN [dec], [dec] is the primary VLAN number and the secondary VLAN number, and [chars] is the error message character string.

Recommended Action Contact your technical support representative.

Error Message PRIVATEVLAN-3-PORT_INACTIVE: Set port [dec]/[dec] to inactive because using vlan [dec] belonging to a Private Vlan

Explanation This message indicates that the system set the specified port to inactive because the VLAN belongs to a private VLAN. [dec]/[dec] is the module number and port number, and VLAN [dec] is the VLAN number.

Recommended Action Contact your technical support representative.

Error Message PRIVATEVLAN-3-PORT_REMOVEFAIL: Failed to remove port [dec]/[dec] from Private Vlan [dec], [dec] [chars]

Explanation This message indicates that the system failed to remove the port from the private VLAN. [dec]/[dec] is the module number and port number, private VLAN [dec], [dec] is the primary VLAN number and secondary VLAN number, and [chars] is the error message character string.

Recommended Action Contact your technical support representative.

Error Message PRIVATEVLAN-3-REMAP_CFGFAIL: Failed to add mapping for [dec] to [dec] in port [dec]/[dec] [chars]

Explanation This message indicates that the system failed to add mapping from the secondary VLAN to the primary VLAN on the specified module and port. The first [dec] is the secondary VLAN number, the second [dec] is the primary VLAN number, [dec]/[dec] is the module number and port number, and [chars] is an optional character string that describes the reason for the failure.

Recommended Action Contact your technical support representative.

Error Message PRIVATEVLAN-3-REMAP_DELETED1: Mapping between [dec] and [dec] failed on [dec]/[dec] due to [chars] and has been deleted

Explanation This message indicates that the mapping between the primary VLAN and the secondary VLAN has failed on the specified module and port and has been deleted. The first [dec] is the primary VLAN number, the second [dec] is the secondary VLAN number, [dec]/[dec] is the module number and port number, and [chars] is the character string that describes the failure reason.

The error messages REMAP_DELETED1 and REMAP_DELETED2 are usually displayed together because REMAP_DELETED2 is an addition to REMAP_DELETED1. This represents the action that is taken when an interface on the MSFC is present for a secondary VLAN and the interface creates a configuration failure.

Recommended Action Contact your technical support representative.

Error Message PRIVATEVLAN-3-REMAP_DELETED2: Delete subinterface [dec] on module [dec] and recreate the mapping

Explanation This message indicates that the system has deleted the subinterface VLAN on the specified module. The first [dec] is the VLAN number, and the second [dec] is the module number.

The error messages REMAP_DELETED1 and REMAP_DELETED2 are usually displayed together because REMAP_DELETED2 is an addition to REMAP_DELETED1. This represents the action that is taken when an interface on the MSFC is present for a secondary VLAN and the interface creates a configuration failure.

Recommended Action Contact your technical support representative.

Error Message PRIVATEVLAN-3-REMAP_REMOVEFAIL: Failed to remove mapping for [dec] to [dec] from port [dec]/[dec] [chars]

Explanation This message indicates that the system failed to remove mapping from the secondary VLAN to the primary VLAN on the specified module and port. The first [dec] is the secondary VLAN number, the second [dec] is the primary VLAN number, [dec]/[dec] is the module number and port number, and [chars] is an optional character string that describes the reason for the failure.

Recommended Action Contact your technical support representative.

Error Message PRIVATEVLAN-3-RESTOREASSOCFAIL: Failed to set association between [dec] and [dec]

Explanation This message indicates that the system failed to set the association between the primary VLAN and the secondary VLAN. The first [dec] is the primary VLAN number, and the second [dec] is the secondary VLAN number.

Recommended Action Contact your technical support representative.

Error Message PRIVATEVLAN-3-RESTOREMAPFAIL: Failed to set mapping between [dec] and [dec] on [dec]/[dec]

Explanation This message indicates that the system failed to set mapping between the primary VLAN and the secondary VLAN on the specified module and port. The first [dec] is the primary VLAN number, the second [dec] is the secondary VLAN number, and [dec]/[dec] is the module number and port number.

Recommended Action Contact your technical support representative.

Error Message PRIVATEVLAN-3-RESTOREPORTFAIL: Failed to add port [dec]/[dec] to [dec], [dec]

Explanation This message indicates that the system failed to add the port to the primary and secondary VLANs. [dec]/[dec] is the module number and port number, the next [dec] is the primary VLAN number, and the last [dec] is the secondary VLAN number.

Recommended Action Contact your technical support representative.

Error Message PRIVATEVLAN-3-RESTOREVLANFAIL: Failed to set private vlan type for [dec]

Explanation This message indicates that the system has failed to set the VLAN type to private for the specified VLAN. [dec] is the VLAN number.

Recommended Action Contact your technical support representative.

PRIVATEVLAN-5

Error Message PRIVATEVLAN-5-DELPORTRFAIL: Failed to remove port [dec]/[dec] from [dec], [dec]

Explanation This message indicates that the system failed to remove a port from the primary and secondary VLANs. [dec]/[dec] is the module number and port number, the next [dec] is the primary VLAN number, and the last [dec] is the secondary VLAN number.

Recommended Action Contact your technical support representative.

PRIVATEVLAN-7

Error Message PRIVATEVLAN-7-SYS_MEMALLOCFAIL: Failed to allocate memory in private vlan features in [chars], line [dec]

Explanation This message indicates that the system failed to allocate memory in the private VLAN feature. [chars] is the name of the file, and [dec] is the line number where the failure occurred.

Recommended Action Contact your technical support representative.

PROTFILT Messages

This section contains the protocol filter (PROTFILT) messages.

PROTFILT-5

Error Message PROTFILT-5-AUTO_OFF: Port [dec]/[dec] is set to AUTO-OFF for [chars]

Explanation This message indicates the port is set to auto-off for a protocol group. [dec]/[dec] is the module number/port number, and [chars] is the protocol group.

Recommended Action No action is necessary. This message is provided for information only.

Error Message PROTFILT-5-AUTO_ON: Port [dec]/[dec] is set to AUTO-ON for [chars]

Explanation This message indicates the port is set to auto-on for a protocol group. [dec]/[dec] is the module number/port number, and [chars] is the protocol group.

Recommended Action No action is necessary. This message is provided for information only.

PRUNING Messages for VTP

This section contains the PRUNING messages for VLAN Trunking Protocol (VTP).

PRUNING-2

Error Message PRUNING-2-INITSEMERR: semaphore [hex] not null at vtp_initialization!

Explanation This message indicates that there was an initialization process error in creating a VTP semaphore. [hex] is the semaphore value.

Recommended Action Reset the switch. If the error persists, contact your technical support representative.

Error Message PRUNING-2-INVSTS: FATAL- inv vlan [dec] status [hex]

Explanation This message indicates an internal error. [dec] is the VLAN number, and [hex] is the status value.

Recommended Action Contact your technical support representative.

Error Message PRUNING-2-LOSTST1: update: lost trunk [dec]/[dec]([dec]) vlan [dec] state [dec]

Explanation This message indicates that the attempt to save the VLAN spanning tree state change on the trunk was lost while updating. [dec] / [dec]([dec]) is the module number/port number (the port number is stored internally), vlan [dec] is the VLAN number, and state [dec] is the lost spanning tree state (0=disabled, 1=listening, 2=learning, 3=forwarding, and 4=blocking).

Recommended Action Contact your technical support representative.

Error Message PRUNING-2-LOSTST2: set: lost trunk [dec]/[dec]([dec]) vlan [dec] state [dec]

Explanation This message indicates that the attempt to save the VLAN spanning tree state change on the trunk was lost while setting. [dec] / [dec]([dec]) is the module number/port number (the port number is stored internally), vlan [dec] is the VLAN number, and state [dec] is the lost spanning tree state (0=disabled, 1=listening, 2=learning, 3=forwarding, and 4=blocking).

Recommended Action Contact your technical support representative.

Error Message PRUNING-2-LOSTSTCHG: vlan state change: can't find trunk (index=[hex])

Explanation This message indicates that the trunk could not be found while the VLAN pruning state changed. [hex] is the index for the lost trunk.

Recommended Action Contact your technical support representative.

Error Message PRUNING-2-NOVLANBITS: no vlan string for trunk [dec]/[dec] (domain [chars])

Explanation This message indicates an internal error. [dec]/[dec] is the trunk module number/port number, and [chars] is the domain name.

Recommended Action Contact your technical support representative.

Error Message PRUNING-2-SCPWRERR: SCP failed to write LTL on module [dec]

Explanation This message indicates an internal error for the module [dec]. [dec] is the module number.

Recommended Action Contact your technical support representative.

PRUNING-3

Error Message PRUNING-3-INVTLV: rx summary on trunk [chars] with invalid TLV value: [hex]

Explanation This message indicates that some other VTP device has internal errors. [chars] is the trunk module number/port number, and [hex] is the invalid value.

Recommended Action Locate the VTP device with the internal error. Disable and then enable the trunk port. If the message reappears, contact your technical support representative.

Error Message PRUNING-3-JOININVFSTV: Join rx on trunk [chars]-invalid first vlan: [dec]

Explanation This message indicates that some other VTP device has internal errors. [chars] is the trunk module number/port number, and [dec] is the invalid first VLAN number.

Recommended Action Locate the VTP device with the internal error. Disable and then enable the trunk port. If the message reappears, contact your technical support representative.

Error Message PRUNING-3-JOININVLEN: Join rx on trunk [chars]-invalid len: [dec] ([dec])

Explanation This message indicates that some other VTP device has internal errors. [chars] is the trunk module number/port number, [dec] is the number of the actual packet length, and the second ([dec]) is the invalid packet length.

Recommended Action Locate the VTP device with the internal error. Disable and then enable the trunk port. If the message reappears, contact your technical support representative.

Error Message PRUNING-3-JOININVLSTV: Join rx on trunk [chars]-invalid last vlan: [dec]

Explanation This message indicates that some other VTP device has internal errors. [chars] is the trunk module number/port number, and [dec] is the invalid last VLAN number.

Recommended Action Locate the VTP device with the internal error. Disable and then enable the trunk port. If the message reappears, contact your technical support representative.

Error Message PRUNING-3-NOMEM: no memory to build trunk [dec]/[dec] info for dependent code

Explanation This message indicates that no system memory is available and the internal status for the specified trunk will be lost. [dec]/[dec] is the module number/port number.

Recommended Action Upgrade the system memory (RAM) size.

Error Message PRUNING-3-NOSCPMEM: failed to allocate scpmsg buffer
vtp_dep_vlan_state_change-notification

Explanation This message occurs when VTP tries to allocate memory, but there is insufficient memory.

Recommended Action Contact your technical support representative.

Error Message PRUNING-3-SCPSENDERR: SCP send error: [chars] [dec]

Explanation This message indicates an internal error when the supervisor engine communicates with the modules. [chars] is the last logged debug message, and [dec] is the last logged debug value.

Recommended Action Contact your technical support representative.

PRUNING-4

Error Message PRUNING-4-INVASSOC: invalid vlan local assoc: [hex] (domain [chars])

Explanation This message indicates that an intermediate error has occurred and VTP pruning might or might not work on the trunk. [hex] is the VLAN local association value, and ([chars]) is the domain name.

Recommended Action Enter the **show trunk** command to verify that VTP pruning is working for the trunk. If it is not working, disable and then enable the trunk port. If the message reappears, contact your technical support representative.

Error Message PRUNING-4-INVLNKST: invalid link state: [hex]

Explanation This message indicates a trunk link is set to an invalid state. [hex] is the invalid state value.

Recommended Action Contact your technical support representative.

Error Message PRUNING-4-INVPMODE: invalid pruning mode: [hex]

Explanation This message indicates that an intermediate error occurred and VTP pruning may or may not work on that trunk. [hex] is the pruning mode value.

Recommended Action Disable and then enable the trunk port. If the message reappears, contact your technical support representative.

Error Message PRUNING-4-INVSPSTST: invalid SPT state: [hex]

Explanation This message indicates that an intermediate spanning tree (SPT) error occurred and VTP pruning might or might not work on the trunk. [hex] could be one of the following errors:

```
invalid link state: link state value  
vlan [vlan no] not found [domain name]
```

invalid SPT state: [spt state value]

Recommended Action Enter the **show trunk** command to verify that VTP pruning is working for that trunk. If it is not working, disable and then enable the trunk port. If the message reappears, contact your technical support representative.

Error Message PRUNING-4-LOSTASSOCEVT: lost vlan local assoc event
(vlan=[dec], assoc=[dec])

Explanation This message indicates that an internal event was lost due to insufficient buffer memory. vlan=[dec] is the VLAN number, and assoc=[dec] is the local association status.

Recommended Action No action is necessary. This message is provided for information only.

Error Message PRUNING-4-LOSTGVRPEVT: lost gvrp trunk change event (vlan=[dec])

Explanation This message indicates that GVRP wants to send a join/leave request to VTP, but the VTP is either not running or the VTP queue is full. [dec] is the VLAN number.

Recommended Action Contact your technical support representative.

Error Message PRUNING-4-LOSTSPTEVT: lost spt state event
(trunk=[dec]/[dec], vlan=[dec], state=[dec])

Explanation This message indicates an internal event was lost due to insufficient buffer memory. trunk=[dec]/[dec] is the module number/port number, vlan=[dec] is the VLAN number, and state=[dec] is the Spanning Tree Protocol status.

Recommended Action No action is necessary. This message is provided for information only.

Error Message PRUNING-4-NOBUF: no mbuf to build join

Explanation This message indicates that no buffer memory is available for VTP pruning.

Recommended Action Contact your technical support representative.

Error Message PRUNING-4-NODOMAIN: domain [chars]([dec]) not found

Explanation This message indicates an intermediate configuration mismatch. [chars] is the domain name, and ([dec]) is the domain name length.

Recommended Action Contact your technical support representative if the message appears repeatedly.

Error Message PRUNING-4-NOTRUNK: trunk [dec]/[dec] not found (domain [chars])

Explanation This message indicates that an intermediate error occurred and VTP pruning might or might not work on the trunk. [dec]/[dec] is the trunk module number/port number, and ([chars]) is the domain name.

Recommended Action Enter the **show trunk** command to verify that VTP pruning is working for the trunk. If it is not working, disable and then enable the trunk port. If the message reappears, contact your technical support representative.

Error Message PRUNING-4-NOVLAN: vlan [dec] not found (domain [chars])

Explanation This message indicates that the VLAN was not found. [dec] is the VLAN number, and ([chars]) is the domain name.

Recommended Action Contact your technical support representative.

PRUNING-5

Error Message PRUNING-5-BOGUSTIMEOUT: bogus timeout for trunk [chars]

Explanation This message indicates that an internal notification occurred on a trunk. [chars] is the module number/port number of the trunk.

Recommended Action No action is necessary. This message is provided for information only.

Error Message PRUNING-5-CHGPMODE: change domain [chars] pruning mode to [chars]

Explanation This message indicates a change to the VTP pruning mode. The first [chars] is the domain name, and the second [chars] is enabled or disabled.

Recommended Action No action is necessary. This message is provided for information only.

Error Message PRUNING-5-JOINDIFFDOMAIN: domain [chars] not found in rx Join (trunk [dec]/[dec])

Explanation This message indicates that some other VTP device is assigned to a different domain. [chars] is the domain name, and (trunk [dec]/[dec]) is the module number/port number.

Recommended Action Check other VTP devices assigned to a different domain. Enter the **clear config all** command for the devices, and then assign the correct domain name.

Error Message PRUNING-5-JOINDISCARD: rx Join on trunk [dec]/[dec] when pruning disabled

Explanation This message indicates that VTP inconsistency exists in the network. trunk [dec]/[dec] is the module number/port number.

Recommended Action Check other devices to find out where the inconsistency exists and correct.

Error Message PRUNING-5-JOINNONAME: no domain name in rx Join (trunk [dec]/[dec])

Explanation This message indicates that some other VTP device may have internal errors. (trunk [dec]/[dec]) is the module number/port number.

Recommended Action Check other VTP devices for internal errors. If no errors are found, contact your technical support representative.

Error Message PRUNING-5-JOINNOTRUNK: trunk [dec]/[dec] not found for rx Join

Explanation This message indicates that an intermediate error occurred. trunk [dec]/[dec] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message PRUNING-5-LEARNDOMAIN: learn domain [chars] from network

Explanation This message indicates that the VTP domain is learned from another VTP device. [chars] is the domain name.

Recommended Action No action is necessary. This message is provided for information only.

Error Message PRUNING-5-RECOVASSOC: Recover from local assoc event loss

Explanation This message indicates that the software recovers automatically from an internal event loss.

Recommended Action No action is necessary. This message is provided for information only.

Error Message PRUNING-5-RECOVSPT: recover from spt event loss for trunk [dec]/[dec]

Explanation This message indicates that the software recovers automatically from an internal event loss. [dec]/[dec] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message PRUNING-5-VLANJOINED: Joined-trunk [dec]/[dec] vlan [dec]

Explanation This message indicates that the VLAN on the trunk is not pruned. [dec]/[dec] is the module number/port number, and vlan [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message PRUNING-5-VLANPRUNED: Pruned-trunk [dec]/[dec] vlan [dec]

Explanation This message indicates that the VLAN on the trunk is pruned. [dec]/[dec] is the module number/port number, and vlan [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

PRUNING-6

Error Message PRUNING-6-FSMSTCHG: T[chars],V[dec]:st=[chars],event=[chars],new st=[chars]

Explanation This message indicates the state change of a VLAN on a trunk, where the following applies:

- T[chars] is the trunk module number and port number.
- V[dec] is the VLAN number [vlan_id].
- st=[chars] is the current state [state], where [chars] could be Null, Disable, NoPrune, Joined, or Pruned.
- event=[chars] is the event [event], where [event] could be Null, RxVer1, RxJ1, RxJ0, Fwd, NonFwd, Tick, Tmo, LnkDn, LnkUp, Inelig, Eligi, Trans, NoTran, AddTrk, or Refrsh.
- new st=[chars] is the new state [state], where [state] could be Null, Disable, NoPrune, Joined, or Pruned.

Recommended Action No action is necessary. This message is provided for information only.

Error Message PRUNING-6-TRIGJOIN: trunk [chars]- send trig Join

Explanation This message indicates that a VTP pruning message is triggered on the trunk due to a VLAN status change. [chars] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

QoS Messages

This section contains the quality of service (QoS) messages.

QOS-3

Error Message QOS-3-ACL_DEFINEFAIL: Unable to define ACL [chars]. Error is [chars]

Explanation This message indicates that the system was unable to define the ACL. The first [chars] is the name of the ACL list, and the second [chars] is the error message.

Recommended Action Contact your technical support representative.

Error Message QOS-3-ACL_MAPPORTFAIL: Unable to map ACL [chars] to port [dec]/[dec]. Error is [chars]

Explanation This message indicates that the ACL specified could not be mapped to the port. ACL [chars] is the access control list identifier, [dec]/[dec] is the module number/port number, and the second [chars] is the error message.

Recommended Action Contact your technical support representative.

Error Message QOS-3-ACL_MAPVLANFAIL: Unable to map ACL [chars] to VLAN [dec]. Error is [chars]

Explanation This message indicates that the ACL specified could not be mapped to the VLAN. ACL [chars] is the access control list identifier, [dec] is the VLAN number, and the second [chars] is the error message.

Recommended Action Contact your technical support representative.

Error Message QOS-3-ACL_UNMAPPORTFAIL: Unable to unmap ACL [chars] to port [dec]/[dec]. Error is [chars]

Explanation This message indicates that the specified QoS ACL map could not be cleared from the port. ACL [chars] is the access control list identifier, [dec]/[dec] is the module number/port number, and the second [chars] is the error message.

Recommended Action Contact your technical support representative.

Error Message QOS-3-ACL_UNMAPVLANFAIL: Unable to unmap ACL [chars] to VLAN [dec]. Error is [chars]

Explanation This message indicates that the specified QoS ACL map could not be cleared from the VLAN. ACL [chars] is the access control list identifier, [dec] is the VLAN number, and the second [chars] is the error message.

Recommended Action Contact your technical support representative.

Error Message QOS-3-CLRSTATSFMAIL: Unable to clear statistics on port [dec]/[dec]

Explanation This message indicates that the system was unable to clear the statistics information from a port. [dec]/[dec] is the module number and port number.

Recommended Action Contact your technical support representative.

Error Message QOS-3-GETCOSCOSMAPFAIL: Unable to get CoS to CoS map on [dec]/[dec].
Error code [dec]

Explanation This message indicates a failure to read the class of service (CoS) to a CoS map of a port. [dec]/[dec] is the module number/port number. The second [dec] is the error code number.

Recommended Action Check the module for hardware problems. If a problem is not obvious, contact your technical support representative.

Error Message QOS-3-GETCOSMAPFAIL: Unable to get CoS map on [dec]/[dec]

Explanation This message indicates a failure to read the class of service (CoS) map of a port. [dec]/[dec] is the module number/port number.

Recommended Action Check the module for hardware problems. If a problem is not obvious, contact your technical support representative.

Error Message QOS-3-GETDEF COSFAIL: Unable to get default CoS on port [dec]/[dec]

Explanation This message indicates a failure to read the module port default CoS. [dec]/[dec] is the module number/port number.

Recommended Action Check the module for hardware problems. If a problem is not obvious, contact your technical support representative.

Error Message QOS-3-GETIPPRECMAPENFAIL: Unable to get enable/disable mapping of IP precedence to CoS

Explanation This message indicates a failure to read the enable or disable state of the IP precedence to CoS mapping from the forwarding engine.

Recommended Action Check the module for hardware problems. If a problem is not obvious, contact your technical support representative.

Error Message QOS-3-GETIPPRECMAPFAIL: Unable to get mapping of IP precedence to CoS

Explanation This message indicates a failure to read the IP precedence to CoS mapping from the forwarding engine.

Recommended Action Check the module for hardware problems. If a problem is not obvious, contact your technical support representative.

Error Message QOS-3-GETPORTERRSTATSFALL: Unable to retrieve QoS error statistics for port [dec]/[dec]

Explanation This message indicates a failure to read the module port error statistics. [dec]/[dec] is the module number/port number.

Recommended Action Check the module for hardware problems. If a problem is not obvious, contact your technical support representative.

Error Message QOS-3-GETRXQSIZEFAIL: Unable to get receive queue sizes on [dec]/[dec]. Error code [dec]

Explanation This message indicates that the switch was unable to query the absolute values and the percentage values for the queue sizes of a particular port. [dec]/[dec] is the module number/port number, and [dec] is error code message.

Recommended Action No action is necessary. This message is provided for information only.

Error Message QOS-3-GETRXTHRFAIL: Unable to get receive threshold on [dec]/[dec]

Explanation This message indicates a failure to read the receive thresholds of the module port. [dec]/[dec] is the module number/port number.

Recommended Action Check the module for hardware problems. If a problem is not obvious, contact your technical support representative.

Error Message QOS-3-GETTRUSTFAIL: Unable to get trust type on [dec]/[dec]

Explanation This message indicates a failure to read the module port trust type. [dec]/[dec] is the module number/port number.

Recommended Action Check the module for hardware problems. If a problem is not obvious, contact your technical support representative.

Error Message QOS-3-GETTXQSIZEFAIL: Unable to get transmit queue sizes on [dec]/[dec]

Explanation This message indicates a failure to read the transmit queue sizes on the module port. [dec]/[dec] is the module number/port number.

Recommended Action Check the module for hardware problems. If a problem is not obvious, contact your technical support representative.

Error Message QOS-3-GETTXTHRFAIL: Unable to get transmit threshold on [dec]/[dec]

Explanation This message indicates a failure to read the transmit thresholds of the module port. [dec]/[dec] is the module number/port number.

Recommended Action Check the module for hardware problems. If a problem is not obvious, contact your technical support representative.

Error Message QOS-3-GETWRRFAIL: Unable to get WRR on [dec]/[dec]

Explanation This message indicates a failure to read the weighted round-robin weights of the module port. [dec]/[dec] is the module number/port number.

Recommended Action Check the module for hardware problems. If a problem is not obvious, contact your technical support representative.

Error Message QOS-3-NOMEM: QoS: ERROR - Unable to allocate memory for SCP message to [dec]/[dec]

Explanation This message indicates that there was insufficient memory for QoS to be configured. [dec]/[dec] is the module number/port number.

Recommended Action Reset the system. If the message reappears, contact your technical support representative.

Error Message QOS-3-POLICER_AGGFULL: Out of Aggregate policers. Failed to allocate [chars]

Explanation This message indicates the switch is unable to allocate aggregate policers in the software. The software allows you to store a greater number of policer definitions than can be stored in the hardware, allowing you to choose the policers that are actually mapped to the hardware. The actual process of creating policers in hardware is performed when a corresponding ACL is mapped to an interface. [chars] is the policer.

Recommended Action No action is necessary. This message is provided for information only.

Error Message QOS-3-POLICER_AGGUFFAIL: Aggregate [chars] - Microflow [chars] combination is not available at this time.

Explanation This message indicates that the specific combination of aggregate policer and microflow policer that are used by the ACL being configured cannot be supported by the hardware. The first [chars] is the aggregate name, and the second [chars] is the policer name.

Recommended Action This is a hardware limitation. No action is necessary. This message is provided for information only.

Error Message QOS-3-POLICER_HWAGGFULL: Out of Hardware Aggregate policers. Failed to allocate [chars]

Explanation This message indicates that no more aggregate policer entries are available in the hardware. The maximum limit is 1023; however, the actual number might be less because of underutilization of aggregate policer entries. [chars] is the policer.

Recommended Action No action is necessary. This message is provided for information only.

Error Message QOS-3-POLICER_HWUFFULL: Out of Hardware Microflow policers. Failed to allocate [chars]

Explanation This message indicates that no more microflow policer entries are available in the hardware. The maximum limit is 64, but the actual number might be less. [chars] is the policer.

Recommended Action No action is necessary. This message is provided for information only.

Error Message QOS-3-POLICER_UFFULL: Out of Microflow policers. Failer to allocate [chars]

Explanation This message indicates that the software has run out of microflow policers. The current maximum is 64. [chars] is the policer.

Recommended Action No action is necessary. This message is provided for information only.

Error Message QOS-3-QOS_CONFIG_MISMATCH: QoS: Unable to configure module [dec], NVRAM QoS configuration incompatible, module is disabled

Explanation This message indicates that the system has detected an invalid QoS NVRAM configuration. This situation can be caused by swapping Layer 2 and Layer 3 switching engines. [dec] is the failing module number.

Recommended Action Contact your technical support representative.

Error Message QOS-3-SCPERR: SCP failure on message with opcode 0x[hex], errcode=[dec]. Error Code [dec]

Explanation This message indicates that the QoS setting of the module failed. opcode [hex] is the opcode value and error code [dec] is the error code value.

Recommended Action Contact your technical support representative. The technical support representative will request the opcode and error code values reported by the message.

Error Message QOS-3-SETCOSCOSMAPFAIL: Unable to set CoS to CoS map on module [dec]. Error code [dec]

Explanation This message indicates that desired CoS-to-CoS map could not be set on the module port. [dec] is the module number, and the second [dec] is the error code number.

Recommended Action Check the module for hardware problems. If a problem is not obvious, contact your technical support representative.

Error Message QOS-3-SETCOSMAPFAIL: Unable to set CoS map on module [dec]

Explanation This message indicates that the desired CoS map could not be set on the module. [dec] is the module number.

Recommended Action Check the module for hardware problems. If a problem is not obvious, contact your technical support representative.

Error Message QOS-3-SETDEFCSFAIL: Unable to set default CoS on port [dec]/[dec]

Explanation This message indicates that the desired default CoS could not be set on the module port. [dec]/[dec] is the module number/port number.

Recommended Action Check the module for hardware problems. If a problem is not obvious, contact your technical support representative.

Error Message QOS-3-SETFLOWMASKFAIL: Unable to set flow mask to [chars]

Explanation This message indicates that the system was unable to set the flow mask. [chars] is the system identifier.

Recommended Action Contact your technical support representative.

Error Message QOS-3-SETIPPRECMAPENFAIL: Unable to enable/disable mapping of IP precedence to CoS

Explanation This message indicates that the IP precedence to the CoS mapping function could not be enabled or disabled in the forwarding engine.

Recommended Action Check the module for hardware problems. If a problem is not obvious, contact your technical support representative.

Error Message QOS-3-SETIPPRECMAPFAIL: Unable to set mapping of IP precedence to CoS

Explanation This message indicates that the desired IP precedence to CoS mapping could not be set in the forwarding engine.

Recommended Action Check the module for hardware problems. If a problem is not obvious, contact your technical support representative.

Error Message QOS-3-SETPORTQOSTYPEFAIL: Unable to set port qos type on port [dec]/[dec]. Error code [dec]

Explanation This message indicates that the system was not able to set the QoS type on a particular port. [dec]/[dec] is the module number/port number, and [dec] is the error code number.

Recommended Action Contact your technical support representative.

Error Message QOS-3-SETRXQSIZEFAIL: Unable to set receive queue sizes on module [dec]. Error code [dec]

Explanation This message indicates that the desired receive queue sizes could not be set on the module. [dec] is the module number.

Recommended Action Check the module for hardware problems. If a problem is not obvious, contact your technical support representative.

Error Message QOS-3-SETRXTHRFAIL: Unable to set receive threshold on module [dec]

Explanation This message indicates that the desired receive thresholds on the module could not be set. [dec] is the module number.

Recommended Action Check the module for hardware problems. If a problem is not obvious, contact your technical support representative.

Error Message QOS-3-SETTRUSTFAIL: Unable to set trust type on [dec]/[dec]

Explanation This message indicates that the desired trust type could not be set on the module. [dec]/[dec] is the module number/port number.

Recommended Action Check the module for hardware problems. If a problem is not obvious, contact your technical support representative.

Error Message QOS-3-SETTXQSIZEFAIL: Unable to set transmit queue sizes on module [dec]

Explanation This message indicates that the desired transmit queue sizes could not be set on the module. [dec] is the module number.

Recommended Action Check the module for hardware problems. If a problem is not obvious, contact your technical support representative.

Error Message QOS-3-SETTXTHRFAIL: Unable to set transmit threshold on module [dec]

Explanation This message indicates that the desired transmit thresholds on the module could not be set. [dec] is the module number.

Recommended Action Check the module for hardware problems. If a problem is not obvious, contact your technical support representative.

Error Message QOS-3-SETWRRFAIL: Unable to set WRR on module [dec]

Explanation This message indicates that the desired weight for the weighted round-robin (WRR) could not be set on the module. [dec] is the module number.

Recommended Action Check the module for hardware problems. If a problem is not obvious, contact your technical support representative.

QOS-4

Error Message QOS-4-DEVICE_CDP_DIS: Port [dec]/[dec] configured for trust-device with CDP disabled

Explanation This message indicates that Cisco Discovery Protocol (CDP) is not enabled on a port configured for trust-device. [dec]/[dec] is the module number/port number.

Recommended Action Enable CDP.

Error Message QOS-4-DEVICE_UNTRUSTED: Trust-Device feature enabled on port(s) [chars] with port trust set to untrusted

Explanation This message indicates that a port trust is set to untrusted and that the trust-device feature is enabled for that port. Features on that port will not function if the port configuration trust is set to untrusted. [chars] is the module number and port number.

Recommended Action Contact your technical support representative

Error Message QOS-4-HASWITCH: WARNING - QoS runtime information may be inconsistent for a short period after switchover

Explanation This message indicates that for a short period of time after a switchover, any commands relating to QoS might display values not consistent with the current hardware settings.

Recommended Action No action is necessary. This message is provided for information only.

QOS-5

Error Message QOS-5-COSMUTATED: Output codepoint mutation performed on Vlan Mapped Id [dec]. Outputted scheduling based on the mutated CoS.

Explanation This message indicates that the CoS used for scheduling is based on a mutated DSCP. The prioritization within a QoS domain should be performed using the DSCP of the current domain instead of using the mutated DSCP, but the hardware cannot accomplish this task. [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message QOS-5-DEVICE_DETECTED: ciscoipphone detected on port [dec]/[dec], port set to [chars]

Explanation This message indicates that a change has occurred in port trust status. [dec]/[dec] is the module number/port number, and [chars] is the new trust type for the port as specified in the configuration.

Recommended Action No action is necessary. This message is provided for information only.

Error Message QOS-5-DEVICE_LOST: ciscoipphone no longer detected on port [dec]/[dec], port set to untrusted

Explanation This message indicates that a previously enabled feature on a port is no longer detected on that port. This message indicates that the device has left and that the port trust state has changed. [dec]/[dec] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message QOS-5-DISABLED: QoS has been disabled on switch

Explanation This message indicates that the QoS feature has been disabled.

Recommended Action No action is necessary. This message is provided for information only.

Error Message QOS-5-ENABLE_BRIDGEPOL: Bridged microflow policing must be enabled in order for policing to occur for multicast flows.

Explanation This message indicates that bridged microflow policing has been enabled so that policing can occur for multicast flows.

Recommended Action No action is necessary. This message is provided for information only.

Error Message QOS-5-ENABLED: QoS has been enabled on switch

Explanation This message indicates that the QoS feature has been enabled.

Recommended Action No action is necessary. This message is provided for information only.

Error Message QOS-5-POLICER_DSCPMISMATCH: Mismatch in DSCP specified for aggregate policer [chars]. Mismatching DSCP=[dec]

Explanation This message indicates that two different DSCP values were associated with the same aggregate policer. [chars] is the aggregate policer, and [dec] is the mismatched value.

Recommended Action No action is necessary. This message is provided for information only.

Error Message QOS-5-POLICER_TRSTMISMATCH: Mismatch in Trust specified for aggregate policer [chars]. Mismatching Trust = [chars]

Explanation This message indicates that the aggregate policer is being used by two different ACEs and ACLs that have different ACL trust values. The first [chars] is the policer, and the second [chars] is the mismatching trust value.

Recommended Action Either set the trust values the same or do not use the aggregate policer with both ACLs and ACEs.

RADIUS Messages

This section lists the Remote Authentication Dial-In User Service (RADIUS) messages.

RADIUS-2

Error Message RADIUS-2-NOSERVERS: No Radius servers configured

Explanation This message indicates that RADIUS is enabled, but no servers are configured.

Recommended Action Configure a RADIUS server.

Error Message RADIUS-2-SRVRNORESP: Unable to contact RADIUS server

Explanation This message indicates that RADIUS is enabled, but the switch was unable to contact the RADIUS server.

Recommended Action Verify that the RADIUS server was set up correctly from the switch.

RADIUS-3

Error Message RADIUS-3-REQUESTSENDFAIL: Request send error, bytes sent [dec], expected [dec]

Explanation This message indicates that there was a packet transmit error. sent [dec] is the number of packets transmitted, and expected [dec] is the number of packets expected to be sent.

Recommended Action Contact your technical support representative.

Error Message RADIUS-3-RESPONSERECVFAIL: Response receive error, bytes received [dec], expected [dec]

Explanation This message indicates that there was a packet receive error. Received [dec] is the number of packets received, and expected [dec] is the number of packets expected.

Recommended Action Contact your technical support representative.

Error Message RADIUS-3-SENDACCTFAIL: Fail to send out accounting information to configured Radius server(s)

Explanation This message indicates that accounting information was not received from the RADIUS server or servers.

Recommended Action Verify that the switch and the RADIUS server have the correct configurations. Contact your technical support representative.

Error Message RADIUS-3-SOCKETFAIL: Radius socket error

Explanation This message indicates that an attempt to open a socket failed, possibly due to insufficient resources.

Recommended Action Contact your technical support representative.

RADIUS-4

Error Message RADIUS-4-RADIUS_SERVER_DNS_FIND_FAIL: Unable to contact RADIUS server, DNS is disable

Explanation You can access the RADIUS server using a name other than the IP address. However, if the name fails to work because of an inability to reach the DNS server, you receive this message.

Recommended Action Use the IP address or another name to access the RADIUS server.

RADIUS-5

Error Message RADIUS-5-ALLDEADSERVER: All Radius servers dead: identification [dec]

Explanation This message indicates that the system is unable to establish connection with any of the RADIUS servers. [dec] is the identification number of the RADIUS request packet.

Recommended Action Check the network connectivity.

Error Message RADIUS-5-SERVERALIVE: Radius server [dec] alive

Explanation This message indicates that a message was successfully received from the RADIUS server. [dec] is the IP address of the RADIUS server.

Recommended Action No action is necessary. This message is provided for information only.

Error Message RADIUS-5-RADIUS_SESSION_TIMEOUT: Session Timeout received from RADIUS on port [mod]/[port] not in the range of [dec] to [dec]

Explanation This message indicates that the session timeout received from RADIUS on port [mod]/[port] is not within the permitted limits.

Recommended Action Configure a proper session timeout value on the RADIUS.

RSVP Messages

This section contains Resource ReSerVation Protocol (RSVP) messages.

RSVP-3

Error Message RSVP-3-ATTACHFAILED: Unable to attach RSVP Acl

Explanation This message indicates that RSVP is unable to attach an Access Control List (ACL) in the hardware in response to a Common Open Policy Service (COPS) decision to install the ACL. This situation can occur when a section of the TCAM allocated to dynamic ACLs is full, or when some other error occurs in the QoS module or ACL manager module. By enabling syslog messages for these two features, you can obtain additional information about the failure.

Recommended Action Contact your technical support representative.

RSVP-4

Error Message RSVP-4-DISCARDPATH: Input Path msg discarded

Explanation This message indicates that a received Path message is discarded before processing. This situation can occur when a burst of RSVP messages is received and the RSVP event queue is almost full. The COPS server might be overloaded and might not respond to requests regarding flows already in the database. New flows in the database are not accepted until the number of outstanding requests decreases.

Recommended Action No action is necessary. This message is provided for information only.

Error Message RSVP-4-MISSINGL2HOP: Missing or invalid NHOP_L2 in Path msg - dropping msg

Explanation This message indicates that a received Path message to be forwarded downstream does not contain a properly filled NHOP_L2 object as required by the Subnet Bandwidth Manager (SBM) specifications. The switch does not know the MAC address of the next hop and cannot find the correct output port.

Recommended Action Contact your technical support representative.

RSVP-6

Error Message RSVP-6-PDPCLOSEDCONN: PDP closed connection - flushing policy

Explanation This message indicates that a COPS Client Close message is received from the COPS server. When this occurs, the switch flushes its RSVP database and detaches all installed ACLs. A new connection to the COPS server is attempted.

Recommended Action Contact your technical support representative.

Error Message RSVP-6-PDPUP: New connection made to COPS server

Explanation This message indicates that the COPS server responds with a COPS Client Accept message to a Client Open message sent by the switch. This indicates that an active COPS connection is present.

Recommended Action No action is necessary. This message is provided for information only.

Error Message RSVP-6-POLICYTTLEXPRIED: Disconnected from PDP: Policy timer expired

Explanation This message indicates that the connection to the COPS server is lost. The switch caches the downloaded policy and tries to reconnect for a preset amount of time. After the timer expires, the switch flushes the RSVP database and continues trying to connect to the COPS server.

Recommended Action No action is necessary. This message is provided for information only.

Error Message RSVP-6-RSVPEXITING: RSVP Exiting

Explanation This message indicates that RSVP is disabled or QoS is disabled.

Recommended Action No action is necessary. This message is provided for information only.

Error Message RSVP-6-UNKNOWNOUTPORT: Unknown output port for Path msg - flooding on VLAN

Explanation This message indicates that the switch fails to learn the port that corresponds to a MAC address as specified in the L2_NHOP object. The message is sent out on all ports of that VLAN.

Recommended Action No action is necessary. This message is provided for information only.

SECURITY Messages

This section contains the security messages.

SECURITY-1

Error Message SECURITY-1-DOT1X_ACL_NON_IP_ACL: DOT1X: ACL [chars] is not a IP ACL

Explanation This message indicates that the RADIUS sent an ACL name that is not an IP ACL, which causes authentication to fail. 802.1X supports only the IP ACL assignment (not MAC/IPX ACLs). [chars] is the ACL name received.

Recommended Action Ensure that RADIUS sends an ACL that is an IP ACL.

Error Message SECURITY-1-DOT1X_ACL_PORT_PORTBASED_MODE: DOT1X: Port [dec]/[dec] in port based mode

Explanation This message indicates that the RADIUS sent a VACL to be mapped onto the VLAN, but the 802.1X port is in security ACL port-based mode, and authentication fails. The first [dec] is the module number, and the second [dec] is the port number.

Recommended Action If you configured the ACL mode as port-based, and the VACL is received from RADIUS, the 802.1X port will be unauthorized. Change the mode to VLAN-based.

Error Message SECURITY-1-DOT1X_BACKEND_SERVER: No Radius servers configured

Explanation This message indicates that one of the following three possible conditions has occurred: The 802.1X system-auth-control is enabled and all radius servers have been cleared from the CLI; the 802.1X system-auth-control is enabled, and the radius servers are removed one by one leaving no primary radius server; or no radius server is configured and 802.1X system-auth-control is enabled.

Recommended Action Configure the radius server using the **set radius** command. At least one valid WAP-RADIUS server should be configured for 802.1X to do authentication.

Error Message SECURITY-1-MACAUTH_PORT_UNAUTHORIZED_EARL_FAILURE: MacAuth Port [dec]/[dec] unauthorized due to EARL failure while adding an entry

Explanation This message indicates that the switch failed to install an EARL entry for a given MAC address. [dec]/[dec] is the module number/port number.

Recommended Action Reinitialize the affected port.

Error Message SECURITY-1-PORT_ACL_MAPPED: DOT1X: Port [dec]/[dec] already has a user mapped ACL

Explanation This message indicates that an 802.1X port received an ACL name from the ACS as part of an Access Accept packet and you have already mapped a different ACL name to the port. 802.1X will fail to apply the received ACL name from the ACS, and the syslog is displayed. [dec]/[dec] is the module number/port number.

Recommended Action Unmap the ACL from the 802.1X port.

Error Message SECURITY-1-DOT1X_PORT_DUP_IPADDR: Dot1xPort port [dec]/[dec] shutdown because of duplicate IP address [chars] on [dec]/[dec]

Explanation This message indicates that the DHCP snooping assigns IP addresses to different ports. IP address assignment is also performed by the RADIUS FIP attribute. This message indicates that 802.1X has seen the same IP address on two different ports and it has shut down the second port.

Recommended Action Determine why the same IP address has appeared on two different ports. The shutdown port is assumed to spoof the IP address appearing on the first port.

Error Message SECURITY-1-PORT_PAACL_MAP: DOT1X: ACL [chars] mapped successfully to port [dec]/[dec]

Explanation This message indicates that an 802.1X port receives an ACL name from the ACS as part of an Access Accept packet and its mapping to the port is successful. [chars] is the mapped ACL name and [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SECURITY-1-DOT1X_PORT_SHUTDOWN: Dot1xPort port [dec]/[dec] shutdown because of dot1x security violation by [chars]

Explanation This message indicates that an 802.1X port is shut down because of a security violation. An example is when a port is configured in single-host mode and the system has detected a MAC address on the port that is different from the authorized port MAC address. [dec]/[dec] is the module number/port number, and [chars] is the error message.

Recommended Action Remove multiple hosts connected to the port because only one host is allowed on the port. You can also enable the multiple-host option on the port using the **set port dot1x mod/port multiple-host enable** command.

Error Message SECURITY-1-DOT1X_PORT_UNAUTHORIZED_EARL_FAILURE: Dot1xPort [dec]/[dec] unauthorized due to EARL failure while adding an entry

Explanation This message indicates that the system was unable to add the supervisor engine MAC address from the VLAN to EARL. [dec]/[dec] is the module number/port number.

Recommended Action Contact your technical support representative.

Error Message SECURITY-1-DOT1X_PORT_VACL_DIFFERENT: DOT1X: port [dec]/[dec] already has a different ACL mapped to vlan [dec]

Explanation This message indicates that an 802.1X port receives an ACL name from the ACS as part of the Access Accept packet and you have already mapped a different ACL name to the VLAN. 802.1X will fail to apply the received ACL name from the ACS, and the syslog will be displayed. [dec]/[dec] is the module number/port number, and the last [dec] is the VLAN number.

Recommended Action Unmap the ACL from the 802.1X port.

Error Message SECURITY-1-DOT1X_PORT_VACL_MAP: DOT1X: ACL [chars] mapped successfully to vlan [dec]

Explanation This message indicates that an 802.1X port receives an ACL name from the ACS as part of the Access Accept packet and its mapping to the VLAN is successful. [chars] is the mapped ACL name, and [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SECURITY-1-MAC_AUTH_MAC_MOVE_PORT_SHUTDOWN: MAC address [chars] secured on different port, shutting down [dec]/[dec]

Explanation This message indicates that an already secured MAC address appears on another port. [chars] is the MAC address, and [dec]/[dec] is the module/port that was shut down.

Recommended Action Determine why there is MAC movement and isolate the MAC address if this happens frequently. You can also try enabling the shutdown-timeout feature to automatically reenab the port.

Error Message SECURITY-1-MAC_AUTH_PORT_SHUTDOWN: New MAC address [chars] seen on port [dec]/[dec], shutting down

Explanation This message indicates that a second MAC address other than the authenticated MAC address is seen on the port. [chars] is the new MAC address and [dec]/[dec] is the module/port number.

Recommended Action Determine what the new MAC address is and isolate the problem. You can also try enabling the shutdown-timeout feature to automatically reenab the port.

Error Message SECURITY-1-PORTSHUTDOWN: Port [dec]/[dec] shutdown due to [chars]

Explanation This message indicates that a port has been shut down due to an insecure host sourcing a packet into that port. [dec]/[dec] is the module number/port number of the port that has shut down, and [chars] can be either a security violation or no space in the forwarding engine lookup table.

Recommended Action Check why the host is sourcing a packet into that port.

Error Message SECURITY-1-PORTINITIALIZED: Port [dec]/[dec] initialized due to security violation by [chars] on VVID enabled port

Explanation This message indicates that an unauthorized MAC address is seen on an authenticated port that has an auxiliary VLAN enabled and the violation mode is *shutdown*. [dec]/[dec] is the mod/port. [chars] is the MAC address.

Recommended Action No action is necessary. This message helps track security violations.

Error Message SECURITY-1-DOT1X_PORT_RESTRICT: Security violation occurred on Port [dec]/[dec] Restricting MAC [chars]

Explanation This message indicates that a unauthorized MAC address is seen on an authenticated port that has an auxiliary VLAN enabled and the violation mode is *restrict*. [dec]/[dec] is the mod/port. [chars] is the MAC address.

Recommended Action No action is necessary. This message helps track security violations.

SECURITY-2

Error Message SECURITY-2-DOT1X_RADIUS_SERVER_INACTIVE: No Active radius server found

Explanation This message indicates that the Dot1x RADIUS keepalive checking feature is enabled and that there are no configured servers or no configured RADIUS servers that are reachable.

Recommended Action No action is required if you are not using security features. If you are using security features, you must configure the RADIUS servers (using the **set radius server** command) and make sure that the RADIUS servers are reachable for security features like Dot1x, LPIP, and MAC Authentication Bypass.

SECURITY-3

Error Message SECURITY-3-DOT1X_ACL_GRPNOTFOUND: DOT1X: Group [chars] not found in Group Database - Port is unauthorized

Explanation This message indicates that a group sent by RADIUS was not found in the group database. [chars] is the missing group name.

Recommended Action Create the group in the group database and try authentication again.

Error Message SECURITY-3-DOT1X_ACL_TCAMFAIL: DOT1X: ACL Manager failed to program TCAM - Port is unauthorized

Explanation This message indicates that the ACL manager failed to make an entry in the TCAM table because the table was full or could not make the entry for some other reason.

Recommended Action Contact your technical support representative.

Error Message SECURITY-3-DOT1X_FAIL_VLAN_INVALID: DOT1X: Auth fail vlan ([dec]) is non-ether for port [dec]/[dec]

Explanation This message indicates that a VLAN configured for users that fail authentication is an invalid VLAN (for example, an internal VLAN or a private VLAN). The first [dec] is the authentication-failure VLAN, the second [dec] is the module number, and the third [dec] is the port number.

Recommended Action Change the authentication-failure VLAN to an Ethernet VLAN.

Error Message SECURITY-3-DOT1X_GUESTVLAN_INVALID: DOT1X:Port [dec]/[dec] is Auxiliary vlan enabled, guest vlan ([dec]) cannot be pvlan

Explanation This message indicates that you have attempted to configure a guest VLAN as a private VLAN on a port that is enabled for auxiliary VLANs. [dec]/[dec] is the module/port number and the third [dec] is the VLAN number.

Recommended Action Remove the auxiliary VLAN on the port or configure a regular VLAN as a guest VLAN.

Error Message SECURITY-3-DOT1X_INACTIVE_VLAN: DOT1X: Inactive auth fail vlan ([dec]) for port [dec]/[dec]

Explanation This message indicates that you have attempted to move a port into a VLAN configured for users that fail authentication when the VLAN is inactive (nonexistent in the VTP database). The first [dec] is the authentication-failure VLAN, the second [dec] is the module number, and the third [dec] is the port number.

Recommended Action Enable the authentication-failure VLAN.

Error Message SECURITY-3-DOT1X_INITIALIZE_VVID_ON_MAC_MOVE: DOT1X: MAC [chars] moved from port [dec]/[dec] to port [dec]/[dec]. [chars] port

Explanation This message indicates that Dot1x has authenticated MAC moves to a different Dot1x-enabled port. Both ports must be VVID-enabled ports. The first [chars] is the MAC address that was moved, the first [dec]/[dec] is the module/port number where the MAC address is authenticated, the second [dec]/[dec] is the module/port number where the system is trying to authenticate the MAC address, and the second [chars] indicates that the port is initializing.

Recommended Action If a MAC move was unexpected, determine the reason for the move.

Error Message SECURITY-3-DOT1X_NONETHERVLAN: DOT1X: Inactive or non-Ethernet vlan [dec] in RADIUS response

Explanation This message indicates that an inactive or non-Ethernet VLAN was detected. [dec] is the VLAN number.

Recommended Action Contact your technical support representative.

Error Message SECURITY-3-DOT1X_PORT_NAMEFAIL: Configuring Port Name Failed, Feature not supported on ([dec]/[dec]) - Port is unauthorized

Explanation This message indicates that an authenticated port name is received from RADIUS on a Network Analysis Module port. Network Analysis Module ports do not support the port name feature. [dec]/[dec] is the module number and port number.

Recommended Action You should remove the port name AV pair on the RADIUS response from this port.

Error Message SECURITY-3-DOT1X_PRIVATEVLAN: DOT1X: Private vlan [dec] in RADIUS response - Port is unauthorized

Explanation This message indicates that the RADIUS authentication for the private VLAN has failed. [dec] is the private VLAN number.

Recommended Action Contact your technical support representative.

Error Message SECURITY-3-DOT1X_PVLAININVALID: DOT1X:Port [dec]/[dec] RADIUS received private vlan ([dec]) is [chars] - Port is unauthorized

Explanation This message indicates that a RADIUS server has sent a private VLAN to a port already enabled for an auxiliary VLAN. [dec]/[dec] is the module/port number, the third [dec] is the VLAN number, and [chars] is the auxiliary VLAN enabled.

Recommended Action Change the configuration on the RADIUS server so that it does not send private VLANs on ports enabled for auxiliary VLANs, or remove the VVID on the port where Dot1x is enabled and the private VLAN is sent from the RADIUS server. Auxiliary VLANs and private VLANs cannot coexist on a port.

Error Message SECURITY-3-DOT1X_QOS_ACLNOTFOUND: DOT1X: Policy [chars] is not pre-configured - Port is unauthorized

Explanation This message indicates that RADIUS has sent an ACL that is not preconfigured on the switch, and authentication fails as a result. [chars] is the policy name.

Recommended Action Configure QoS ACL and try authentication again.

Error Message SECURITY-3-DOT1X_QOS_ACLUNCOMMITTED: DOT1X: Policy [chars] is uncommitted - Port is unauthorized

Explanation This message indicates that the QoS ACL has been created on the switch but has not been committed yet. [chars] is the policy name.

Recommended Action Try to recommit the QoS ACL and authenticate.

Error Message SECURITY-3-DOT1X_QOS_INVALIDARG: DOT1X: [chars] is an invalid argument - Port is unauthorized

Explanation This message indicates that the QoS module received an invalid argument from 802.1X. The authentication will fail. [chars] is the invalid argument.

Recommended Action Try authentication again.

Error Message SECURITY-3-DOT1X_QOS_NOACLATTACHED: DOT1X: Policy not attached to the interface before - Port is unauthorized

Explanation This message indicates that the system failed to attach ACL to an interface.

Recommended Action Verify that another ACL is not already attached to the interface.

Error Message SECURITY-3-DOT1X_QOS_POLICYPORTBASED: DOT1X: Trying to enable vlan-based policy on the interface [dec]/[dec] - Port is unauthorized

Explanation This message indicates that the port is configured for port-based policy, but 802.1X has prompted QoS to install VLAN-based policy. [dec]/[dec] is the module number and port number.

Recommended Action Change the policy to VLAN-based policy and retry authentication.

Error Message SECURITY-3-DOT1X_QOS_POLICYSRCCOPS: DOT1X: COPS enabled on the interface - Port is unauthorized

Explanation This message indicates that the policy has not been taken from 802.1X because COPS is enabled on the port.

Recommended Action Turn off COPS on the port in question and reauthenticate.

Error Message SECURITY-3-DOT1X_QOS_POLICYVLANBASED: DOT1X: Trying to enable port-based policy on the interface [dec]/[dec] - Port is unauthorized

Explanation This message indicates that the port is configured for a VLAN-based policy, but 802.1X has prompted QoS to install a port-based policy. [dec]/[dec] is the module number and port number.

Recommended Action Change the policy to a port-based policy and retry authentication.

Error Message SECURITY-3-DOT1X_QOS_QOSNOTENABLED: DOT1X: QoS not enabled, Enable QoS for AutoQoS to work - Port is unauthorized

Explanation This message indicates that a request was received to attach QoS policy to an interface without QoS being enabled on the system.

Recommended Action Enable QoS and retry authentication.

Error Message SECURITY-3-DOT1X_QOS_WAITFORCALLBACK: DOT1X: Policy [chars] is still in process of being programmed - Port is unauthorized

Explanation This message indicates that while QoS is trying to install the policy in the hardware, QoS receives another request to configure the policy. The authentication will fail and needs to be retried. [chars] is the policy name.

Recommended Action No action is necessary. Authentication will be retried automatically. This message is provided for information only.

Error Message SECURITY-3-DOT1X_RSPANVLAN: DOT1X: RSPAN vlan [dec] in RADIUS response - Port is unauthorized

Explanation This message indicates that an 802.1X-enabled port has been detected by the RSPAN VLAN.

Recommended Action Contact your technical support representative.

Error Message SECURITY-3-DOT1X_VLANINVALID: DOT1X: Invalid VLAN ID[chars]in RADIUS response

Explanation This message indicates that the system was unable to access VLAN information from the VTP database or that the VLAN is invalid. [chars] is the VLAN.

Recommended Action Contact your technical support representative.

Error Message SECURITY-3-DOT1X_VVID: DOT1X: Port [dec]/[dec] vlan ([dec]) Equal to Auxiliary vlan ([dec]) received in RADIUS response - Port is unauthorized

Explanation This message indicates that an 802.1X-enabled port configured as an MVAP port has received a VLAN from the RADIUS server. The received VLAN is equal to the VLAN configured as an auxiliary VLAN on the port. The first [dec] is the RADIUS response VLAN number, and the second [dec] is the auxiliary VLAN number.

Recommended Action Configure a different VLAN on the RADIUS server, or configure a different VLAN as the auxiliary VLAN on the port.

Error Message SECURITY-3-MAC_AUTH_BACKEND_SERVER: No RADIUS Server configured

Explanation This message indicates that there are no RADIUS servers configured on the switch.

Recommended Action Check the RADIUS configuration using the **sh radius** command and configure RADIUS servers on the switch.

Error Message SECURITY-3-MAC_AUTH_POLICY_INSTALL_FAIL: Policy installation failed for port [dec]/[dec]

Explanation This message indicates that a group received from the RADIUS server has failed to be installed. [dec]/[dec] is the module/port number.

Recommended Action Reinitialize the port.

Error Message SECURITY-3-MAC_AUTH_UNAUTHORIZED_EARL_FAILURE: Port [dec]/[dec] MAC address [chars] EARL addition failure

Explanation This message indicates that the macauth bypass port failed to install a CAM entry for the authenticated MAC address. [dec]/[dec] is the module/port number and [chars] is the MAC address.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SECURITY-3-MACAUTH_GUESTVLAN_INVALID: MACAUTH:Port [dec]/[dec] is Auxiliary vlan enabled, guest vlan ([dec]) cannot be pvlan

Explanation This message indicates that you attempted to set a guest VLAN on an auxiliary VLAN-enabled port when the guest VLAN has been configured as a private VLAN (PVLAN). The port cannot be a forwarding port when it is configured as both an auxiliary VLAN and a PVLAN. [dec]/[dec] is the module/port that is configured as an auxiliary VLAN and the last [dec] is the guest VLAN number.

Recommended Action Change the guest VLAN to a regular VLAN or disable the auxiliary VLAN on the port.

Error Message SECURITY-3-MACAUTH_INITIALIZE_VVID_ON_MAC_MOVE: MAC [chars] moved from port [dec]/[dec] to port [dec]/[dec]. [chars] port

Explanation This message indicates that a MAC address authenticated by a MAC authorization bypass moves to a different port that has been enabled by a MAC authorization bypass. Both ports must be VVID-enabled ports. The first [chars] is the MAC address that has been moved, the first [dec]/[dec] is the module/port number where the MAC address has been authenticated, the second [dec]/[dec] is the module/port number that the system is attempting to authenticate, and the second [chars] indicates that the port is initializing.

Recommended Action If the move was unexpected, determine the reason for the move and make any necessary changes.

Error Message SECURITY-3-MACAUTH_IP_NOT_OBTAINED: Port [dec]/[dec] - Audit requested, IP not obtained within session timeout

Explanation This message indicates that an audit was requested on port [dec]/[dec] but the IP could not be obtained because a session timeout occurred.

Recommended Action Set the session timeout value so that there is enough time for the IP of the host to be obtained.

Error Message SECURITY-3-MACAUTH_NONETHERVLAN: Inactive or non-Ethernet vlan [dec] in RADIUS response

Explanation This message indicates that the RADIUS-supplied VLAN is a non-Ethernet VLAN. [dec] is the VLAN number.

Recommended Action Change the VLAN type to Ethernet.

Error Message SECURITY-3-MACAUTH_PRIVATEVLAN: Private vlan [dec] in RADIUS response - Port is unauthorized

Explanation This message indicates that the RADIUS-supplied VLAN is a PVLAN. [dec] is the VLAN number.

Recommended Action Remove the PVLAN configuration on the VLAN and change the VLAN type to Ethernet.

Error Message SECURITY-3-MACAUTH_RSPANVLAN: RSPAN vlan [dec] in RADIUS response - Port is unauthorized

Explanation This message indicates that the RADIUS-supplied VLAN is an RSPAN. [dec] is the VLAN number.

Recommended Action Remove the RSPAN configuration on the VLAN and change the VLAN type to Ethernet.

Error Message SECURITY-3-MACAUTH_VLANINVALID: Invalid VLAN ID [chars] in RADIUS response

Explanation This message indicates that an invalid VLAN (RSPAN VLAN or non-Ethernet VLAN) is received from the RADIUS server. [chars] is the VLAN number or name received from the RADIUS.

Recommended Action Change your configuration so the VLAN settings are valid.

Error Message SECURITY-3-MACAUTH_VVID: Port [dec]/[dec] vlan [dec] Equal to Auxiliary vlan [dec] received in RADIUS response - Port is unauthorized

Explanation This message indicates that the RADIUS-supplied VLAN is equal to a voice VLAN configured on the port. [dec]/[dec] is the module number/port number, the third [dec] is the VLAN number, and the fourth [dec] is the auxiliary VLAN number.

Recommended Action Make sure that the port VLAN and the auxiliary VLAN are not the same.

SECURITY-4

Error Message SECURITY-4-DOT1X_ACL_NOT_APPLIED: DOT1X: ACL [chars] could not be applied on [dec]/[dec]

Explanation This message indicates that 802.1X failed to map an ACL sent by RADIUS, and authentication fails. [chars] is the ACL name received, the first [dec] is the module number, and the second [dec] is the port number.

Recommended Action You must have support for a PACL. Make sure that you are using a Supervisor Engine 720 or another compatible supervisor engine.

Error Message SECURITY-4-DOT1X_NO_AUTH_FAIL_VLAN: DOT1X: No Auth fail vlan is configured on port [dec]/[dec]

Explanation This message indicates that a port has been moved to the macauth fail VLAN state and there is no macauth fail VLAN state configured on the port. [dec]/[dec] are the module and port numbers.

Recommended Action Configure the macauth fail VLAN state on the affected port.

Error Message SECURITY-4-DOT1X_NO_GUEST_VLAN: DOT1X: No Guest vlan is configured on port [dec]/[dec]

Explanation This message indicates that the port has been moved to the guest VLAN state and there is no guest VLAN state configured on the port. [dec]/[dec] are the module and port numbers.

Recommended Action Configure the guest VLAN on the port.

Error Message SECURITY-4-DOT1X_PORT_NAME_TRUNCATED: DOT1X: Port name received from RADIUS is truncated

Explanation This message indicates that the authenticated port name is longer than the maximum of 20 characters.

Recommended Action Make sure that the authenticated port name is less than 21 characters.

Error Message SECURITY-4-DOT1X_QOS_MAP_EGRESS_VACL: DOT1X: QoS ACL [chars] mapped as Egress VACL for dot1x port [dec]/[dec]

Explanation This message indicates that the quality of service (QoS) ACL that has been mapped is an egress VACL. The egress VACL takes the ACL name and the 802.1X port information (module number and port number). [chars] is the ACL name, the first [dec] is the module number, and the second [dec] is the port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SECURITY-4-DOT1X_QOS_MAP_INGRESS_PACL: DOT1X: QoS ACL [chars] mapped as Ingress PACL for dot1x port [dec]/[dec]

Explanation This message indicates that the QoS ACL that has been mapped is an ingress PACL. The ingress PACL takes the ACL name and the 802.1X port information (module number and port number). [chars] is the ACL name, the first [dec] is the module number, and the second [dec] is the port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SECURITY-4-DOT1X_QOS_MAP_INGRESS_VACL: DOT1X: QoS ACL [chars] mapped as Ingress VACL for dot1x port [dec]/[dec]

Explanation This message indicates that the QoS ACL that has been mapped is an ingress VACL. The ingress VACL takes the ACL name and the 802.1X port information (module number and port number). [chars] is the ACL name, the first [dec] is the module number, and the second [dec] is the port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SECURITY-4-DOT1X_RAD_NVRAM_VLAN_EQUAL: DOT1X: Port ([dec]/[dec]), RADIUS sent vlan [dec] = Port vlan [dec], "So Ignoring RADIUS vlan"

Explanation This message indicates that the admin-configured VLAN on the port and the VLAN assigned by the RADIUS are the same. The first [dec] is the RADIUS-assigned VLAN and the second [dec] is the admin-configured VLAN.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SECURITY-4-FIREWALLVLAN: Vlan [dec] also defined on firewall module [dec]

Explanation This message indicates that a VLAN is currently defined on the Firewall Services Module. The first [dec] is the VLAN number, and the second [dec] is the Firewall Services Module number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SECURITY-4-MACAUTHPORT_NAME_TRUNCATED: MACAUTH: Port name received from RADIUS is truncated

Explanation This message indicates that the port name received from the RADIUS server contains more than 18 characters.

Recommended Action No action is necessary. This message is provided for information only.

SECURITY-5

Error Message SECURITY-5-CLEARADDRESS: [chars] cleared from secure address list for port [dec]/[dec] due to [chars]

Explanation This message indicates that an address has been cleared from the secure address list. [chars] is the address cleared, [dec]/[dec] is the module number/port number, and the second [chars] is the reason the address was cleared, either due to an age-out or a conflict with the online module.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SECURITY-5-DEVICE_DETECTED: ciscoipphone detected on port [dec]/[dec], Auxiliary Vlan enabled

Explanation This message indicates that a system port with the CDP verify feature enabled has detected a Cisco IP phone. When this occurs, the auxiliary VLAN is enabled on the port. [dec]/[dec] is the module number and port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SECURITY-5-DEVICE_LOST: ciscoipphone not detected on port [dec]/[dec], Auxiliary Vlan disabled

Explanation This message indicates that a system port with the CDP verify feature enabled has detected a Cisco IP phone being disconnected or a CDP neighbor is lost. When this occurs, the auxiliary VLAN is disabled on the port. [dec]/[dec] is the module number and port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SECURITY-5-DOT1X_ASSIGNVLAN: VLAN [dec] assigned to Dot1x Port [dec]/[dec]

Explanation This message indicates that the VLAN was successfully assigned. [dec] is the VLAN number, and [dec]/[dec] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SECURITY-5-DOT1X_AUTHENTICATION_FAILURE: Authentication failed for port [dec]/[dec]: port unauthorized

Explanation This message indicates that the designated port is set to unauthorized while the 802.1X authentication process is in progress. [dec]/[dec] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SECURITY-5-DOT1X_AUTHENTICATION_SUCCESS: Authentication successful for port [dec]/[dec]

Explanation This message indicates that designated port is set to authorized while the 802.1X authentication process is in progress. [dec]/[dec] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SECURITY-5-DOT1X_BACKEND_TIMEOUT: [chars] occurred for port [dec]/[dec]

Explanation This message indicates that no response was received from a RADIUS server or from a supplicant during the dot1x authentication process. [chars] is either the RADIUS server timeout or the supplicant timeout and [dec]/[dec] is the module/port number.

Recommended Action If the message indicates a RADIUS server timeout, check that the RADIUS server is active. If the message indicates a supplicant timeout, check that the supplicant is connected and online.

Error Message SECURITY-5-DOT1X_CRITICAL_AUTH_REAUTH_DISABLED: No Active radius server found. Re-authentication temporarily disabled for port [dec]/[dec]

Explanation This message indicates that reauthentication is attempted on a port that is already authenticated and the RADIUS servers were not reachable. The server timeout expires, and because authentication is not complete and the port is marked as critical, the port is maintained in the

authenticated state with retained policies. If automatic reauthentication is enabled, it will be temporarily disabled until the RADIUS server boots up. [dec]/[dec] are the module and port numbers.

Recommended Action Use the **show port dot1x critical** command to determine how the port went into a critical state.

Error Message SECURITY-5-DOT1X_CRITICAL_AUTH_STATE: No Active radius server found. Port [dec]/[dec] moved to critical-auth

Explanation This message indicates that a port moved to the critical authentication state. A port is moved to the critical authentication state when the port is marked as critical, the radius server is offline, and the port is not in authorized state (not a reauthentication). The authentication gets timed out and the port moves to the critical authentication state. [dec]/[dec] are the module and port numbers.

Recommended Action If a port is moved to critical authentication state, manually initialize the port when the radius server boots up to get it authenticated. Otherwise, the port will stay in the critical authentication state and will allow all traffic to go through.

Error Message SECURITY-5-DOT1X_PORT_AUTHORIZED: Port [dec]/[dec] authorized

Explanation This message indicates that a 802.1X port is authorized. [dec]/[dec] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SECURITY-5-DOT1X_PORT_EAPOL_CAPABLE: DOT1X: MAC [chars] on port [dec]/[dec] on Device [chars] is EAPOL capable

Explanation This message indicates that an EAPOL packet is received on a dot1x-enabled port for the first time after initialization. [chars] is the MAC address of the host that sends the EAPOL packet and [dec]/[dec] are the module and port numbers.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SECURITY-5-DOT1X_PORT_UNAUTHORIZED: Port [dec]/[dec] unauthorized

Explanation This message indicates that a 802.1X port is unauthorized. [dec]/[dec] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SECURITY-5-DOT1X_STATE_MACHINE_INITIALIZATION: Dot1x State Machine Reset for port [dec]/[dec]

Explanation This message indicates that a 802.1X authenticator state system is initialized. [dec]/[dec] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SECURITY-5-DOT1X_IDLE_HOST_TIMEOUT: The session for host on port [dec]/[dec] terminated due to idle timeout. CAM entry removed.

Explanation This message indicates that a dot1x-authenticated machine stopped responding to ARP probes and the host session got terminated due to idle timeout.

Recommended Action No action is necessary. To enable or disable this notification feature, use the `set port dot1x m/p ip-device-tracking enable/disable` command.

Error Message SECURITY-5-MACAUTH_IDLE_HOST_TIMEOUT: The session for host on port [dec]/[dec] terminated due to idle timeout. CAM entry removed.

Explanation This message indicates that a MAC-authenticated machine stopped responding to ARP probes and the host session got terminated due to idle timeout.

Recommended Action No action is necessary. To enable or disable this notification feature, use the `set port mac-auth-bypass m/p ip-device-tracking enable/disable` command.

Error Message SECURITY-5-MACAUTH_ASSIGNVLAN: VLAN [dec] assigned to MacAuth Port [dec]/[dec]

Explanation This message indicates that a VLAN is assigned to an authenticated port. The first [dec] is the VLAN number, and [dec]/[dec] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SECURITY-5-PORTREENABLED: Port [dec]/[dec] is re-enabled after shutdown timeout

Explanation This message indicates that the port has been reenabled after a shutdown. [dec]/[dec] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SECURITY-5-RESTRICTADDRESS: [address] restricted on port [mod]/[port] due to [reason]

Explanation This message indicates that a new MAC address [address] has been seen on an already authenticated [mod/port]. This MAC address has restricted access due to reason [reason]. The reason can be a security violation or that the CAM table full. Usually, this message occurs when the violation mode of the port is restricted and a new MAC address is seen on the port.

Recommended Action No action is necessary. This message is provided for information only. To shut down the port, change the violation mode.

Error Message SECURITY-5-SETTRUNKOFF: Trunk mode set to off for port [dec]/[dec]

Explanation This message indicates that a Dot1x-authenticated port has moved to a PVLAN because a RADIUS VLAN has been assigned as a PVLAN when the port authenticates. The [dec]/[dec] is the module/port number.

Recommended Action No action is necessary. This message is provided for information only.

SECURITY-6

Error Message SECURITY-6-MAC_AUTH_ASSIGN_VLAN: Port [dec]/[dec] is assigned to vlan [dec]

Explanation This message indicates that a MAC authentication bypass port is assigned to a VLAN. [dec]/[dec] is the module/port number and [dec] is the VLAN.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SECURITY-6-MAC_AUTH_FAILURE: Authentication failed for MAC address [chars] on port [dec]/[dec]

Explanation This message indicates that a MAC authentication bypass failed authentication on the port. [chars] is the MAC address of the end host, and [dec]/[dec] is the module/port number.

Recommended Action Check the MAC authentication bypass configuration or MAC credentials on the RADIUS server.

Error Message SECURITY-6-MAC_AUTH_GUEST_VLAN: Port [dec]/[dec] moved to Guest Vlan [dec]

Explanation This message indicates that a MAC authentication-enabled port is moved to the guest VLAN state. The end host on the port is not dot1x-capable; the MAC authentication has failed on the port and the guest VLAN is configured on the port. [dec]/[dec] is the module/port number, and the third [dec] is the guest VLAN number.

Recommended Action Check the MAC authentication bypass configuration or MAC credentials on the RADIUS server.

Error Message SECURITY-6-MAC_AUTH_INITIALIZE: Port [dec]/[dec] is initialized

Explanation This message indicates that the MAC authentication bypass port is initialized. [dec]/[dec] is the module/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SECURITY-6-MAC_AUTH_PORT_AUTHORIZED: Mac Address [chars] authorized on port [dec]/[dec]

Explanation This message indicates that the MAC address on the MAC authentication bypass-enabled port is authenticated. [chars] is the MAC address that was authenticated, and [dec]/[dec] is the module/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SECURITY-6-MAC_AUTH_VLAN_CHANGE: Port [dec]/[dec] vlan change from [dec] to [dec]

Explanation This message indicates that the MAC authentication bypass VLAN changes from one VLAN to another VLAN. [dec]/[dec] is the module/port number, the third [dec] is the first VLAN, and the fourth [dec] is the second VLAN.

Recommended Action No action is necessary. This message is provided for information only.

SECURITY-7

Error Message SECURITY-7-DOT1X_AUTHENTICATOR_STATE: DOT1X: Port [dec]/[dec] is in [chars] state

Explanation This message indicates the 802.1X authenticator state on the port. [dec]/[dec] is the module number and port number, and [chars] is the authenticator state. The authenticator state can be disconnected, connecting, held, authenticating, authenticated, aborting, force_auth, or force_unauth.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SECURITY-7-DOT1X_BACKEND_STATE: DOT1X: backend state for port [dec]/[dec] is [chars]

Explanation This message indicates the 802.1X backend state of the port. [dec]/[dec] is the module number and port number, and [chars] is the authenticator state. The authenticator state can be request, response, success, fail, timeout, finished, or abort.

Recommended Action No action is necessary. This message is provided for information only.

SNMP Messages

This section contains the Simple Network Management Protocol (SNMP) messages.

SNMP-2

Error Message SNMP-2-TCPSTOPENFAIL: Can't open TCP socket for [dec]

Explanation This message indicates that the TCP socket for the port cannot be opened. [dec] is the TCP port number.

Recommended Action Reboot the system.

SNMP-3

Error Message SNMP-3-INITFAIL: Initialization failed [dec]

Explanation This message indicates that the initialization process has failed on a module. [dec] is the module number.

Recommended Action Try reseating the module in the chassis.

Error Message SNMP-3-UDPSKTOPENFAIL: Can't open UDP socket for [dec]

Explanation This message indicates that the UDP socket for the port cannot be opened. [dec] is the UDP port number.

Recommended Action Reboot the system.

SNMP-5

Error Message SNMP-5-CONFIGDIGESTERROR: vtpConfigDigestError notification sent for a configuration digest error occurred.

Explanation This message indicates that the vtpConfigDigestError notification has been sent.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-FLASHINSERTEDNOTIF: ciscoFlashDeviceInsertedNotif notification sent for flash device [chars] inserted

Explanation This message indicates that the ciscoFlashDeviceInsertedNotif notification has been sent. [chars] is the flash device name.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-FLASHREMOVEDNOTIF: ciscoFlashDeviceRemovedNotif notification sent for flash device [chars] removed

Explanation This message indicates that the ciscoFlashDeviceRemovedNotif notification has been sent. [chars] is the flash device name.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-FLEXLINKSTATUSNOTIF: cflIfStatusChangeNotif notification sent for the flex link interface [dec] operation status changed to [dec]

Explanation This message indicates that the cflIfStatusChangeNotif notification has been sent. The first [dec] is the interface, and the second [dec] is the status of an interface, which is participating in a Flex Links operation. The status might be forwarding(1), blocking(2), down(3), waitingToSync(4), waitingForPeerStrate(5), or unknown(6).

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-FLOWCTRLBUSTHREXCDNOTIF: cpaeNoAuthFailVlanNotif notification sent for port [dec]/[dec]

Explanation This message indicates that the cc6kxbarFlowCtrlBusThrExcdNotif notification has been sent for the module that has exceeded the default value. [dec]/[dec] is the module number and port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-IPPERMITDENIEDNOTIF: ipPermitDeniedTrap notification sent for [chars] access denied

Explanation This message indicates that the ipPermitDeniedTrap notification has been sent. [chars] is the IP address of an IP permit that has been denied access.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-MACCHANGEDNOTIF: cmnMacChangedNotification notification sent for the message changed [chars]

Explanation This message indicates that the cmnMacChangedNotification notification has been sent. [chars] is the information for the MAC change notification event.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-MACMOVENOTIF: cmnMacMoveNotification notification sent for [chars] moved from [dec] to [dec]

Explanation This message indicates that the cmnMacMoveNotification notification has been sent. [chars] is the MAC information sent. The first [dec] is the value of dot1dBasePort for the bridge port from which the cmnMACMoveAddress is moved to cmnMACMoveToPortId on the

cmnMACMoveVlanNumber. The second [dec] is the value of dot1dBasePort for the bridge port to which the cmnMACMoveAddress is moved from cmnMACMoveFromPortId on the cmnMACMoveVlanNumber.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-MACTHRESHOLDEXCEEDNOTIF: cmnMacThresholdExceedNotif notification sent for the utilization [dec] exceeds or equal to the threshold limit [dec]

Explanation This message indicates that the cmnMacThresholdExceedNotif notification has been sent. The first [dec] is the utilization of the forwarding table for a given entPhysicalIndex calculated at the end of the cmnMACThresholdInterval, and the second [dec] is the threshold limit of the forwarding table utilization.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-NOAUTHFAILVLANNOTIF: cc6kxbarFlowCtrlBusThrExcdNotif notification sent for module [dec]

Explanation This message indicates that the cpaeNoAuthFailVlanNotif notification has been sent. [dec]/[dec] is the module number and port number for the PAE port with a value of “auto” for the corresponding instance of dot1xAuthAuthControlledPortControl and a value of 0 for the corresponding instance of cpaePortAuthFailVlan.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-NOGUESTVLANNOTIF: cpaeNoGuestVlanNotif notification sent for port [dec]/[dec]

Explanation This message indicates that the cpaeNoGuestVlanNotif notification has been sent. [dec]/[dec] is the module number and port number for the PAE port with a value of “auto” for the corresponding instance of dot1xAuthAuthControlledPortControl and a value of 0 for the corresponding instance of cpaeGuestVlanNumber.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-POWEROUTPUTCHANGENOTIF: PS [dec] output current changed to [dec]

Explanation This message indicates that the cefcEnablePSOutputChangeNotif notification has been sent. The first [dec] is the power supply index, and the second [dec] is the output capacity of the power supply.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-SMTPSERVERFAILNOTIF: ccmSntpServerFailNotif notification sent for sending an email failed to SMTP server port [dec]

Explanation This message indicates that the ccmSntpServerFailNotif notification has been sent. [dec] is the ccmSntpServersPort number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-SYSCONFIGCHANGENOTIF: sysConfigChangeTrap notification sent for [chars]

Explanation This message indicates that the sysConfigChangeTrap notification has been sent. [chars] is the NVRAM block that has been changed.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-SYSINFOLOGFAILNOTIF: csilLoggingFailNotif notification sent for the status of the logging process is changed to [dec]

Explanation This message indicates that the csilLoggingFailNotif notification has been sent. [dec] is the status of the last system information logging process into the server. The status indicator will be none(1), noLogFile(2), noCommand(3), linkBlock(4), authError(5), addrError(6), copying(7), writeError(8), success(9), or ftpError(10).

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-TRUNKSTATUSCHANGEDNOTIF: vlanTrunkPortDynamicStatusChange notification sent for the dynamic status of the trunk port [dec]/[dec] is changed to [dec]

Explanation This message indicates that the vlanTrunkPortDynamicStatusChange notification has been sent. [dec]/[dec] is the module number and port number, and the third [dec] is the specified interface that may or may not be acting as a trunk. The value is 1 if the interface is acting as a trunk and the value is 2 if it is not.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-VLANCREATEDNOTIF: vtpVlanCreated notification sent for vlan [CHARS] is created

Explanation This message indicates that the vtpVlanCreated notification has been sent. [chars] is the name of the VLAN.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-VLANDELETEDNOTIF: vtpVlanDeleted notification sent for vlan [chars] is deleted

Explanation This message indicates that the vtpVlanDeleted notification has been sent. [chars] is the name of the VLAN.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-VMPSCHANGENOTIF: vmVmppsChange notification sent for the new VMPS is [chars]

Explanation This message indicates that the vmVmppsChange notification has been sent. [chars] is the IP address of the VMPS.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-VTPLOCALMODENOTIF: vtpLocalModeChanged notification sent for the local VTP mode is changed to [dec]

Explanation This message indicates that the vtpLocalModeChanged notification has been sent. [dec] is the VTP mode.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-VTPSERVERDISABLEDNOTIF: vtpServerDisabled notification sent for the VTP VLAN storage exceeding [dec]

Explanation This message indicates that the local system no longer functions as a VTP server because the number of defined VLANs is greater than the maximum number of VLANs that the local system can recover after a reboot.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-VTPREVERRORENOTIF: vtpConfigRevNumberError notification sent for Configuration Revision Number error occurred

Explanation This message indicates that the vtpConfigRevNumberError notification has been sent.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-VTPVERCHANGEDNOTIF: vtpVersionInUseChanged notification sent. The management domain version in use is changed to [dec]

Explanation This message indicates that the vtpVersionInUseChanged notification has been sent. [dec] is the current version of the VTP that is in use by the designated management domains. The domain values are version1 (1), version2 (2), none (3), version3 (4).

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-VTPVERONENOTIF: vtpVersionOneDeviceDetected notification sent for a VTP version one device detected.

Explanation This message indicates that the vtpVersionOneDeviceDetected notification has been sent.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-CHASSISALARM: Chassis Alarm Trap: tmpAlarm([chars]), minorAlarm([chars]), and/or majorAlarm([chars])

Explanation This message indicates the on and off condition of the Chassis Alarm Trap: tmpAlarm([chars]), minorAlarm([chars]) and majorAlarm([chars]). [chars] is on or off.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-CLCIFHIGHTRAP: number of entries [dec] exceeded or fallen below the high threshold of [dec] on interface [dec]

Explanation This message indicates that the number of MAC address entries that have been learned by the interface have exceeded or fallen below a user-defined high-threshold limit for the monitor limit feature. The first [dec] is the number of MAC addresses in the CAM for this interface, the second [dec] is the user-configured high-threshold value, and the third [dec] is the interface.

Recommended Action If you are going to shut down, reenabling the port with the **set port enable** *port* command. Alternatively, set a timer to automatically reenabling a port after a specified period of time by using the **set errdisable-timeout enable cam-monitor** command or the **set errdisable-timeout interval** *interval* command. The interval value default is 300 seconds. When you are not going to shut down, no action is necessary.

Error Message SNMP-5-CLCIFLOWTRAP: number of entries [dec] exceeded or fallen below the low threshold of [dec] on interface [dec]

Explanation This message indicates that the number of MAC address entries that have been learned by the interface have exceeded or fallen below a user-defined low-threshold limit for the monitor limit feature. The first [dec] is the number of MAC addresses in the CAM for this interface, the second [dec] is the user-configured low-threshold value, and the third [dec] is the interface.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-CLCIFVLANHIGHTRAP: number of entries [dec] exceeded or fallen below the high threshold of [dec] on interface [dec] vlan [dec]

Explanation This message indicates that the number of MAC address entries that have been learned by the interface and VLAN pair have exceeded or fallen below a user-defined high-threshold limit for the monitor limit feature. The first [dec] is the number of MAC addresses in the CAM for this interface and VLAN pair, the second [dec] is the user-configured high-threshold value, the third [dec] is the interface, and the fourth [dec] is the VLAN number.

Recommended Action If you are going to shut down, reenabling the port with the **set port enable** *port* command. Alternatively, set a timer to automatically reenabling a port after a specified period of time by using the **set errdisable-timeout enable cam-monitor** command or the **set errdisable-timeout interval** *interval* command. The interval value default is 300 seconds. When you are not going to shut down, no action is necessary.

Error Message SNMP-5-CLCIFVLANLOWTRAP: number of entries [dec] exceeded or fallen below the low threshold of [dec] on interface [dec] vlan [dec]

Explanation This message indicates that the number of MAC address entries that have been learned by the interface/VLAN pair have exceeded or fallen below a user-defined low-threshold limit for the monitor limit feature. The first [dec] is the number of MAC addresses in the CAM for this interface/VLAN pair, the second [dec] is the user-configured high-threshold value, the third [dec] is the interface, and the fourth [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-CLCVLANHIGHTRAP: number of entries [dec] exceeded or fallen below the high threshold of [dec] on vlan [dec]

Explanation This message indicates that the the number of MAC address entries that have been learned by the VLAN have exceeded or fallen below a user-defined high-threshold limit for the monitor limit feature. The first [dec] is the number of MAC addresses in the CAM for this VLAN, the second [dec] is the user-configured high-threshold value, and the third [dec] is the VLAN number.

Recommended Action When the action to be taken is “shutdown,” reenabling the port with the **set port enable** *port* command. Alternatively, set a timer to automatically reenabling a port after a specified period of time by using the **set errdisable-timeout enable cam-monitor** command or the **set errdisable-timeout interval** *interval* command. The interval value default is 300 seconds. When the action to be taken is not “shutdown,” no action is necessary.

Error Message SNMP-5-CLCVLANLOWTRAP: number of entries [dec] exceeded or fallen below the low threshold of [dec] on vlan [dec]

Explanation This message indicates that the number of MAC address entries that have been learned by the interface have exceeded or fallen below a user-defined low-threshold limit for the monitor limit feature. The first [dec] is the number of MAC addresses in the CAM for this VLAN, the second [dec] is the user-configured low-threshold value, and the third [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-CLCVLANLOWTRAP: port [dec]/[dec] [chars] exceeded high threshold

Explanation This message indicates that the increase in an error counter type on an interface exceeds the error counter's clemThresholdHigh for clemSamplingTimes times between two consecutive samplings. The corresponding clemAction value will take effect on the interface. The first [dec] is the module number, the second [dec] is the port number, and [chars] is the counter type.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-CLEMLOWTHRESHEXCDTRAP: port [dec]/[dec] [chars] exceeded low threshold

Explanation This message indicates that the increase in an error counter type on an interface exceeds the error counter's clemThresholdLow for clemSamplingTimes times between two consecutive samplings. The first [dec] is the module number, the second [dec] is the port number, and [chars] is the counter type.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-CLOCKCHANGETRAP: clock changed to [chars]

Explanation This message indicates that the system clock has been changed manually. [chars] is the new day, date, and time.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-CLTCDROPEXCEEDTRAP: Tunneling port [dec]/[dec] exceeded [chars] drop threshold

Explanation This message indicates that the cltcTunnelDropThreshold on the interface for a given protocol has been exceeded. The interface will begin dropping PDUs for the given protocol. The first [dec] is the module number, the second [dec] is the port number, and [chars] is the tunneling protocol.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-CLTCSHUTEXCEEDTRAP: Tunneling port [dec]/[dec] exceeded [chars] shutdown threshold

Explanation This message indicates that the cltcTunnelShutdownThreshold on the interface for a given protocol has been exceeded. The interface will be shut down for the given protocol. The first [dec] is the module number, the second [dec] is the port number, and [chars] is the tunneling protocol.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-COLDSTART: Cold Start Trap

Explanation This message indicates that the sending protocol entity is reinitializing itself so the configuration of the agent or the protocol entity implementation might be altered.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-COPTICALMONPARAMSTATUS: cOpticalMonParameterStatus notification sent for [chars]

Explanation This message indicates that cOpticalMonParameterStatus notification defined in the CISCO-OPTICAL-MONITOR-MIB was sent by the switch. [chars] is a string in which mNo/pNo are the module and port numbers of a transceiver for which cOpticalMonParameterStatus notification was generated. The strings that [chars] represents could be a power sensor on transceiver mNo/pNo, ambient temperature sensor on transceiver mNo/pNo, bias current sensor on transceiver mNo/pNo, or transceiver voltage sensor on transceiver mNo,/pNo.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-ENTITYMODTRAP: Module [dec] status changed to [chars]

Explanation This message indicates that the system has detected a change in the cefcModuleOperStatus value. [chars] is the new status.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-ENTITYPOWERTRAP: Status changed to [chars]

Explanation This message indicates that the system has detected that the power status of a field replaceable device has changed. [chars] is the new power status.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-ENTITYTRAP: Entity Mib last change time [dec] ticks

Explanation This message indicates that the entLastChangeTime MIB object value was changed. [dec] is the value of sysUpTime at the time this event occurs.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-ENVMONFANTRAP: Environmental Monitor Fan Trap: [chars]

Explanation This message indicates that the system has detected a problem with the fan tray. [chars] is the notification message.

Recommended Action Replace the fan tray.

Error Message SNMP-5-ENVMONPOWERTRAP: Environmental Monitor Redundant Power Supply Trap: [chars]

Explanation This message indicates that the system has detected a problem with the redundant power supply. [chars] is the notification message.

Recommended Action Replace the indicated power supply.

Error Message SNMP-5-ENVMONSHUTDOWNTRAP: Environmental Monitor Shutdown Trap: The system shutdown due to [chars], the sensor index is [dec]

Explanation This message indicates that the system was shut down due an environmental condition detected by the environmental monitor. [chars] is the reason for the shutdown, and [dec] is the sensor index value.

Recommended Action Contact your technical support representative.

Error Message SNMP-5-ENVMONTEMPTRAP: Environmental Monitor Temperature Trap

Explanation This message indicates that the system has detected a problem with the system chassis temperature. [chars] is the notification message.

Recommended Action Check the ambient temperature of the chassis. Check for airflow blockage in the chassis.

Error Message SNMP-5-FLOWCTRLBUSTHREXCDNOTIF: cc6kxbarFlowCtrlBusThrExcdNotif notification sent for module[dec]

Explanation This message indicates that the cc6kxbarFlowCtrlBusThrExcdNotif notification has been sent for the module that exceeded the default value. [dec] is the module number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-FRUINSERTEDTRAP: [chars] inserted

Explanation This message indicates that a module, power supply, or fan tray has been inserted into the chassis. [chars] defines the field replaceable unit (FRU).

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-FRUREMOVEDTRAP: [chars] removed

Explanation This message indicates that a module, power supply, or fan tray has been removed from the chassis. [chars] defines the field replaceable unit (FRU).

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-IEEE8021CFMFAULTALARM: CFM Fault Alarm trap sent with MEP [dec]

Explanation This message indicates the SNMP fault alarm notification whenever one of the following Continuity Check error conditions occur for the local MEP:

- Continuity Check lifetime expiry for the remote MEP (no cc is received from the remote MEP within Continuity Check lifetime)
- Configuration error (duplicate mpid error and Continuity Check interval mismatch)
- Cross-connect error (different domain level and different Maintenance Association name)
- Remote MEP MAC status change event (change in operational port status of remote MEP or change in port status of spanning tree)

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-LERALARMTAP: FDDI Ler Alarm [[chars]] Trap for [[dec]/[dec]]

Explanation This message indicates that the fddimibPORTLerFlag object in the FDDI-SMT73-MIB (RFC 1512) has turned on or turned off one of its ports. [[chars]] is on or off and [[dec]/[dec]] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-LINKTRAP: Link [chars] Trap -- ifName=[chars]

Explanation This message indicates the type of link trap by the specified name. The first [chars] is up or down, and the second [chars] is sc0/s10/mNo-pNo.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-MODAUTOSHUTTRAP:Auto shutdown trap for module [dec]

Explanation This message indicates a switching module has been shut down by the Auto Shutdown feature. [dec] is the module number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-MODULETRAP: Module [dec] ([chars]) Trap

Explanation This message indicates the type of module trap. [dec] is the module number, and ([chars]) is up or down.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-NEWROOTTRAP: New Root Trap for VLAN [[dec]]

Explanation This message indicates that there is a new root of the spanning tree. [[dec]] is a VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-RFPROGRESSIONTRAP: Active supervisor module in [chars] state, Standby supervisor module in [chars] state

Explanation This message indicates the current standby state of the active supervisor engine and the redundant supervisor engine. The first [chars] is the current state of the active supervisor engine, and the second [chars] is the current standby state of the redundant supervisor engine.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-RFWACTTRAP: Supervisor module switch over caused by [chars]

Explanation This message indicates that a supervisor engine switchover was detected by the redundant framework monitor. [chars] is the reason for the switchover.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-RPTHEALTHTRAP: Repeater health trap:rptrOperStatus([dec],[dec])=[chars]

Explanation This message indicates the repeater health trap:rptrOperStatus status. [dec],[dec] is the module number, port number, and [chars] is one of the following: other, ok, rptrFailure, groupFailure, portFailure, or generalFailure.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-RPTRESETTRAP: Repeater reset trap:rptrOperStatus([dec],[dec])=[chars]

Explanation This message indicates the repeater reset trap:rptrOperStatus status. [dec],[dec] is the module number, port number, and [chars] is one of the following: other, ok, rptrFailure, groupFailure, portFailure, or generalFailure.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-SNMPAUTHFAIL: Authentication failed for message from [chars]

Explanation This message indicates that the switch has received an SNMP message that was not properly authenticated. [chars] is the source of the message.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-STPXTRAP: STP Extension Inconsistency vlan [dec] port [[dec/dec]] ([chars])

Explanation This message indicates that the Spanning Tree Protocol (STP) has detected an inconsistency in the VLAN. [dec] is the VLAN number, [[dec/dec]] is the module number/port number, and ([chars]) is the inconsistency detected.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-STPXTAPROOT: STP Extension Root Inconsistency vlan [dec] port [dec]/[dec] ([chars])

Explanation This message indicates that a port on a spanning tree instance has joined or left the root or loop inconsistency state. [dec] is the VLAN number, [dec]/[dec] is the module number/port number, and [chars] is the error message.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-TOPOTRAP: Topology Change Trap for VLAN [[dec]]

Explanation This message indicates that a configured port changed from the learning state to the forwarding state, or from the forwarding state to the blocking state. [[dec]] is a VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-WARMSTART: Warm Start Trap

Explanation This message indicates that the redundant supervisor engine has taken control.

Recommended Action No action is necessary. This message is provided for information only.

SNMP-6

Error Message SNMP-6-SUBAGENTCONN: Subagent [dec] [chars]

Explanation This message indicates the connection status of the subagent. [dec] is the subagent number, and [chars] is one of the following: other, OK, rptr Failure, group Failure, port Failure, or general Failure.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-6-SUBAGENTDIS: Disconnect Subagent [dec], [chars]

Explanation This message indicates that the subagent has been disconnected. [dec] is the subagent index, and [chars] is the reason for the disconnection.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-6-SUBAGENTTIMEOUT: Subagent [dec] Timeout, drop connection

Explanation This message indicates that the subagent has been disconnected when the master agent times out during communications with the subagent. [dec] is the subagent index.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-6-TCPSKTCLOSE: TCP socket [[dec]] closed

Explanation This message indicates that the specified TCP socket closed. [[dec]] is the TCP port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-6-TCPSKTOPEN: TCP socket [[dec]] opened

Explanation This message indicates that the specified TCP socket opened. [[dec]] is the TCP port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-6-UDPSKTCLOSE: UDP socket [[dec]] closed

Explanation This message indicates that the specified UDP socket closed. [[dec]] is the UDP port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-6-UDPSKTOPEN: UDP socket [[dec]] opened

Explanation This message indicates that the specified UDP socket opened. [[dec]] is the UDP port number.

Recommended Action No action is necessary. This message is provided for information only.

SNMP RMON Messages

This section contains the Simple Network Management Protocol (SNMP) messages for Remote Monitoring (RMON).

SNMP-5

Error Message SNMP-5-POWEROUTPUTCHANGENOTIF: PS [dec] output current changed to [dec]

Explanation This message indicates that the cefcEnablePSOutputChangeNotif notification has been sent. The first [dec] is the power supply index, and the second [dec] is the output capacity of the power supply.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SNMP-5-RMONDISFAIL: Rmon Disable is progress, In another session

Explanation This message indicates that in one Telnet session, an RMON disable is in progress, and in another Telnet session, a user is trying to disable RMON.

Recommended Action Try to disable RMON at a later time. If the message reappears after numerous tries, contact your technical support representative.

Error Message SNMP-5-RMONENFAIL: Rmon Enable is progress, In another session

Explanation This message indicates that in one Telnet session, an RMON enable is in progress, and in another Telnet session, a user is trying to enable RMON.

Recommended Action Try to enable RMON at a later time. If the message reappears after numerous tries, contact your technical support representative.

Error Message SNMP-5-RMONNOALARM: Alarm Index [dec] is Not Saved

Explanation This message indicates that the alarm entry with a specified index is not saved in nonvolatile random-access memory (NVRAM). [dec] is the index of the alarm entry.

Recommended Action Set the alarm variable of the entry to an object whose Management Information Base (MIB) object identifier (OID) length is less than or equal to 18. If the message reappears, contact your technical support representative.

Error Message SNMP-5-RMONNOMEM: No memory for ControlEntry

Explanation This message indicates that memory is full; no new RMON tables can be installed.

Recommended Action Release some memory by deleting some of the existing RMON entries. If the message reappears, contact your technical support representative.

Error Message SNMP-5-RMONNOSCP: Out of RMON ScpUsage

Explanation This message indicates that the ScpUsage table for RMON is full.

Recommended Action Contact your technical support representative.

Error Message SNMP-5-TABLEFULL: [chars] Table is Full

Explanation This message indicates that the specified table is full. [chars] is the history, alarm, or event table.

Recommended Action Release some memory by deleting some of the existing RMON entries. If the message reappears, contact your technical support representative.

Error Message SNMP-5-UPDATENVRAM: UpdateNvram() failed: blockno is [dec]

Explanation This message indicates that updating the NVRAM configuration for the specified block failed. [dec] is the NVRAM block.

Recommended Action You might be out of memory. Enter the **show version** command to ensure that you are running the correct version. Free some memory if necessary. If the message reappears, contact your technical support representative.

SPANTREE Messages

This section contains the Spanning Tree Protocol messages.

SPANTREE-2

Error Message SPANTREE-2-BPDU_SKEWING: BPDU skewed with a delay of [dec] seconds (max_age/2)

Explanation This message indicates that a BPDU for one or more VLANs or instances when MISTP is running has been skewed for a time longer than max_age/2. [dec] is the number of seconds.

Recommended Action No action is necessary. To determine which VLAN has been skewed, use the **show spantree sum novlan** command.

Error Message SPANTREE-2-CHNMISCFG: STP loop - channel [dec]/[chars] is disabled in vlan [dec]

Explanation This message indicates that there is a possible misconfiguration in the EtherChannel type setting (auto/desirable/on). A misconfigured channel formed, causing spanning tree loops. [dec] is the module number, [chars] is the port number, and vlan [dec] is the VLAN number.

Recommended Action Contact your technical support representative.

Error Message SPANTREE-2-CHNMISCFG2: BPDU source mac addresses: [chars], [chars]

Explanation This message indicates the source MAC addresses of the STP BPDUs that caused the error disabling of the channel. [chars], [chars] are the source MAC addresses of the BPDUs. This message is displayed after the SPANTREE-2-CHNMISCFG message.

Recommended Action Contact your technical support representative.

Error Message SPANTREE-2-L2LOOP: Loop detected on Spanning Tree disabled VLAN [dec]. Port [dec]/[dec] disabled

Explanation This message indicates that a loop error has been detected on a disabled VLAN and that the port is being shut down. VLAN [dec] is the VLAN number, and [dec]/[dec] is the module number/port number of the faulty port.

Recommended Action Contact your technical support representative.

Error Message SPANTREE-2-LOOPGUARDBLOCK: No BPDUs were received on port [chars] in [chars] [dec]. Moved to loop-inconsistent state

Explanation This message indicates that due to a unidirectional link failure, or failure of a bridge, BPDUs are not being received on the port. Loopguard has blocked the port to prevent loops. The first [chars] is the module/port instance, the second [chars] is the VLAN instance, and [dec] is the VLAN number/instance number.

Recommended Action Check the bridge connected to this port and test the link for any unidirectional failures. Sometimes excessive delay between BPDUs can trigger this event. If this is the case, no action is required because the port state is restored with the arrival of the next BPDU.

Error Message SPANTREE-2-LOOPGUARDUNBLOCK: Port [chars] restored in [chars] [dec]

Explanation This message indicates that the previously blocked port has been restored. The first [chars] is the module/port instance, the second [chars] is the VLAN instance, and [dec] is the VLAN number/instance number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SPANTREE-2-MAPCONFLICTEND: conflict resolved for vlan [dec]. Prepare to enter instance [dec]

Explanation This message indicates that a previously existing conflict has been resolved. After a forwarding delay, the VLAN will enter the instance. The first [dec] is the VLAN number, and the second [dec] is the last instance claiming the VLAN.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SPANTREE-2-MAPCONFLICTSTART: vlan [dec] conflicting. Leaving instance [dec].

Explanation This message indicates that two or more bridge protocol data units (BPDUs) associated with different Multi-Instance Spanning Tree Protocol (MISTP) instances claim the same VLAN as part of their instance. The VLAN is blocked until the conflict is resolved. The first [dec] is the VLAN number, and the second [dec] is the first MISTP instance claiming the VLAN.

Recommended Action Reconfigure MISTP on the network to make sure that only one instance maps to the VLAN. Use the **show spantree conflict** command to find out which switches are claiming the VLAN.

Error Message SPANTREE-2-MST_CHOP_MREC: Rcvd malformed MST bpdu on [dec]/[dec] (payload len [dec])

Explanation This message indicates that the received MST BPDU is not of the correct size and the BPDU might be truncated. If this is the case, either the IST portion or mrecord is truncated. The first [dec] indicates the module number, the second [dec] indicates the port number, and the third [dec] is the received actual length of the BPDU including the Ethernet header.

Recommended Action Check the size of the MST BPDU and determine if it has become truncated. Make corrections as necessary.

Error Message SPANTREE-2-MSTREG_CHANGE: Port [dec][dec] moved from [chars]

Explanation This message indicates that the port specified has become either a boundary or internal port. The port either received an MST BPDU with a different region configuration (for example, “internal to boundary”) or an MST BPDU with the same region config (for example, “boundary to internal”). The first [dec] indicates the module number, the second [dec] indicates the port number, and [chars] is the region.

Recommended Action No action is necessary if you are aware of the change. Otherwise, check the region config.

Error Message SPANTREE-2-PORTADD_FAILNOMEM: [dec]/[dec] in [dec] malloc fail ([chars]) not add STP

Explanation This message indicates that adding a port to a specified VLAN has failed because the system does not have enough memory. [dec]/[dec] is the module number/port number, [dec] is the VLAN number, and ([chars]) is the error message.

Recommended Action Contact your technical support representative.

Error Message SPANTREE-2-PORTUNBLK: Unblock previously inc port [dec]/[chars] on vlan [dec]

Explanation This message indicates that the previously blocked port caused by port type or VLAN inconsistency is now unblocked. [dec] is the module number, [chars] is the port number, and the second [dec] is the VLAN number. This message also indicates that the previous inconsistency has been cleared and no more inconsistencies have been detected on the port.

Recommended Action The port should have a normal spanning tree state.

Error Message SPANTREE-2-PVSTSIM_FAIL: Superior PVST BPDU rcvd on vlan [dec] port [chars], from [dec]-[chars] invoking root-guard to block port

Explanation This message indicates that a superior BPDU has been received on the VLAN port from the root, which caused root guard to block the port. VLAN [dec] is the VLAN number, [chars] is the port identifier, and [dec]-[chars] is the root ID.

Recommended Action Check the system configuration for bridge priority or Spanning Tree mode, and take the appropriate action for the desired topology.

Error Message SPANTREE-2-ROOTGUARDBLOCK: Port [chars] tried to become non-designated in [chars] [dec]. Moved to root-inconsistent state

Explanation This message indicates that a rootguard-enabled port received a superior BPDU, which moves the role of the port from designated to root or to blocking port. [chars] is the port number (a list for channel ports); the second [chars] is either *VLAN* when Per VLAN Spanning Tree + (PVST+) is running, or *instance* when MISTP is running; [dec] is the VLAN number or the instance number.

Recommended Action Reconfigure STP on the switch at the other end of the link to receive inferior BPDUs on the port indicated by the first [chars].

Error Message SPANTREE-2-ROOTGUARDUNBLOCK: Port [chars] restored in [chars] [dec]

Explanation This message indicates that a port that previously had an inconsistent root is moved back to a normal STP state because the switch on the other end of the link stopped sending superior BPDUs. The first [chars] is the port number (a list for channel ports); the second [chars] is either *VLAN* when PVST+ is running, or *instance* when MISTP is running; [dec] is the VLAN number or the instance number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SPANTREE-2-RX_1QNON1QTRUNK: Rcvd 1Q-BPDU on non-1Q-trunk port [chars] vlan [dec] from [chars]

Explanation This message indicates that the non-1Q-trunking (ISL) port has received at least one 1Q-tagged spantree BPDU frame on the receiving VLAN. [dec] is the module number, [chars] is the port number, [dec] is the VLAN number, and the second [chars] is the source MAC address of the BPDU.

Recommended Action Either reconfigure the non-1Q-trunking port into a 1Q-trunking port, or reconfigure the peer 1Q-trunking port into the corresponding non-1Q-trunking port.

Error Message SPANTREE-2-RX_1QNONTRUNK: Rcvd 1Q-BPDU on non-trunk port [dec]/[dec] vlan [dec] from [chars]

Explanation This message indicates that the nontrunking port has received at least one 1Q-tagged spantree BPDU frame on the receiving VLAN. [dec] is the module number, the second [dec] is the port number, the third [dec] is the VLAN number, and [chars] is the source MAC address of the BPDU.

Recommended Action Either reconfigure the nontrunking port into a 1Q-trunking port, or reconfigure the peer 1Q-trunking port into a nontrunking port.

Error Message SPANTREE-2-RX_1QPVIDERR: Rcvd pvid_inc BPDU on 1Q port [dec]/[dec] vlan [dec] from [chars]

Explanation This message indicates that the 1Q-trunking port has received at least one 1Q-tagged spantree BPDU frame with an inconsistent transmitting VLAN ID to the receiving port VLAN ID. [dec] is the module number, the second [dec] is the port number, the third [dec] is the VLAN number, and [chars] is the source MAC address of the BPDU.

Recommended Action Either reconfigure the receiving port VLAN ID to the same VLAN ID of the peer port, or reconfigure the peer port VLAN ID to the same VLAN ID of the receiving port.

Error Message SPANTREE-2-RX_BPDUGUARD: Received BPDU on bpdu guard enabled port. Disabling [chars]

Explanation This message indicates that the Spanning Tree BPDU Guard feature is enabled on the switch and the port received a BPDU from another bridge. [chars] is the module/port number.

Recommended Action If PortFast is enabled or if PortFast default is enabled globally, disable PortFast on the port. If BPDU guard is enabled on the port, disable it for the port, then reenale it.

Error Message SPANTREE-2-RX_BLKPORTPVID: Block [dec]/[dec] on rcving vlan [dec] for inc peer vlan [dec]

Explanation This message indicates that the system is blocking the port from receiving traffic on the receiving VLAN of the BPDU. [dec] is the module number, the second [dec] is the port number, the third [dec] is the receiving VLAN number, and the fourth [dec] is the peer VLAN number.

Recommended Action Either reconfigure the receiving port VLAN ID to the same VLAN ID of the peer port, or reconfigure the peer port VLAN ID to the same VLAN ID of the receiving port.

Error Message SPANTREE-2-SWOVER_TOOLONG: Switchover took too much time. All STP ports restarted

Explanation This message indicates that the switchover process took longer than four seconds to complete. As a result, all of the STP ports are restarted.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SPANTREE-2-TX_BLKPORTPVID: Block [dec]/[dec] on xmtting vlan [dec] for inc peer vlan

Explanation This message indicates that the system is blocking the port from receiving traffic from the transmitting VLAN by the BPDU. [dec] is the module number, the second [dec] is the port number, and the third [dec] is the VLAN number.

Recommended Action Either reconfigure the receiving port VLAN ID to the same VLAN ID of the peer port, or reconfigure the peer port VLAN ID to the same VLAN ID as the receiving port. The port is set to pvid-inconsistent state.

SPANTREE-3

Error Message SPANTREE-3-EVACT_NOTREG: unexpected HA-event received by STP on the active supervisor ([dec])

Explanation This message indicates that the active supervisor engine in spanning tree received an event it is not registered for. [dec] is the active supervisor engine number.

Recommended Action No action is required because the event in question is discarded.

Error Message SPANTREE-3-EVREC_NOTREG: unexpected HA-event received by STP for switchover recovery ([dec])

Explanation This message indicates that spanning tree received an event it is not registered for. The event was received after a High Availability switchover. [dec] is the supervisor engine number.

Recommended Action No action is required because the event in question is discarded.

Error Message SPANTREE-3-EVSTBY_NOTREG: unexpected HA-event received by STP on the active supervisor ([dec])

Explanation This message indicates that the redundant supervisor engine in spanning tree received an event it is not registered for. [dec] is the redundant supervisor engine number.

Recommended Action No action is required because the event in question is discarded.

SPANTREE-4

Error Message SPANTREE-4-UFAST_BRREGFAIL: Uplinkfast unable to register Ibipc port

Explanation This message indicates that the UplinkFast feature might not work with some Gigabit Ethernet modules.

Recommended Action Contact your technical service representative.

Error Message SPANTREE-4-UFAST_MGETFAIL: Uplinkfast unable to get mbuf

Explanation This message indicates that the UplinkFast task was unable to get a memory buffer. Fast convergence may not occur for some or all stations.

Recommended Action If this message is seen repeatedly, contact your technical support representative.

Error Message SPANTREE-4-UFAST_QFULL: Uplinkfast task does not exist or queue full

Explanation This message indicates that the notification of a change in a port forwarding status failed. Fast convergence will not occur for all end stations in some VLANs.

Recommended Action Contact your technical support representative.

SPANTREE-5

Error Message SPANTREE-5-MSTCONFIG_COMMIT: Changes to MST Configuration (Name: [chars] Revision [dec]) are saved

Explanation This message indicates that the new MST configuration from the edit buffer is successfully stored in NVRAM. [chars] is the filename, and [dec] is the file revision number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SPANTREE-5-MSTCONFIG_ROLLBACK: new mst configuration made by [chars] are discarded

Explanation This message indicates that the user has accessed the edit buffer and discarded the new configuration.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SPANTREE-5-MSTWITH_NEWCONFIG: MST spanning trees are restarted with the new configuration

Explanation This message indicates that if the spanning tree mode is MST, then the MST spanning trees are restarted with the new configuration stored in NVRAM. This message automatically appears after the MSTCONFIG_COMMIT message appears.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SPANTREE-5-PORTADD_FAILNONOPER: Port [dec]/[dec] in [dec] not up ([chars]) not added to STP

Explanation This message indicates that a port on a specific VLAN has not been added to the spanning tree because the port is not active. [dec]/[dec] is the module number/port number, [dec] is the VLAN number, and ([chars]) is the error message.

Recommended Action Try reenabling the port. Contact your technical support representative.

Error Message SPANTREE-5-PORTADD_FAILTRNONOPER: Port [dec] in [dec] not up - not added to STP

Explanation This message indicates that a port for a specific VLAN was not added to STP because the port is not operational. Port [dec] is the failed port number, and [dec] is the VLAN number.

Recommended Action Disable and reenable the port.

Error Message SPANTREE-5-PORTDEL_FAILNOTFOUND: [dec]/[dec] in vlan [dec] not found ([chars])

Explanation This message indicates that the port passed for deletion was not found in the spanning tree database. [dec]/[dec] is the module number/port number, vlan [dec] is the VLAN number, and ([chars]) is an identifier for the task that started the deletion.

Recommended Action No action is necessary. This message is for debugging purposes only.

Error Message SPANTREE-5-PORTDEL_FAILOUTRANGE: [dec]/[dec] - vlan [dec] out of range ([chars])

Explanation This message indicates that the port passed for deletion has not been deleted because the port VLAN is out of the valid range. [dec]/[dec] is the module number/port number, vlan [dec] is the VLAN number, and ([chars]) is an identifier for the task that started the deletion.

Recommended Action No action is necessary. This message is for debugging purposes only.

Error Message SPANTREE-5-PORTLISTEN: port [dec]/[chars] state in vlan [dec] changed to Listening

Explanation This message indicates that the specified port in the VLAN state has changed to listening. [dec]/[chars] is the module number/port number, and vlan [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SPANTREE-5-ROOTCHANGE: Root changed for Vlan [dec]: New root port [dec]/[dec]. New Root mac address is [chars]

Explanation This message indicates that a new root port or a new root bridge has been selected for a specified spanning tree instance. The first [dec] is the VLAN identifying the spanning tree instance, the next [dec]/[dec] is the module number and port number of the new root port, and [chars] is the MAC address of the new root bridge.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SPANTREE-5-TR_PORTLISTEN: trcrf [dec] in trbrf [dec] changed to Listening

Explanation This message indicates that the port associated with the specified TrCRF located in the specified TrBRF has changed to listening. The first [dec] is the TrCRF number, and the second [dec] is the TrBRF number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SPANTREE-5-UFAST_PORTFWD: port [dec]/[chars] in vlan [dec] moved to Fwding (UplinkFast)

Explanation This message indicates that the specified port in the VLAN has moved directly to the forwarding state with the UplinkFast feature. [dec]/[chars] is the module number/port number, and vlan [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

SPANTREE-6

Error Message SPANTREE-6-PORTBLK: port [dec]/[chars] state in vlan [dec] changed to blocking

Explanation This message indicates the specified port state in the VLAN changed to blocking. [dec]/[chars] is the module number/port number, and vlan [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SPANTREE-6-PORTFWD: port [dec]/[chars] state in vlan [dec] changed to forwarding

Explanation This message indicates the port state in the VLAN changed to forwarding. [dec]/[chars] is the module number/port number, and vlan [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SPANTREE-6-PORTLEARN: port [dec]/[chars] state in vlan [dec] changed to Learning

Explanation This message indicates that the specified port in the VLAN state has changed to learning. [dec]/[chars] is the module number/port number, and vlan [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SPANTREE-6-RX_INFBPDU: Received inferior BPDU on port [dec]/[chars] in vlan [dec]

Explanation This message indicates that the port is receiving BPDUs. This message indicates that the designated switch has lost connectivity to the root switch. This message appears only if you enable the BackboneFast feature. [dec]/[chars] is the module number/port number, and vlan [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SPANTREE-6-RX_RLQREPLY: Received RLQ response PDU on port [dec/chars] in vlan [dec]

Explanation This message indicates that the BackboneFast feature is attempting to fast converge, which means that a link has failed somewhere in the network, most likely at the specified port in the VLAN. [dec]/[chars] is the module number/port number, and vlan [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SPANTREE-6-RX_RLQREQ: Received RLQ request PDU on port [dec]/[chars] in vlan [dec]

Explanation This message indicates that the BackboneFast feature is attempting to fast converge, which means that a link has failed somewhere in the network, most likely at the specified port in the VLAN. [dec]/[chars] is the module number/port number, and vlan [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SPANTREE-6-SSTP_PORTBLK: Block [dec]/[dec] on rcving vlan [dec] for inc trunk port

Explanation This message indicates that the system is blocking the port from receiving traffic on the receiving VLAN. This situation prevents traffic looping, which might be caused by the peer port-type inconsistency. The port is set to type-inconsistent state. [dec] is the module number, the second [dec] is the port number, and the third [dec] is the VLAN number.

Recommended Action Either reconfigure the receiving port VLAN ID to the same VLAN ID of the peer port or reconfigure the peer port VLAN ID to the same VLAN ID as the receiving port VLAN ID.

Error Message SPANTREE-6-TR_MSGAGEEXPIRY: Msg Age timer expired on trcrf [dec] in trbrf [dec]

Explanation This message indicates that the specified TrCRF in the TrBRF has not received BPDUs for the message age time. The first [dec] is the port number, and the second [dec] is the VLAN number. Use the **show spantree** command to show the VLAN message age.

Recommended Action If this message is seen too often for the same VLAN and port, a fault is indicated. Contact your technical support representative.

Error Message SPANTREE-6-TR_PORTBLK: trcrf [dec] in trbrf [dec] changed to blocking

Explanation This message indicates that the TrCRF port corresponding to the TrBRF VLAN has changed to blocking. trcrf [dec] is the TrCRF port number, and trbrf [dec] is the TrBRF VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SPANTREE-6-TR_PORTFWD: trcrf [dec] in trbrf [dec] changed to forwarding

Explanation This message indicates that the TrCRF port corresponding to the TrBRF VLAN has changed to forwarding. trcrf [dec] is the TrCRF port number, and trbrf [dec] is the TrBRF VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SPANTREE-6-TR_PORTLEARN: trcrf [dec] in trbrf [dec] changed to Learning

Explanation This message indicates that the TrCRF port located in the TrBRF VLAN has changed to learning. The first [dec] is the port number, and the second [dec] is the VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

SPANTREE-7

Error Message SPANTREE-7-MISTPORTDEL_ERROR: [dec]/[dec] in vlan [dec] (instance [dec]) status [dec] ([chars])

Explanation This message indicates that an error occurred while deleting a port from spanning tree. [dec]/[dec] is the module number/port number, VLAN [dec] is the VLAN number, instance [dec] is the instance number the VLAN is assigned to, status [dec] is the status number, and [chars] is the name of the process trying to delete the port. This message does not always indicate an error in deleting a port. The message also can be displayed if the port does not exist, the port does not have any VLANs mapped to it, or that there are conflicting VLANs.

Recommended Action Examine the condition of the port. Contact your technical support representative.

Error Message SPANTREE-7-MISTPORTDEL_FAILNOTFOUND: [dec]/[dec] in vlan [dec] (instance [dec]) not found ([chars])

Explanation This message indicates that during the process of deleting a port from a VLAN, which is part of a MISTP instance, the port cannot be found. [dec]/[dec] is the module number/port number, VLAN [dec] is the VLAN number, instance [dec] is the instance number the VLAN is assigned to,

and [chars] is the name of the process trying to delete the port. This message does not always indicate an error in deleting a port. The message also can be displayed if the port does not exist, the port does not have any VLANs mapped to it, or that there are conflicting VLANs.

Recommended Action Examine the condition of the port. Contact your technical support representative.

Error Message SPANTREE-7-MSGAGEEXPIRY: Msg Age timer expired on port [dec/chars] in vlan [dec]

Explanation This message indicates that a BPDU was not received by the port for 20 seconds (assuming a default value of max_age). [dec]/[chars] designates the port, and vlan [dec] is the VLAN number. The port becomes a designated port.

Recommended Action An occasional message of this type is acceptable; however, if multiple messages occur within a short time for a specific VLAN, a fault is indicated. Because this message is per VLAN, multiple messages for different VLANs are normal. Contact your technical support representative.

Error Message SPANTREE-7-PORTADD_DISABLE: [dec]/[dec] in [dec] add stp - disable O[dec] E-[dec] S-[dec]

Explanation This message indicates that a port for a VLAN has been added to the spanning tree in a disable state. [dec]/[dec] is the module number/port number, [dec] is the VLAN number, O[dec] is operational or nonoperational, E-[dec] is enabled or disabled, and S-[dec] is supported or nonsupported.

Recommended Action Examine the condition of the port. Contact your technical support representative.

Error Message SPANTREE-7-PORTADD_FAILACTIVEVLAN: [dec]/[dec] in [dec] add fail A-[dec] ([chars])

Explanation This message indicates that a port on a VLAN has not been added to STP because the addSTP flag is set to false. [dec]/[dec] is the module number/port number, [dec] is the VLAN number, A-[dec] is the addSTP flag value, and ([chars]) is the error message.

Recommended Action No action is necessary. This message is for debugging purposes only.

Error Message SPANTREE-7-PORTADD_FAILAGPORT: [dec]/[dec] in [dec] agport=0 ([chars]) not add STP

Explanation This message indicates that a port for a VLAN has failed to add to STP because the corresponding AgPort number is 0. [dec]/[dec] is the module number/port number, [dec] is the VLAN number, and ([chars]) is the error message.

Recommended Action Contact your technical support representative.

Error Message SPANTREE-7-PORTADD_FAILCLCFG: [dec]/[dec] in [dec] cl-cfg ([chars])
not add STP

Explanation This message indicates that adding a port for a VLAN has failed because a clear configuration operation is running on the system. [dec]/[dec] is the module number/port number, [dec] is the VLAN number, and ([chars]) is the message.

Recommended Action Disable and reenable the port. If that fails to resolve the problem, contact your technical support representative.

Error Message SPANTREE-7-PORTADD_FAILINACTIVEVLAN: [dec]/[dec] in [dec] add fail
S-[dec] ([chars])

Explanation This message indicates that a port for a VLAN has failed to be added to spanning tree because the VLAN is inactive. [dec]/[dec] is the module number/port number, [dec] is the VLAN number, S-[dec] is supported or nonsupported, and [chars] is the error message.

Recommended Action Activate the VLAN to add the port. Contact your technical support representative.

Error Message SPANTREE-7-PORTDEL_FAILEMPTYVLAN: [dec]/[dec] - vlan [dec] empty
([chars])

Explanation This message indicates that the VLAN referred to for port deletion does not contain the ports. [dec]/[dec] is the module number/port number, vlan [dec] is the VLAN number, and ([chars]) is an identifier for the task that started the deletion.

Recommended Action No action is necessary. This message is for debugging purposes only.

Error Message SPANTREE-7-PORTDEL_SUCCESS: [dec]/[dec] removed from vlan [dec]
([chars])

Explanation This message indicates that the deletion has completed successfully. [dec]/[dec] is the module number/port number, vlan [dec] is the VLAN number, and ([chars]) is an identifier for the task that started the deletion.

Recommended Action No action is necessary. This message is for debugging purposes only.

Error Message SPANTREE-7-PORTDEL_SUCCESSFROMCHN: [dec]/[dec] in vlan [dec] deleted
- channel still on ([chars])

Explanation This message indicates that the port has been deleted, but it was part of a channel and the channel is still on. [dec]/[dec] is the module number/port number, vlan [dec] is the VLAN number, and ([chars]) is an identifier for the task that started the deletion.

Recommended Action No action is necessary. This message is for debugging purposes only.

SYS Messages

This section contains the system (SYS) messages, including system semaphore messages.

SYS-0

Error Message SYS-0-CHAN_HMDIAGFAIL: Channel [dec] shutdown due to successive health-monitoring test failures

Explanation This message indicates that all ports in a channel (each channel contains eight ports) failed the health-monitoring test ten times. The port goes into faulty mode and shuts down. [dec] is the number of failures.

Recommended Action Determine which ports have been put into faulty mode. Reset the switching module. When the switching module comes back online, determine if there are numerous packet drops on any of the faulty ports. Additional packet drops might indicate a faulty configuration. Correct the configuration if necessary. If the problem persists, contact your technical support representative.

Error Message SYS-0-CKP_FLASH_CONFIGSYNCSTART:Active supervisor is synchronizing config file [chars]

Explanation The active supervisor engine is synchronizing the configuration file. [chars] is the name of the configuration file.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-0-CKP_FLASH_CONFIGSYNCFINISH:Active supervisor has synchronized config file [chars]

Explanation The active supervisor engine has synchronized the configuration file. [chars] is the name of the configuration file.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-0-FAB_DISABLEPORT: Last switch fabric module [dec] down. Disabling all ports

Explanation This message indicates that the system crossbar-fallback is set to none. When the last switch fabric module is removed, all ports on both fabric-compatible and non-fabric-compatible modules are disabled. [dec] is the last switch fabric module number.

Recommended Action The system attempts to recover by resynchronizing or resetting the module. If the system cannot recover the module, try replacing the module.

Error Message SYS-0-FAN_SYSTEMSHUTDOWNCHEDULED: System shutdown scheduled in [dec] min, fan tray version incompatible

Explanation This message indicates that the fan tray software is version 1 and the supervisor engine requires fan tray software version 2. [dec] is for the number of minutes before the system shuts down. The default value is 5 minutes.

Recommended Action At the debug-eng prompt, enter **set env shuttime**.

Error Message SYS-0-FIFOBUS_AUTOSHUT: FIFO bus overflow error detected [dec] times in less than [dec] mins. Shutting down module [dec].

Explanation This message indicates that the FIFO threshold value of a switching module is lowered and the switching module still runs into the overflow errors a specified number of times in less than ten minutes. The switching module is powered down. The first [dec] is the number of times the error is detected, the second [dec] is the number of minutes, and the third [dec] is the switching module number.

Recommended Action Manually power up the module if required. If the problem persists, contact your technical support representative.

Error Message SYS-0-FIFOBUS_WARN: Bus FIFO overflow detected again. FIFO thresholds already set to a lower value.

Explanation This message indicates that a switching module receives FIFO overflow errors even after lowering the FIFO threshold register values.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-0-MOD_ATMEXCEED: Max limit of atm/rsm card in the system exceeded

Explanation This message indicates that system configuration has exceeded the maximum allowed number of ATM and RSM modules.

Recommended Action Check your release notes for the supported configuration.

Error Message SYS-0-MOD_INBANDFAILURE: Module [dec] local inband failure...
resetting module

Explanation This message indicates that a communication error occurred between the active and the standby NMP supervisor engine processors and that the error was caused by a problem on the local supervisor engine module. [dec] is the module number of the failing supervisor engine.

Recommended Action The system attempts to recover by resetting the failing supervisor engine. If the problem persists, contact your technical support representative.

Error Message SYS-0-MOD_INSTANCEBAD: Unable to assign instance for module [dec]

Explanation This message indicates that the instance is not assigned to the module. [dec] is the module number.

Recommended Action Verify that the module is booted and online. If the problem persists, contact your technical support representative.

Error Message SYS-0-MOD_NOATMINFO: Unable to obtain atm information for module [dec]

Explanation This message indicates that the instance is not assigned to the ATM module. [dec] is the module number.

Recommended Action Verify that the module is online. If the problem persists, contact your technical support representative.

Error Message SYS-0-MOD_NOSLCPRESPONSE: Module [dec] SLCP not responding...
resetting module

Explanation This message indicates that the supervisor engine processor failed to respond to requests from the supervisor engine NMP. [dec] is the module number.

Recommended Action No action is required unless the module fails again. If this happens, replace the supervisor engine.

Error Message SYS-0-MOD_PFCMISMATCH: PFC mismatch on module [dec], disabling standby supervisor

Explanation This message indicates that the installed PFC version on the standby supervisor engine does not match (or is not compatible) with the installed version on the active supervisor engine. [dec] is the standby supervisor engine number. The active supervisor engine will drop the standby supervisor engine to ROMMON.

Recommended Action Replace the standby supervisor engine with one that matches the PFC version installed on the active supervisor engine.

Error Message SYS-0-MOD_PWRDNBADPORT: Module will be powered down, bad transceiver in port [dec]/[dec]

Explanation This message indicates that a faulty XENPAK is inserted into a WS-X6704-10GE switching module. The XENPAK can cause the switching module to overheat and exceed the major temperature threshold.

Recommended Action Remove and replace the XENPAK.

Error Message SYS-0-MOD_SCPLOCALERROR: Module [dec] local SCP error detected...
resetting module

Explanation This message indicates that there is a problem with the supervisor engine serial channel used for out-of-band communication with other modules in the system. [dec] is the module number where the error occurred.

Recommended Action The system attempts to recover by resetting the supervisor engine. If the problem persists, replace the supervisor engine.

Error Message SYS-0-MOD_TEMPMAJORFAIL: Module [dec] major temperature threshold exceeded

Explanation This message indicates that the module temperature sensor has detected a temperature that exceeds the major temperature threshold. [dec] is the slot number of the module that detected the elevated temperature.

Recommended Action Check the air conditioning system supplying air to the room in which the system is located in. Adjust the temperature if necessary.

Error Message SYS-0-MOD_TEMPMAJORRECOVER: Module [dec] major temperature threshold recovered

Explanation This message indicates that the module temperature has dropped below the major temperature threshold. The module shutdown has been canceled, and the system returns to normal operation. [dec] is the module slot number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-0-MOD_THERMALSHUTDOWN: Module [dec] 'shutdown' temperature threshold exceeded on CPU [dec]\n

Explanation This message indicates that the CPU on a switching module exceeds the operating temperature threshold and is at risk of being shut down. The first [dec] is the module number, and [dec]\n is the CPU number.

Recommended Action Make sure that the fans are providing adequate cooling in the chassis and that the chassis vents are clear.

Error Message SYS-0-MOD_THERMALWARNING: Module [dec] 'warning' temperature threshold exceeded on CPU [dec]\n

Explanation This message indicates that the CPU on a switching module is approaching the operating temperature threshold. The first [dec] is the module number, and [dec]\n is the CPU number.

Recommended Action Make sure that the fans are providing adequate cooling in the chassis and that the chassis vents are clear.

Error Message SYS-0-PORT_HMDIAGFAIL: Port [chars] shutdown due to [dec] consecutive health-monitoring test failures

Explanation This message indicates that a single port failed the background health-monitoring test (performed by diags) ten times. The port goes into faulty mode and shuts down. [chars] is the port and [dec] is the number of failures.

Recommended Action Determine which ports have been put into a faulty state. Reset the switching module. When the switching module comes back online, check if there are numerous packet drops on any of the ports that were faulty. Numerous packet drops might indicate a bad configuration. Correct the configuration if necessary. If the problem persists, contact your technical support representative.

Error Message SYS-0-SUP_NO_SWMODE: Active switching mode not available, resetting standby

Explanation After the standby supervisor engine boots, it tries to query the active supervisor engine to find out which fabric switching mode it is using so that it can set its switch mode to the same setting. If the active supervisor engine does not return a valid switching mode on the first query, the standby supervisor engine waits five seconds and tries again. If the second attempt fails, the standby supervisor engine waits one minute and tries again. If this third query fails, the standby supervisor engine displays this message and resets.

Recommended Action If the standby supervisor engine keeps resetting itself, replace it. If a new standby supervisor engine repeatedly displays this system message and resets itself, replace the active supervisor engine.

Error Message SYS-0-SUP_TEMPMAJORFAIL: Supervisor in slot [dec] [chars] major temperature threshold exceeded

Explanation This message indicates that the supervisor engine temperature sensor has detected a temperature exceeding the major temperature threshold. The supervisor engine shuts down after a 5-minute time delay has expired. If the temperature drops below the major threshold level before the time delay expires, the shutdown is canceled. [dec] is the slot number of the supervisor engine that detected the elevated temperature, and [chars] is the name of the submodule on the supervisor engine.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-0-SUP_TEMPMAJORRECOVER: Supervisor in slot [dec] [chars] major temperature threshold recovered

Explanation This message indicates that the supervisor engine temperature has dropped below the major temperature threshold. The supervisor engine shutdown has been canceled, and the system returns to normal operation. [dec] is the supervisor engine slot number, and [chars] is the name of the submodule on the supervisor engine.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-0-SYS_LCPERR0:Module [dec]: Coil Mdtif Parity Error - Port #[dec]

Explanation This message indicates an error in the port ASIC. The first [dec] is the module number. The second [dec] is the ASIC port number.

Recommended Action Replace the module if the error occurs several times, or contact your technical support representative.

Error Message SYS-0-SYS_LCPERR0:Module [dec]: Coil Pb Rx Parity Error - Port #[dec]

Explanation This message indicates an error in the port ASIC. The first [dec] is the module number. The second [dec] is the ASIC port number.

Recommended Action Replace the module if the error occurs several times, or contact your technical support representative.

Error Message SYS-0-SYS_SCHERESET: Schedule reset will happen in [chars]

Explanation This message indicates that a reset is scheduled to occur sometime in the future. [chars] is the amount of time left before the reset happens; the value can be 2 hours, 1 hour, 30 minutes, 5 minutes, or 1 minute.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-0-SYS_TEMPMAJORFAIL: Chassis major temperature threshold exceeded

Explanation This message indicates that the chassis temperature sensor has detected a temperature exceeding the major temperature threshold. The system shuts down after a 5-minute time delay has expired. If the temperature drops below the major threshold level before the time delay expires, the system shutdown is canceled.

Recommended Action Contact your technical support representative.

Error Message SYS-0-SYS_TEMPMAJORRECOVER: Chassis major temperature threshold recovered

Explanation This message indicates that the chassis temperature has dropped below the major temperature threshold. The automatic system shutdown has been canceled, and the system returns to normal operation.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-0-TEMP_CRITFAIL: Temp critical failure

Explanation This message indicates that the internal temperature has risen above 70°C (158°F). If the temperature remains above 70°C (158°F), the system automatically powers down after 5 minutes. This message applies only to the redundant supervisor engine in the switch.

Recommended Action Power down the system and contact your technical support representative.

Error Message SYS-0-TEMP_CRITOK: Temp critical okay

Explanation This message indicates that the internal temperature has dropped below 70°C (158°F). This message applies only to the redundant supervisor engine in the switch.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-0-TEMP_CRITRECOVER: Temp critical recovered

Explanation This message indicates that the internal temperature dropped below 70°C (158°F), and the automatic power down was canceled. This message applies only to the redundant supervisor engine in the switch.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-0-VTT_MAJORFAIL: VTT major alarm. Two VTT modules failed

Explanation This message indicates that at least two of the three voltage termination (VTT) modules have failed. A minimum of two VTT modules are required for the system to function properly. The switching bus is disabled, and the supervisor engine is accessible through the console port.

Recommended Action Replace the bad VTT modules. Contact your technical support representative.

SYS-1

Error Message SYS-1-CFG_ACL_DEALLOC: NVRAM full. Qos/Security ACL configuration deleted from NVRAM

Explanation This message indicates that NVRAM is full and that the ACL configuration is currently only stored in DRAM.

Recommended Action Make more room in Flash, and try to save the ACL file configuration to NVRAM again.

Error Message SYS-1-CFG_CSFAIL: [chars] block checksum failed

Explanation This message indicates that the configuration block checksum failed. [chars] is the block type that can be modified by the user or the process.

Recommended Action Contact your technical support representative.

Error Message SYS-1-CFG_DEALLOC: [chars] block deallocated

Explanation This message indicates that the configuration block was deallocated. [chars] is the block type that can be modified by the user or the process.

Recommended Action Contact your technical support representative.

Error Message SYS-1-CFG_FLASH: ACL configuration moved to bootflash [chars]

Explanation This message indicates that during the software upgrade, the ACL configuration has moved to NVRAM. [chars] is the name of the file.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-1-CFG_FLASH_ERR: Failed to write ACL configuration to bootflash: [chars]

Explanation This message indicates that a failure occurred in writing the ACL configuration file to NVRAM. [chars] is the name of the file.

Recommended Action Make more room in Flash and try to save the ACL file configuration to NVRAM again.

Error Message SYS-1-CFG_RESTORE: [chars] block restored from backup

Explanation This message indicates that the configuration block has been restored from backup. [chars] is the block type that can be modified by the user or the process.

Recommended Action Contact your technical support representative.

Error Message SYS-1-FAB_DISABLEPORTERR: Failed to disable port [dec]/[dec]

Explanation This message indicates that one or more module ports failed as they were being disabled after the failure or removal of the last switch fabric module and the **set system crossbar-fallback** command is set to none. [dec]/[dec] is the module number/port number.

Recommended Action The system attempts to recover by resynchronizing or resetting the module. If the system cannot recover the module, try replacing the module.

Error Message SYS-1-FAB_MODSYNCERR: Connection between switch fabric module [dec] and module [dec] failed

Explanation This message indicates that multiple synchronization errors have occurred between the switch fabric module and a module. The module is either reset or shut down unless there are multiple modules experiencing synchronization errors. In this situation, the switch fabric module is shut down. The first [dec] is the switch fabric module number, and the second [dec] is the failing module number.

Recommended Action The system will attempt to recover by resynchronizing or resetting the module. If the system cannot recover the module, try replacing the module.

Error Message SYS-1-FAB_MULTISYNCCERR: Multiple fabric channel sync errors

Explanation This message indicates that the fabric channel has experienced an error and that the channel is still not synchronized after a retry.

Recommended Action The system attempts to recover by resynchronizing or resetting the module. If the system cannot recover the module, try replacing the module.

Error Message SYS-1-FAB_NORESPONSE: Module [dec] not responding to switch mode change message

Explanation This message is in response to a module being powered down after failing to switch to flow-through mode. When the system is in compact or truncated mode and the last fabric switching module is removed, a request is sent to all modules equipped with the fabric channel interface telling them to switch to flow-through mode. The request is resent to any modules that failed to respond to the first request. If they fail to respond again, the modules are powered down. [dec] is the number of the module that failed to switch over.

Recommended Action The system attempts to recover by resynchronizing or resetting the module. If the system cannot recover the module, try replacing the module.

Error Message SYS-1-FAB_SWOVER: Fabric channel errors on active switch fabric module [dec]

Explanation This message indicates that multiple errors occurred between the active switch fabric module and the switching module and that all recovery actions have been exhausted. The system now switches over to the standby switch fabric module. [dec] is the switch fabric module number.

Recommended Action The system attempts to recover by resynchronizing or resetting the module. If the system cannot recover the module, try replacing the module.

Error Message SYS-1-FAB_SYNCFAIL: Connection between switch fabric module [dec] and [chars] supervisor failed

Explanation This message indicates that a channel error has occurred between the switch fabric module and the supervisor engine. [dec] is the switch fabric module number, and [chars] is the redundant supervisor engine.

Recommended Action The system attempts to recover by resynchronizing or resetting the module. If the system cannot recover the module, try replacing the module.

Error Message SYS-1-FAB_SYNCHMISMATCH: Fabric removed during synch process. Reset the module [dec]

Explanation This message indicates that during a synchronization process, one of the two modules at the end of the fabric channel is removed. [dec] is the number of the removed module.

Recommended Action The system attempts to recover by resynchronizing or resetting the module. If the system cannot recover the module, try replacing the module.

Error Message SYS-1-MOD_INVALIDSEQ: Bus asic invalid sequence occurred on module [dec] (asic=[dec], srcidx=0x[hex], seq=[dec])

Explanation This message indicates a system boot on systems with redundant supervisor engines. As the system boots up, the supervisor engine in slot 2 runs diagnostics on all of the modules to verify that it can be the redundant supervisor engine. This supervisor engine then turns control over to the supervisor engine in slot 1.

During the transition, there are no packet transfers on the backplane. There is a sequence number associated with each packet transferred on the backplane. The modules remember the last sequence number N sent. When the active supervisor engine takes over and begins sending packets, it does not start with sequence number N+1. The sequence error is detected by the modules that generate the error message. Module [dec] is the module number detecting the error, asic=[dec] is the asic number, srcidx=[hex] is the error string, and seq=[dec] is the sequence number.

Recommended Action This message can occur in systems with redundant supervisor engines. It should not occur in systems with only one supervisor engine. No action is necessary. This message is provided for information only.

Error Message SYS-1-MOD_MACBAD: Module [dec] has invalid MAC address, [chars]

Explanation This message indicates that the supervisor engine module has an invalid MAC address. [dec] is the module number, and [chars] is one of the following text messages: remains offline or bypass enabled.

Recommended Action This message is provided for information only but might indicate the MAC address of the supervisor engine is the same as the default MAC address (00-40-4b-ff-00-00). Enter the **show mac mod_num/port_num** command to check the module MAC address. If the listed MAC address is the default MAC address, contact your technical support representative.

Error Message SYS-1-MOD_MINORFAIL: Minor problem in module [dec]

Explanation This message indicates that a module failed the self-test. [dec] is the module number.

Recommended Action Reset the module. If this message reappears, insert a new module. If this message reappears after inserting a new module, contact your technical support representative.

Error Message SYS-1-MOD_MSFC_FAILONLINE: MSFC Module [dec] FAILED to come ONLINE

Explanation This message indicates that the MSFC module (number 15 or 16) did not come online due to an error. [dec] is the module number.

Recommended Action Reset the MSFC module. If that does not solve the problem, contact your technical support representative.

Error Message SYS-1-MOD_MSFC_INCOMPATIBLEIMAGE: MSFC Module [dec] Image Upgrade Required to support Inband Port ASIC present in System

Explanation This message indicates that the image running on the MSFC module is not compatible with the hardware on the system. [dec] is the module number (15 or 16).

Recommended Action Upgrade the software image on the switch.

Error Message SYS-1-MOD_PFCMISMATCH: PFC mismatch on module [dec], disabling standby supervisor

Explanation This message indicates that the installed PFC version on the standby supervisor engine does not match (or is not compatible) with the installed version on the active supervisor engine. [dec] is the standby supervisor engine number. The active supervisor engine will drop the standby supervisor engine into ROMMON state.

Recommended Action Replace the standby supervisor engine with one that matches the PFC version installed on the active supervisor engine.

Error Message SYS-1-MOD_PATHTESTFAIL: Path test failure occurred on module [dec]

Explanation This message indicates that the test of the local data path has failed. [dec] is the module number where the failure occurred.

Recommended Action Contact your technical support representative.

Error Message SYS-1-MOD_PWRSPROMFAIL: Power mgmt srom failure for module [dec]

Explanation This message indicates that a serial EPROM read on a module has failed. [dec] is the module number. The module is powered off.

Recommended Action Reseat and then reset the module. Check to see if the software version supports the module. If not, upgrade the software. If the message persists, contact your technical support representative.

Error Message SYS-1-MOD_SEQERROR: Switching bus sequence error occurred on module [dec]

Explanation This message indicates that a bus ASIC on the reporting module sensed a bus sequence error. The ASIC will automatically recover. [dec] is the number of the module reporting the error.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-1-MOD_SEQMISMATCH: Bus ASIC sequence mismatch occurred on module [dec] (asic=[dec], srcidx=0x[hex], seq=[dec])

Explanation This message indicates that the bus ASIC on a module has reported a bus sequence mismatch error. Module [dec] is the module reporting the error, ASIC [dec] is the ASIC number reporting the error, srcidx [hex] is the source index to header value, and seq [dec] is the sequence number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-1-SYS_DISABLEPS: Rating of power supplies in redundancy not equal, power supply [dec] disabled

Explanation This message indicates that the power rating of the power supplies do not match and one power supply is being shut down. [dec] is the number of the power supply being shut down.

Recommended Action Make sure that both power supplies in the chassis have the same power rating.

Error Message SYS-1-SYS_ENABLEPS: Power supply [dec] enabled

Explanation This message indicates that the power supply is enabled. [dec] is the power supply number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-1-SYS_IDPROMBAD: Chassis idprom data invalid

Explanation This message indicates that the chassis serial EEPROM data is invalid.

Recommended Action Contact your technical support representative.

Error Message SYS-1-SYS_MACBAD: Chassis has invalid MAC address, using module MAC address

Explanation This message indicates that the chassis has an invalid MAC address.

Recommended Action This message is provided for information only but could indicate that the MAC address of the chassis is the same as the default MAC address (00-40-4b-ff-00-00). Contact your technical support representative.

Error Message SYS-1-SYS_NORMPWRMGMT: System in normal power management operation

Explanation This message indicates that the system is operating in normal power-management mode; both active and redundant supervisor engines have equal power requirements.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-1-SYS_OVERPWRRTNG: System drawing more power than the power supply rating

Explanation This message indicates that the system is drawing more power than the power supply rating. The power management LED is red. This condition can occur only when the system is fully configured and the supervisor engines are drawing unequal power.

Recommended Action Contact your technical support representative.

Error Message SYS-1-SYS_SCHEDRESETCANCEL: Schedule reset cancelled by [chars]

Explanation This message indicates that a scheduled reset has been cancelled by either an internal error or by the user. [chars] is the user or an internal error.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-1-SYS_SCHEDRESETDELAY: System is not ready for reset yet. Scheduled reset will be delayed for [chars]

Explanation This message indicates that the system is not ready for the scheduled reset and that the reset will be delayed. [chars] is the amount of time for the delay.

Recommended Action No action is necessary. This message is provided for information only.

SYS-2

Error Message SYS-2-CFG_FLASH_NO_FILE: ACL configuration set to flash but no ACL configuration file found

Explanation This message indicates that the ACL configuration file was sent to Flash but the file was not found in Flash.

Recommended Action Contact your technical support representative.

Error Message SYS-2-DTP_MODDOWN: Module Down: cfg port trunk-hw failed [dec]/[dec]

Explanation This message indicates that the port trunk hardware failed to set because the module is not online. [dec]/[dec] is the module number/port number.

Recommended Action Contact your technical support representative.

Error Message SYS-2-DTP_MODEEMPTY: Module Empty: cfg port trunk-hw failed [dec]/[dec]

Explanation This message indicates that the port trunk hardware failed to set because the module is empty. [dec]/[dec] is the module number/port number.

Recommended Action Contact your technical support representative.

Error Message SYS-2-DTP_MODSTDBY: Module standby: cfg port trunk-hw failed [dec]/[dec]

Explanation This message indicates that trunk hardware on the port failed to set because the module is in standby mode. [dec]/[dec] is the module number/port number.

Recommended Action Contact your technical support representative.

Error Message SYS-2-DTP_SCPFAIL: SCP failure: cfg port trunk-hw failed [dec]/[dec]

Explanation This message indicates that the port trunk hardware failed to set because the SCP message was not sent successfully. [dec]/[dec] is the module number/port number.

Recommended Action Contact your technical support representative.

Error Message SYS-2-FAN_FAIL: Fan failed

Explanation This message indicates that the chassis fan failed.

Recommended Action Replace the fan.

Error Message SYS-2-FAN_NFAIL: Fan [dec] failed

Explanation This message indicates that a fan tray has failed. [dec] is the fan tray number.

Recommended Action Replace the fan tray.

Error Message SYS-2-FAN_NOK: Fan [dec] okay

Explanation This message indicates that the chassis fan tray was plugged back in or returned to a proper state.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-2-FAN_OK: Fan okay

Explanation This message indicates that the chassis fan tray was plugged back in or returned to a proper state.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-2-MOD_INBANDCPU: CPU (5sec): [dec].[dec][dec] CPU (1min): [dec].[dec][dec] Backplane: [dec].[dec][dec]

Explanation This message indicates the CPU utilization as a percentage value at 5-second and at 1-minute intervals. The backplane traffic percentage value also is displayed. All three [dec].[dec][dec] variables are the displayed percentage values.

Recommended Action If this message is continually repeated, contact your technical support representative.

Error Message SYS-2-MOD_INBANDERROR: Module [dec] local inband error detected

Explanation This message indicates that a communications error has occurred between the active and redundant NMP supervisor engine processors. The error occurred due to a problem on the local supervisor engine. This message comes up first and some recovery processes are attempted. If the supervisor engines still cannot communicate after multiple retries, the SYS-0-MOD_INBANDFAILURE message displays. [dec] is the failing supervisor engine number.

Recommended Action The system attempts to recover the failing supervisor engine. If the problem persists, contact your technical support representative.

Error Message SYS-2-MOD_INBANDOK: Module [dec] inband ok

Explanation This message indicates that the inband communications from the supervisor engine to the module has recovered after a failure. [dec] is the number of the recovered module.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-2-MOD_INBANDRATE: Module [dec] inband rate: rx=[dec] pps, tx=[dec] pps

Explanation This message indicates the inband data transfer rate for a module. The first [dec] is the module number, the second [dec] is the data receive rate in packets per second, and the third [dec] is the data transmit rate in packets per second.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-2-MOD_INBANDTEST: Module [dec] error detected... testing

Explanation This message indicates that the inband communications channel has detected an error between a module and the supervisor engine and that testing is taking place. [dec] is the module number.

Recommended Action Contact your technical support representative.

Error Message SYS-2-MOD_INBANDTESTOK: Module [dec] test ok.

Explanation This message indicates that the inband communications channel testing of the module has passed. The fault might be in the redundant supervisor engine. [dec] is the module number.

Recommended Action Contact your technical support representative.

Error Message SYS-2-MOD_NOINBANDRESPONSE: Module [dec] not responding over inband

Explanation This message indicates that the module is not responding to the supervisor engine requests over the inband communication channel. This error can be caused by the following reasons: the supervisor engine being excessively busy; spanning tree protocol loops; ACLs and QoS policers throttling or dropping traffic over the inband communications channel; port ASIC synchronization problems; or Switch Fabric Module problems. [dec] is the number of the module not responding.

Recommended Action If the problem persists, contact your technical support representative.

Error Message SYS-2-MOD_NOSCPRESPONSE: Module [dec] not responding over SCP

Explanation This message indicates that a module has failed to respond to the supervisor engine requests over the out-of-band communication channel. This error can occur when the out-of-band channel is busy. [dec] is the number of the module not responding.

Recommended Action If the problem persists, contact your technical support representative.

Error Message SYS-2-MOD_SCPERROR2: Module [dec] local SCP error detected...
resetting

Explanation This message indicates that there is a problem with the supervisor engine serial channel used for out-of-band communication with other modules in the system. [dec] is the failing supervisor engine number.

Recommended Action The system attempts to recover by resetting the failing supervisor engine. If the problem persists, replace the failing supervisor engine.

Error Message SYS-2-MOD_SLPERROR: Module [dec] local SLP error detected... resetting

Explanation This message indicates that there is a problem with the supervisor engine serial channel used for out-of-band communication with the redundant supervisor engine. [dec] is the failing supervisor engine number.

Recommended Action The system attempts to recover by resetting the failing supervisor engine. If the problem persists, replace the supervisor engine.

Error Message SYS-2-MOD_SLPINBANDREMOTE: Detecting SLP and the inband remote failure
resetting slot [dec]

Explanation This message indicates that the supervisor engine is unable to communicate with the redundant supervisor engine over the SLP out-of-band channel and the inband communication channel. [dec] is the number of the redundant supervisor engine.

Recommended Action The system attempts to recover by resetting the redundant supervisor engine. If the problem persists, contact your technical support representative.

Error Message SYS-2-MOD_SLPREMOTE: Detecting SLP remote failure to slot [dec]

Explanation This message indicates that a module failed to respond to the supervisor engine requests over the out-of-band communication channel. [dec] is the number of the failing module.

Recommended Action If this problem persists, contact your technical support representative.

Error Message SYS-2-MOD_TEMPMINORFAIL: Module [dec] minor temperature threshold exceeded

Explanation This message indicates that the module temperature sensor has detected a temperature that exceeds the minor temperature threshold. [dec] is the slot number of the module that detected the elevated temperature.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-2-MOD_TEMPOK: Module [dec] temperature OK

Explanation This message indicates the module temperature has dropped below the minor temperature threshold.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-2-MOD_TEMPSENSORFAIL: Module [dec] temperature sensors failed, please powercycle the module

Explanation This message indicates that the system has detected a fault in a module temperature sensor. [dec] is the module number.

Recommended Action Remove and reinstall the module in the chassis.

Error Message SYS-2-MOD_TEMPSENSOROK: Module [dec] temperature sensors OK

Explanation This message indicates that the supervisor engine temperature sensors that were previously identified as failing are now working correctly.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-2-MOD_TEMPshutdown: Module [dec] shutdown due to high temperature reading

Explanation This message indicates that a temperature exceeding the threshold has been detected on the module causing the module to shut down. [dec] is the module number.

Recommended Action Check the fan tray assembly in the chassis to make sure that there is adequate airflow through the chassis.

Error Message SYS-2-P2_CRIT: 1/Out of chunks of memory messages

Explanation This message indicates that there is a high volume of UDP traffic on port 1434, which is generated between hosts infected by a worm. This problem may lead to performance issues on networks that have both infected and are targeted, but nonvulnerable hosts. The worm that targets SQL Server computers, self-propagates malicious code that most likely exploits vulnerabilities in the Resolution Service of Microsoft SQL Server 2000.

Recommended Action Apply a patch on all systems running Microsoft SQL Server 2000.

Error Message SYS-2-P2_LogGalInsufficientFansShutdown: Resetting linecards due to too few working fans

Explanation This message indicates that one or more fans in the fan tray or fans in the power supplies has failed. The modules have been reset to reduce heat generation.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-2-P2_LogGalInsufficientPowerShutdown: Resetting linecards due to insufficient power

Explanation This message indicates that the system was running on less than the required number of power supplies for more than the allowed time. The modules have been reset to reduce power consumption.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-2-P2_LogGalOverheatingShutdown: Resetting linecards due to critical temperature

Explanation This message indicates that the critical temperature for the system has been exceeded. The modules have been reset to reduce heat generation.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-2-P2_LogGalSeepromInvalid: Module's serial eeprom is invalid, must manually program

Explanation This message indicates that the contents of the supervisor engine serial EEPROM is invalid, and the switch cannot come up.

Recommended Action This situation can occur if the read failed because the supervisor engine is not seated correctly in the slot. Try removing and reinserting the supervisor engine. If that action does not work, cycle the power on the switch.

Error Message SYS-2-P2_LogStoreOutOfChunks: Out of chunks of memory

Explanation This message indicates that the system has run out of memory.

Recommended Action Contact your technical support representative.

Error Message SYS-2-P2_LogVc5WatchdogTriggered: NMP Watchdog triggered, system will now reset, please wait...

Explanation This message indicates that the NMP management software has not reset the watchdog timer. An infinite loop might exist, or the system might have crashed.

Recommended Action Contact your technical support representative.

Error Message SYS-2-PS_FAIL: Power supply [dec] failed

Explanation This message indicates that the power supply failed. [dec] is the power supply number.

Recommended Action Replace the indicated power supply.

Error Message SYS-2-PS_FANFAIL: Power supply [dec] fan failed

Explanation This message indicates that the power supply fan failed. [dec] is the power supply number.

Recommended Action Replace the indicated power supply fan.

Error Message SYS-2-PS_INSUFFICIENT: Insufficient power supplies operating, this system requires [dec] and only has [dec]

Explanation This message indicates that the system has detected a mismatch between the amount of power required by the modules and the amount of power supplied by the power supplies. The first [dec] is the number of supplies necessary to power the system, and the second [dec] is the number of power supplies detected in the system.

Recommended Action In a system that has redundant power supplies, one of the two supplies may have shut down or is not producing sufficient power. Check the power supplies for low or missing voltages.

Error Message SYS-2-PS_MAJORPOWERALARM: System power usage exceeds the maximum range of [chars] W, the used power will be reduced in [dec] min

Explanation Power usage on some chassis must be limited because of the heat dissipation. When the power usage exceeds the maximum allowed range, this message appears and a timer is started. When the timer expires, ports and/or switching modules are powered down to bring the power usage within the allowed range. [chars] represents the maximum power usage, and [dec] is the timer setting in minutes.

Recommended Action Power down some switching modules and/or inline power ports on the switch. If the system recovers and the SYS-2-PS_MAJORPOWERALARMRECOVER message appears, the system is functioning properly. If the SYS-2-PS_MAJORPOWERALARM message returns, then the system is still using too much power. Power down additional switching modules and/or inline power ports until the system recovers.

Error Message SYS-2-PS_MAJORPOWERALARMRECOVER: System power usage returned to the allowed range

Explanation This message indicates that the power usage has dropped below the maximum power usage setting before the timer could expire.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-2-PS_NFANFAIL: Power supply [dec] and power supply fan failed

Explanation This message indicates that the power supply and power supply fan failed. [dec] is the power supply number.

Recommended Action Replace the indicated power supply and fan.

Error Message SYS-2-PS_OK: Power supply [dec] okay

Explanation This message indicates the power supply has been turned on or has returned to a proper state. [dec] is the power supply number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-2-SEM_DFSRELEASE: Timeout clearing dfs semaphore held by task [chars] pid=[dec]

Explanation This message indicates that a file system semaphore held by the read/write activity is cleared due to a timeout to avoid blocking the file system. This message also indicates that the file system semaphore is restored to normal.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-2-SUP_IMGNEEDSMOREDRAM: Image [chars] needs at least [dec] MB DRAM

Explanation This message indicates that the software image you are trying to download to the supervisor engine is too large to fit in the available DRAM. [chars] is the name of the software image and [dec] is the amount of DRAM needed for the image.

Recommended Action Contact your technical support representative.

Error Message SYS-2-SUP_IMGVEREN: Image versioning enabled. Flash synchronization will not happen

Explanation This message indicates that the software image you are trying to download to the supervisor engine will not synchronize with the existing image on the flash because image versioning is currently enabled on the switch.

Recommended Action Disable the software image versioning before you download the latest image.

Error Message SYS-2-SUP_MSFCMISMATCH: MSFC mismatch detected. MSFC on standby supervisor is disabled.

Explanation This message indicates that a different type of MSFC daughter card has been detected on the redundant supervisor engine. Both MSFC daughter cards must be the same. The MSFC daughter card on the redundant supervisor engine is disabled.

Recommended Action Replace the MSFC daughter card on the supervisor engine with the correct type.

Error Message SYS-2-SUP_NOBOOTIMG: Unable to find boot image on module [dec]

Explanation This message indicates that the system could not find the boot image in Flash memory on a module. [dec] is the module number.

Recommended Action Contact your technical support representative.

Error Message SYS-2-SUP_NOBOOTVERSION: Unable to read boot image version on module [dec]

Explanation This message indicates that a boot image was detected in Flash memory on a module, but the system was unable to read the version number. [dec] is the module number.

Recommended Action Contact your technical support representative.

Error Message SYS-2-SUP_NORUNTIMEIMG: Unable to find runtime image on module [dec]

Explanation This message indicates that the system was not able to find the runtime image on a module. [dec] is the module number.

Recommended Action Contact your technical support representative.

Error Message SYS-2-SUP_TEMPMINORFAIL: Supervisor in slot [dec] [chars] minor temperature threshold exceeded

Explanation This message indicates that the supervisor engine temperature sensor has detected a temperature greater than the minor temperature threshold. [dec] is the slot number of the supervisor engine that detected the elevated temperature, and [chars] is the name of the submodule on the supervisor engine.

Recommended Action Contact your technical support representative.

Error Message SYS-2-SUP_TEMPOK: Supervisor in slot [dec] [chars] temperature OK

Explanation This message indicates that the supervisor engine temperature has dropped below the minor temperature threshold. [dec] is the supervisor engine slot number, and [chars] is the name of the submodule on the supervisor engine.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-2-SUP_TEMPSENSORFAIL: Supervisor temperature sensors failed, please powercycle the system

Explanation This message indicates that one or more temperature sensors for the supervisor engine have failed.

Recommended Action Power down, and then power up the system to reset the sensors.

Error Message SYS-2-SUP_TEMPSENSOROK: Supervisor temperature sensors OK

Explanation This message indicates that the supervisor engine temperature sensors that were previously identified as failing are now working correctly.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-2-SUP_TEMPSHUTDOWN: System shutdown due to high temperature reading on supervisor [dec]

Explanation This message indicates that a high temperature has been detected by the temperature sensor on the supervisor engine and the system is shutting down. [dec] is the supervisor engine number.

Recommended Action Check the chassis fan assembly for disabled fans, and check for blocked airflow through the chassis.

Error Message SYS-2-SYS_TEMPMINORFAIL: Chassis minor temperature threshold exceeded

Explanation This message indicates that the chassis temperature sensor has detected a temperature greater than the minor temperature threshold.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-2-SYS_TEMPPOK: Chassis temperature OK

Explanation This message indicates that the chassis temperature has dropped below the minor temperature threshold.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-2-SYS_TEMPSENSORFAIL: Chassis temperature sensors failed, please powercycle the system

Explanation This message indicates that one or more chassis temperature sensors have failed.

Recommended Action Power down, and then power up the system to reset the sensors. If the problem persists, contact your technical support representative.

Error Message SYS-2-SYS_TEMPSENSOROK: Chassis temperature sensors OK

Explanation This message indicates that the chassis temperature sensors that were previously identified as failing are now working correctly.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-2-SYS_TEMPSHUTDOWN: System shutdown due to high temperature reading on chassis [dec]

Explanation This message indicates that the system is shutting down because of a high temperature condition. [dec] is the chassis number.

Recommended Action Check the chassis fan assembly for defective fans. Also check that the airflow paths through the chassis are not blocked.

Error Message SYS-2-TEMP_HIGHFAIL: Temp high failure

Explanation This message indicates that the internal temperature has risen above 50°C (122°F). This message applies only to the redundant supervisor engine in the switch.

Recommended Action No action is necessary. This message is provided for information only. If the temperature exceeds 70°C (158°F), the Temp Critical Failure message appears and the system automatically powers down after 5 minutes.

Error Message SYS-2-TEMP_HIGHOK: Temp high okay

Explanation This message indicates that the internal temperature has dropped below 50°C (122°F).

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-2-TEMPSENSORFAIL: Temperature sensor failure detected, device [dec], interface [dec]

Explanation This message indicates that the sensors on the chassis are not functioning due to a hardware problem that was detected by the software. The first [dec] refers to the device where the failure was detected, and the second [dec] refers to the interface on that device.

Recommended Action Power cycle the system.

Error Message SYS-2-TEMPSENSOROK: Chassis temperature sensors OK

Explanation This message indicates that the chassis temperature sensors that were previously identified as failing are now working correctly.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-2-VTT_MINORFAIL: VTT minor alarm. A VTT module failed

Explanation This message indicates that one of the three VTT modules has failed. The system can function correctly with the remaining two VTT modules.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-2-VTT_OK: VTT modules recovered from failure

Explanation This message indicates that one or more VTT modules previously identified as failing are now operating correctly.

Recommended Action Replace the bad VTT modules.

SYS-3

Error Message SYS-3-SYS_FAULTY_CF: Faulty CompactFlash found on [chars] adapter card

Explanation This message indicates that a faulty CompactFlash memory card has been found in the [chars] Melody adapter card.

Recommended Action Replace the faulty CompactFlash memory card.

Error Message SYS-3-SUP_PFC_MEMLOW: The [chars] supervisor in use requires 1GB DRAM

Explanation This message indicates that the active supervisor engine, [chars] requires 1 GB of DRAM.

Recommended Action Ensure that the memory is upgraded to 1 GB for proper functioning.

Error Message SYS-3-SUP_FILESYSDIFF: Active and standby supervisors are of different file systems. Standby supervisor will be kept in ROMmon.

Explanation This message indicates that the active supervisor engine has bootflash while the standby supervisor engine has a bootdisk, or the active supervisor engine has a bootdisk while the standby supervisor engine has a bootflash, or the standby supervisor engine has no internal file system (bootflash:/bootdisk: removed). The standby supervisor engine is kept in ROMMON after printing this message on the active console.

Recommended Action Ensure that the active and standby supervisor engines are from the same file system.

Error Message SYS-3-CFG_FILESTRINGDELERR: Unable to delete the text configuration file name on the standby supervisor

Explanation This message indicates that the text configuration filename could not be deleted on the redundant supervisor engine.

Recommended Action Contact your technical support representative.

Error Message SYS-3-CFG_FILESTRINGSYNCERR: Unable to synchronize the text configuration file name [chars] to the standby supervisor

Explanation This message indicates that the text configuration filename string could not be synchronized to the redundant supervisor engine. This situation might cause the redundant supervisor engine to come up with an incorrect configuration if it becomes the active supervisor engine after a system reset. [chars] is the text configuration filename string.

Recommended Action Contact your technical support representative.

Error Message SYS-3-CFG_FLASH_AUTOCONFIG: Failed to set auto-config options

Explanation This message indicates that the auto-config options could not be set. This error can occur at system initialization during a software upgrade when the ACL configuration must be moved out of NVRAM because there is insufficient NVRAM space for the new software.

Recommended Action Try manually setting the auto-config options after the system comes up.

Error Message SYS-3-CFG_FLASH_FILEDELSBYERR: Error deleting file [chars] from the standby supervisor

Explanation This message indicates that the system was unable to delete a configuration file from the redundant supervisor engine. [chars] is the name of the configuration file.

Recommended Action Try deleting the configuration file again.

Error Message SYS-3-CFG_FLASH_FILESTRINGSYNCERR: Failed to sync the auto-config file string to the standby supervisor

Explanation This message indicates that the auto-config file string could not be synchronized from the active to the redundant supervisor engine. If the redundant supervisor engine becomes active after a system reset, this inconsistency can cause the system to boot up with the incorrect configuration if either the start-up configuration feature was enabled or the ACL configuration was saved in Flash.

Recommended Action You can try to manually set the auto-config file string on the redundant supervisor engine.

Error Message SYS-3-CFG_FLASH_FILESYNCERR: Failed to sync file [chars] to the standby supervisor

Explanation This message indicates that the system was unable to synchronize a configuration file to the redundant supervisor engine.

Recommended Action Try synchronizing the configuration file again.

Error Message SYS-3-CFG_FLASH_RECURRENCSYNCERR: Failed to sync the auto-config recurring option to the standby supervisor

Explanation This message indicates that the auto-config recurring option could not be synchronized from the active supervisor engine to the redundant supervisor engine.

Recommended Action Try to manually set the recurring option on the redundant supervisor engine.

Error Message SYS-3-CORRUPTFREEMEM: Corrupted node in the list of free memory noticed!

Explanation This message indicates that there is an inconsistency in the free memory list. When there is a corrupted memory block in the list, this message appears and the corrupted block is removed from the list.

Recommended Action Contact your technical support representative for assistance.

Error Message SYS-3-EOBC_CHANNELHUNG: Ethernet out of band channel on module [dec] is faulty. Module has been powered down!

Explanation This message indicates that a module has been detected causing continuous collisions. The module has been shut down. [dec] is the module number.

Recommended Action Replace the faulty module.

Error Message SYS-3-EOBC_HASYNCSCPSENDFAIL: SCP channel fail ([dec])

Explanation This message indicates that a communications failure occurred between the active and redundant supervisor engines. The active supervisor engine synchronizes the configuration and other information to the redundant supervisor engine which then sends an acknowledgment back to the active supervisor engine. If either the active supervisor engine does not receive a response or the redundant supervisor engine does not receive the information, the error message is generated indicating that the EOBC channel is broken between the two supervisor engines. [dec] is the supervisor engine number.

Recommended Action Try resetting the supervisor engine that logged this message.

Error Message SYS-3-EOBC_POWERDOWN: Ethernet out of band channel fault detected. Systematically shutting down modules to identify faulty module

Explanation This message indicates that the system has detected abnormal EOBC collisions and is trying to isolate which module is causing the problem by selectively powering down the modules.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-FAB_C2_BAD_FAB_SWITCH: Fabric failed, switchover

Explanation This message indicates that a fabric failure has occurred. A fabric failure means either the switch fabric failed diagnostics or at least two modules are experiencing fabric-related problems. The message displays on the console of the active supervisor engine right before it automatically performs a switchover.

Recommended Action Following the switchover, if everything appears to be working, try to replace the formerly active supervisor engine. If fabric problems persist, check the modules reporting the fabric failures. If the fabric problems persist but are not always appearing on the same modules, the chassis may be causing the problem.

Error Message SYS-3-FAB_C2_FAB_BAD_FLOW_THROUGH: Fabric failed, go to flow through mode

Explanation This message indicates that a fabric failure has been detected on the active supervisor engine, but that the conditions currently are not appropriate for the supervisor engine to perform a switchover. In this situation, the active supervisor engine changes the switching mode to flow through. If the conditions change later, the active supervisor engine will initiate an automatic switchover to the redundant supervisor engine.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-FAB_C2_BAD_STBY_FAB: Active and standby fabric failed; no switchover, go to flow through mode

Explanation This message indicates that a fabric failure has been detected on both the active and redundant supervisor engines. A switchover from the active supervisor engine to the redundant supervisor engine has previously occurred and the currently active supervisor engine cannot perform another switchover. In this case, the switching mode is switched over to flow-through mode bypassing the switching fabric.

Recommended Action Try changing both supervisor engines. If this does not fix the problem, there might be a problem with the chassis.

Error Message SYS-3-FAB_CHNGMODE: System switching mode is being changed to [chars]

Explanation This message indicates that a change to the system mode has occurred because either the first Switch Fabric Module or a non-fabric module was installed, or the last Switch Fabric Module or non-fabric module was removed. [chars] is the switching mode.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-FAB_DENY: SWITCH FABRIC MODULE not supported in this chassis

Explanation This message indicates that a Switch Fabric Module has been detected in a chassis that does not support it.

Recommended Action Remove the Switch Fabric Module from the chassis.

Error Message SYS-3-FAB_DUALCHAN: Dual-fabric-channel card installed in single fabric slot [dec]

Explanation This message indicates that a dual-fabric channel card has been installed in a chassis slot that supports single-fabric channel only. [dec] is the slot number in which the dual-fabric channel card is installed.

Recommended Action Remove the dual-fabric channel card from the chassis slot and reinstall it in a chassis slot that supports a dual-fabric channel.

Error Message SYS-3-FAB_INCOMPMode: Module [dec] is incompatible with the current switch mode

Explanation This message indicates that a non-fabric module is installed in a system that has the **set system crossbar-fallback** command set to *none* and the system is not in flow-through mode. The non-fabric module is shut down.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-FAB_RESET_NOT_READY: Module [dec] reset, not ready to synch during HA switchover

Explanation This message appears only when using a Supervisor Engine 720. On an HA switchover, fabric channels are synchronized as quickly as possible to the fabric on the new active supervisor engine. Before the channel is synchronized, both the switching module side and the fabric side of a channel are checked to see if they are ready. This message indicates that one end of the channel is not ready, and the switching module has reset. [dec] is the module number of the switching module that reset.

Recommended Action After the switching module resets, verify that it is operating properly. If not, replace the switching module.

Error Message SYS-3-FAB_STBYSyncErr: Connection between standby switch fabric module [dec] and module [dec] failed

Explanation This message indicates that a fabric module boots in a system equipped with redundant Switch Fabric Modules and the fabric module fails to synchronize its channel to the standby Switch Fabric Module. The first [dec] is the number of the Switch Fabric Module and the second [dec] is the failing module number.

Recommended Action The system attempts to recover by resynchronizing or resetting the module. If the system cannot recover the module, try replacing the module.

Error Message SYS-3-FAB_SWDone: Fabric switchover completed

Explanation This message indicates that the standby Switch Fabric Module has finished synchronizing its channels to the fabric-enabled modules and is online.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-FAB_SWPROGRESS: Fabric switchover in progress

Explanation This message indicates that the active Switch Fabric Module is powering down and the standby Switch Fabric Module is taking over.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-FAB_SYNCERR: [chars] detected on fabric channel [dec] from module [dec]

Explanation This message indicates that a fabric channel error has been detected. [chars] is the type of channel error, the first [dec] is the channel number, and the second [dec] is the module number.

Recommended Action The system attempts to recover by resynchronizing or resetting the module. If the system cannot recover the module, try replacing the module.

Error Message SYS-3-FCI_STUCK_HMDIAGFAIL: Flow-control stuck at 0 error on module [dec]. Shutting down the module.

Explanation This message refers to the following switching modules: WS-X6148A-RJ-45, WS-X6148A-45AF, WS-X6148-FE-SFP, WS-X6148A-GE-TX, or WS-X6148A-GE-45AF. This message indicates that the flow-control signal is stuck at 0 on a switching module. Because the bus should be in constant flow control, no device is allowed to use the bus. [dec] is the module number.

Recommended Action Make sure that all modules in the switch are seated correctly by reseating the modules. If the error message appears again, reboot the switch with complete diagnostics and with only the supervisor engine and one of the switching modules installed. Wait until the system is fully online. If this error message appears again, the switching module or the supervisor engine might be faulty. This might be causing the system-wide flow-control problem. Contact your technical support representative for further assistance.

If the error message does not reappear at this point, follow this procedure:

1. Insert the next switching module and wait until the module is online.
2. Run the HM test on the switching module from the CLI by using the **diag start mod x test test ID for TestNonDisruptiveChannelLoopback** command.

The test ID can be found by entering ? when the test ID is requested. This action will list the switching modules test table of contents. This test includes all ports at once.

3. If the non-disruptive loopback test shows the FCI_STUCK_HMDIAGFAIL error message, the newly inserted module is either not seated correctly or is faulty. Remove the module and verify that the HM test is passing now by running the HM test from CLI again using the **diag start mod x test test ID for TestNonDisruptiveChannelLoopback** command.
4. Contact your technical support representative for further assistance. If the error message does not reappear, proceed to install the next switching module and so forth.

Error Message SYS-3-FIFOBUS_AUTOSHUT: FIFO bus overflow error detected [dec] times in less than [dec] mins. Shutting down module [dec].

Explanation This message indicates that the FIFO threshold value of a switching module is lowered but the switching module still incurs overflow errors a specified number of times in less than ten minutes. The switching module is powered down. The first [dec] is the number of times the error is detected, the second [dec] is the number of minutes, and the third [dec] is the switching module number.

Recommended Action Manually power up the module if required. If the problem persists, contact your technical support representative.

Error Message SYS-3-FPOE_MEMALLOCFAIL: Failed to allocate memory in fpoe ([dec])

Explanation This message indicates that the FPOE configurations on the modules will fail because there is no memory available in the system. Other applications running on the switch may also experience memory problems. [dec] is the location within the code where the error took place.

Recommended Action Reset the supervisor engine. If the problem persists, contact your technical support representative.

Error Message SYS-3-LINK_INERRORS: Port [dec]/[dec] inErrors disabled

Explanation This message indicates that a port's inErrors counter has exceeded the high threshold, which causes the port to become error disabled. [dec]/[dec] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-LINK_RXCRCERR: Port [dec]/[dec] rxcrcErrors disabled

Explanation This message indicates that a port became error disabled after receiving CRC error packets and alignment error packets that exceed the configured high threshold and sampling requirements. The first [dec] is the module number, and the second [dec] is the port number.

Recommended Action Enable the port or set up an error disable timer.

Error Message SYS-3-LINK_TXCRCERR: Port [dec]/[dec] txcrcErrors disabled

Explanation This message indicates that a port became error disabled after transmitting CRC error packets that exceed the configured high threshold and sampling requirements. The first [dec] is the module number, and the second [dec] is the port number.

Recommended Action Enable the port or set up an error disable timer.

Error Message SYS-3-LLC_IPC2REGFAIL: Failed to register to Ibipc2

Explanation This message indicates that the supervisor engine cannot communicate with the module for Layer 2 protocol packets.

Recommended Action Contact your technical support representative.

Error Message SYS-3-LLC_REGTBLEXIST: Entry exists in LLC registration table.

Explanation This is a debug message for Cisco development purposes.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-LLC_REGTBLFULL: Registration table full

Explanation This message indicates that a Layer 2 protocol cannot be registered. The supervisor engine is unable to receive packets from this protocol.

Recommended Action Contact your technical support representative.

Error Message SYS-3-LLC_REGTBLNOTEXIST: Entry not exists in LLC registration table.

Explanation This is a debug message for Cisco development purposes.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-LLC_SCPSTATNOTOK: Send scp message to module [dec] status [dec]

Explanation This is a debug message for Cisco development purposes.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-LLC_SENDSCPFALL: Send scp message to module [dec] failed

Explanation This is a debug message for Cisco development purposes.

Recommended Action No action is necessary. This message is provided for information only.



Note

The next message appears as four lines.

Error Message

```
SYS-3-MOD_CFGMISMATCH1: Module [dec] configuration mismatch [chars]
SYS-3-MOD_CFGMISMATCH2: *Config:[chars]
SYS-3-MOD_CFGMISMATCH3: *Actual:[chars]
SYS-3-MOD_CFGMISMATCH4: Insert config type module or do a 'clear config [dec]'
```

Explanation These messages appear when a module is inserted into a slot that has been configured for another module type. Module [dec] is the module number; [chars] is either an empty field or disabled ports; Config [chars] is the description of the module configured in NVRAM; Actual [chars] is the description of the module inserted in the slot; and clear config [dec] is the number of the module on which you want to clear the configuration.

Recommended Action Insert a module that matches the slot configuration, or enter the **clear config** [*mod/port*] command to clear the slot. If this message reappears, contact your technical support representative.

Error Message SYS-3-MOD_DIAG: Module [dec] is in offline diagnostic mode

Explanation This message indicates that the module is in offline diagnostics mode. [dec] is the module number.

Recommended Action This message is provided for information only but might indicate that a problem exists with the diagnostic testing. If this is the case, contact your technical support representative.

Error Message SYS-3-MOD_DMPEXCEPTION: DMP exception occurred on module [dec]

Explanation This message indicates that a Data Movement Processor (DMP) exception has occurred on the FDDI module. [dec] is the module number.

Recommended Action Contact your technical support representative.

Error Message SYS-3-MOD_DNLDWAIT: Module [dec] waiting for download

Explanation This message indicates that the module is waiting for download. [dec] is the module number.

Recommended Action This message is provided for information only, but it might indicate that a problem exists with the download task. If this is the case, contact your technical support representative.

Error Message SYS-3-MOD_FAIL: Module [dec] failed to come online

Explanation This message indicates that the module failed to come online. [dec] is the module number.

Recommended Action No action is necessary. This message is provided for information only.

**Note**

The next message appears as four lines.

Error Message

SYS-3-MOD_FAILREASON: Module [dec] failed due to [chars]
[chars]
[chars]
[chars]

Explanation This message indicates that the module has failed due to a specified error. [dec] is the module number, and [chars] is one of the following: CPU Initialization Error, Memory Test Failed, Boot Checksum Verification Failed, SPROM Checksum Verification Failed, EOBC Loopback Test Failed, LTL-A Error, Flash Erase/Write Error, Pinnacle CBL Error, Pinnacle Packet Buffer Error, Pinnacle TLB Error, or Unknown or Undocumented Error. The first [chars] line is “Ports disabled”

if the module is non-ATM Route Switch Module (RSM) (non-Cisco IOS). The second [chars] line is a description of the module type configured in NVRAM. The third [chars] line is a description of the module type inserted in the slot.

Recommended Action Reset the module. If this message reappears, insert a new module. If this message appears again, contact your technical support representative.

Error Message SYS-3-MOD_FCPEXCEPTION: FCP exception occurred on module [dec]

Explanation This message indicates that an exception has occurred in the FDDI Control Processor (FCP). [dec] is the module number.

Recommended Action Contact your technical support representative.

Error Message SYS-3-MOD_GSGINTLGPORTFAIL: Intelligent [dec] backplane port [dec] link down

Explanation This message indicates that the gigabit backplane port link is down. The first [dec] is the module and the second [dec] is the port number.

Recommended Action If the problem persists, contact your technical support representative.

Error Message SYS-3-MOD_ILCGSGNOREPLY: Exceeded max # of retries sending 0x[hex] msg to ILC module [dec]

Explanation This message indicates that the SCP message exchange between the NMP and the module exceeded the maximum number of retries. 0x[hex] is the opcode in hexadecimal, and [dec] is the module number.

Recommended Action Verify that the module is online. If the problem persists, contact your technical support representative.

Error Message SYS-3-MOD_ILCGSGUNKNOWNOPCODE: Unknown SCP opcode 0x[hex] sent from ILC module [dec]

Explanation This message indicates that a module has sent an unrecognizable opcode. 0x[hex] is the hexadecimal opcode, and [dec] is the module number.

Recommended Action If the problem persists, contact your technical support representative.

Error Message SYS-3-MOD_PORTINTFINSYNC: Port Interface in sync for Module [dec]

Explanation This message indicates that the module booting up has synchronized the onboard ASICs that handle the transfer of packets between the backplane and the network ports. [dec] is the module number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-MOD_PORTINTFOUTOFSYNC: Port Interface not in sync for Module [dec]

Explanation This message indicates that the onboard ASICs that handle the transfer of packets between the backplane and the network ports are not in sync. [dec] is the module number.

Recommended Action Try reseating the module and tightening down the captive installation screws.

Error Message SYS-3-MOD_PORTINTFPOWERDOWN: Port Interface sync not recovered for module [dec]. Powering it down

Explanation This message indicates that the module port synchronization process could not recover and that the module is powering down. [dec] is the specified module.

Recommended Action Try reseating the module and tightening down the captive installation screws.

Error Message SYS-3-MOD_PWRFAIL: Module [dec] failed to power up

Explanation This message indicates that a module did not power up. [dec] is the number of the module that did not power up.

Recommended Action Try reseating the module and tightening down the captive installation screws.

Error Message SYS-3-MOD_RAPIDBOOTERROR: Rapid boot message received when expecting normal boot. Resetting module [dec]

Explanation This message indicates that a rapid boot request has been received without an SRAM failure detected on the module. The module should have performed a normal boot. [dec] is the module number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-MOD_STATUS: Excessive flow control found on module [dec] (detected by module [dec], fabric channel [dec])

Explanation This message indicates that a fabric ASIC on a Crux or Supervisor Engine 720 has reported a TIMEOUT error. This situation occurs when the supervisor engine is not getting any information on one of its input ports. A brief outage occurs as the fabric channel is resynchronized. Traffic should resume when the channel synchronization completes. The first [dec] is the module number where the fabric resides, which is either a Crux or Supervisor Engine 720. The second [dec] is the module that detects the error, and the third [dec] is the fabric channel number that is affected.

Recommended Action If this error message persistently reappears on a fabric channel to a particular module, it may indicate faulty fabric hardware on the switching module or possibly the fabric itself. Replace the switching module. If the error message still appears, replace the supervisor engine.

Error Message SYS-3-MOD_TRCP EXCEPTION: TRCP exception occurred on module [dec]

Explanation This message indicates that a Token Ring Control Processor (TRCP) exception has occurred on a FDDI module. [dec] is the module number.

Recommended Action Contact your technical support representative.

Error Message SYS-3-MODONLINE_LCPRUNRDY: LCPRUNRDY message received after module [dec] online...resetting module

Explanation This is a registration message that appears when the switching module is coming back online. If this message appears after the module is online, an error has occurred. [dec] is the module number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-MODULE_FAULTY: Module [dec] is suspected to be faulty. Power Down the module.

Explanation This message indicates that the pinnacle of the specified module is sending corrupt packets. [dec] is the module number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-SUP_MODNONSBY: Module [dec] is present but not in standby mode

Explanation This message indicates that a secondary supervisor engine has been detected, but this supervisor engine has not been recognized as the standby supervisor engine. This situation might occur if the supervisor engine has some unidentifiable failure or if the supervisor engine is stuck in ROMMON mode. [dec] is the module number of the standby supervisor engine.

Recommended Action Reset the module to determine if the standby supervisor engine reboots properly. If the problem persists, contact your technical support representative.

Error Message SYS-3-NOLCPBOOTRDY: No LCPBOOTRDY message received after RxREGISTRATION... resetting module [dec]

Explanation This message indicates that a module that was in the process of performing a rapid reboot was removed and installed in a system that does not support rapid booting. The module rapid boot states do not properly clear. In this case, LCPRUNDDY is received after RxREGISTRATION and removes LCPBOOTRDY from the boot sequence. [dec] is the module number where the problem occurred.

Recommended Action Reset the module.

Error Message SYS-3-P2_LogBrBadGbic: Port [chars]: Gbic's seeprom is bad, try reinserting: vendor: [chars], p/n: [chars], s/n: [chars]

Explanation This message indicates that a GBIC with a serial EEPROM has been detected and that an EEPROM contents read operation succeeded but the contents are not valid. The port [chars] is the location of the defective GBIC; the remaining three [chars] fields contain information from the read operation including the GBIC vendor, the GBIC part number, and the GBIC serial number.

Recommended Action Reseat the GBIC in the port. If this action does not work, replace the GBIC.

Error Message SYS-3-P2_LogBrGbicSeepromReadFailed: Failed to read gbic serial eeprom on port [chars], try reinserting

Explanation This message indicates that a GBIC has been detected in the port identified by the specified field, but a serial EEPROM read operation failed. You need to read the EEPROM to determine the type of GBIC installed.

Recommended Action Reseat the GBIC. If this action does not work, replace the GBIC.

Error Message SYS-3-P2_LogBrSeepromReadFailedAfterWrite: Wrote module's serial eeprom, but it read back incorrectly

Explanation This message indicates that after writing to a module serial EEPROM in response to a CLI request, the wrong data was read back from the serial EEPROM.

Recommended Action Try reseating the module. If that action does not work, contact your technical support representative.

Error Message SYS-3-P2_LogEbmCantAllocateEbmPort: No EbmPort memory to allocate EbmPort for PimPort [chars]

Explanation This message indicates that there is not sufficient memory to allocate space for information associated with the port. [chars] is the port number.

Recommended Action Contact your technical support representative.

Error Message SYS-3-P2_LogEbmCantAllocateIeNode: No interposition table memory to add entry for addr [ether]

Explanation This message indicates that there is not sufficient memory to allocate space for the internal data structure. [ether] is the host address.

Recommended Action Contact your technical support representative.

Error Message SYS-3-P2_LogEbmCantAllocatePortHostEntry: No port host table memory to add entry for addr [ether]

Explanation This message indicates that there is not sufficient memory to allocate space for the internal data structure. [ether] is the address that cannot be added to the host table.

Recommended Action Contact your technical support representative.

Error Message SYS-3-P2_LogEbmCantAllocateVlanGroupEntry: No vlan group table memory to add entry for addr [ether]

Explanation This message indicates that there is not sufficient memory to support additional group entries. [ether] is the address that cannot be added to the group table.

Recommended Action Contact your technical support representative.

Error Message SYS-3-P2_LogEbmCantAllocateVlanHostEntry: No vlan host table memory to add entry for addr [ether]

Explanation This message indicates that there is not sufficient memory to support additional host addresses. [ether] is the host address that could be entered into the table.

Recommended Action Contact your technical support representative.

Error Message SYS-3-P2_LogGalBadGbic: Port [chars]: Gbic's seeprom is bad, try reinserting: vendor: [chars], p/n: [chars], s/n: [chars]

Explanation This message indicates that a GBIC with a serial EEPROM has been detected in the port. port [chars] is the port number. A read of the serial EEPROM contents was successful, but the contents were not valid. The vendor [chars], part number [chars] and the serial number [chars] contain information read from the serial EEPROM.

Recommended Action Contact your technical support representative.

Error Message SYS-3-P2_LogGalBadMacRangeInSprom: Module [dec] serial eeprom contains [dec] mac addresses, but needs [dec]

Explanation This message indicates that the number of MAC addresses contained in the serial EEPROM does not correspond with the number of ports on the module front panel. The first [dec] is the module number, the second [dec] is the number of MAC addresses read from the serial EEPROM, and the third [dec] is the correct number of MAC addresses needed.

Recommended Action Contact your technical support representative.

Error Message SYS-3-P2_LogGalDaughterCardSeepromReadFailed: Failed to read the serial eeprom on module [dec], daughter card [dec]

Explanation This message indicates that multiple attempts to read the serial EEPROM on a module daughter card have failed. Because the read operation has failed, the daughter card remains offline. Module [dec] is the module number, and the daughter [dec] is the daughter card number.

Recommended Action Remove and reinstall the daughter card on the module.

Error Message SYS-3-P2_LogGalGbicSeepromReadFailed: Failed to read gbic serial eeprom on port [chars], try reinserting

Explanation This message indicates that a GBIC with a serial EEPROM has been detected, but reading the EEPROM has failed. The port [chars] field indicates the port the GBIC is installed in.

Recommended Action Remove and reinstall the GBIC.

Error Message SYS-3-P2_LogGalIlcS2wCommunicationError: Communication with ILC over S2W failed, reason [dec]

Explanation This message indicates that the logical configuration protocol between the supervisor engine and an intelligent module processor failed due to a I2C failure. [dec] is the message number.

Recommended Action Contact your technical support representative.

Error Message SYS-3-P2_LogGalLinecardSeepromReadFailed: Failed to read module [dec] serial eeprom, try reinserting module

Explanation This message indicates that the serial EEPROM read operation on the module failed. [dec] is the module number.

Recommended Action Reseat the module in the slot.

Error Message SYS-3-P2_LogGalLinecardSeepromWriteFailed: Failed to write module [dec] serial eeprom

Explanation This message indicates that the serial EEPROM write operation on the module failed. [dec] is the module number.

Recommended Action Reseat the module in the slot.

Error Message SYS-3-P2_LogGalUnknownLinecard: Unknown module (fru minor type [dec]) in slot [dec]

Explanation This message indicates that an unknown type of module has been detected in the system. The first [dec] is the FRU minor type number, and the second [dec] is the slot number that the unknown module occupies.

Recommended Action A system software upgrade might be required for this module. Contact your technical service representative.

Error Message SYS-3-P4_ERROR: SFP/GBIC integrity check on port [dec]/[dec] failed: bad crc or bad key

Explanation This message indicates that the SFP or the GBIC integrity check failed because of a bad CRC value or a bad key value. [dec]/[dec] is the module number/port number where the failure occurred.

Recommended Action Check the port for an unsupported or unapproved GBIC or SFP.

Error Message SYS-3-PKTBUFBAD: Port [dec]/[dec] failed packet buffer test. This port [chars] automatically disabled for future use.

Explanation This message indicates that the packet buffer test detected a corrupted packet buffer on a module port. [dec]/[dec] is the module number/port number where the test failed, and [chars] is faulty.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-PKTBUFFERFAIL_ERRDIS: Packet buffer failure detected. Err-disabling port [dec]/[dec]

Explanation This message indicates that the default error-detection packet buffer setting is error disabling the port. Whenever a parity failure is detected on the port, ASIC ports are error disabled. [dec]/[dec] is the module number/port number of the error-disabled port.

Recommended Action Power cycle of the module is required to fully recover all ports that have encountered an SRAM failure. Enter the **set errordetection packet-buffer power-cycle** command to power cycle the module if it is acceptable that an outage in your network services lasts 30 to 40 seconds. If this outage is not acceptable, use the rapid boot feature to reduce the time of the outage to less than 10 seconds. To fully recover from the corrupted buffer condition, enter the **reset module mod** command.

Error Message SYS-3-PORT_ALIGNMENT_ERROR:Port [dec]/[chars] detected [dec] alignment errors in last 30 minutes

Explanation This message indicates that a port has failed to pass the FCS check. The first [dec] is the module number, [chars] is the port number, and the second [dec] is the number of alignment errors encountered in the last 30 minutes. The alignment errors increment when the MAC service returns alignmentError status to the LLC (or another MAC user). Alignment errors often occur due to MAC layer packet formation problems, cabling problems that cause corrupted or lost data, and packets that pass through more than two cascaded multiport transceivers. Alignment errors are usually corrected by the software and do not cause a crash. However, correcting alignment errors can consume processor resources. If there are continuous alignment errors, the switch can spend most of its time fixing them, which would increase the CPU utilization. These errors are corrected at interrupt.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-PORT_ALIGNMENT_ERROR: Port [dec]/[dec] detected [dec] alignment error(s) in last 30 minutes

Explanation This message indicates that alignment errors are the frames that do not end with an even number of octets and have a bad CRC. These error messages are typically caused by physical layer issues or a speed/duplex mismatch with the remote device. The first [dec] represents the module number. The second [dec] represents the port number in that module, and the third [dec] represents the number of frames with alignment errors.

Recommended Action Set the speed and duplex settings to **auto** on both devices. If the negotiation fails, hard code the speed and duplex values at both ends of the link.

Error Message SYS-3-PORT_BADPORT: Bad port [dec]/[dec] detected, inline power is turned off

Explanation This message indicates that a fault in a module has been detected by the system and the inline power to that port has been turned off. [dec]/[dec] is the module number/port number.

Recommended Action Contact your technical support representative.

Error Message SYS-3-PORT_COLL: Port [dec]\[dec] [chars] collision ([dec]) detected

Explanation This message indicates that you are logging excessive or late collisions on the port. [dec]/[dec] is the module number/port number, [chars] is the error type (late or excessive), and [dec] is the collision counter value.

Recommended Action Check for and correct the duplex mismatch on the port.

Error Message SYS-3-PORT_COLLDIS: Port [dec]\[dec] disabled due to collision

Explanation This message indicates that you have exceeded the threshold values for late or excessive collisions on a port. There are four sets of criteria for disabling the port: The excessive collisions per the 500 milliseconds value is greater than 11 and the page counter value is greater than 335; the excessive collisions per the 500 milliseconds value is greater than 11, the single collision value is less than 3, and the multiple collision value is less than 3; the Abort Late collision per the 500 milliseconds value is greater than 5; and the late collision per the 500 milliseconds value is greater than 11. If any of these four criteria are met, the port is disabled. [dec]\[dec] is the module number/port number for the port.

Recommended Action Check for a duplex mismatch, bad cable, or incorrect cable length, and then reenables the port.

Error Message SYS-3-PORT_CRC: Port [dec]/[dec] detected [dec]/[dec] CRC error(s) in last 30 minutes

Explanation This message indicates that a port has received a CRC error. [dec]/[dec] is the module number and port number. The third [dec] is the number of CRC errors encountered in the last 30 minutes.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-PORT_DEVICENOLINK: Device on port [dec]/[dec] powered but no link up

Explanation This message indicates that a device powered by a port using inline power does not give the expected link-up indication within the allotted amount of time. [dec]/[dec] is the module number/port number. The power to the port is turned off.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-PORT_DOT3_ALIGNMENT_ERROR: Port [dec]/[dec] detected [dec] alignment error(s) in last 30 minutes

Explanation This message indicates the total number of packets received with a length of 64 to 1,518 octets. These octets were not an integral number of octets in length, and the port has failed to pass the FCS check. [dec]/[dec] is the module number and port number. The third [dec] is the number of alignment errors encountered in the last 30 minutes. This number is incremented when the alignmentError status is returned by the MAC service to the LLC (or other MAC user).

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-PORT_ERR: Port [dec]/[dec] [chars] ([dec])

Explanation This message indicates that a port error has been detected. [dec]/[dec] is the module number/port number, [chars] is the port counter name, and ([dec]) is the counter value.

Recommended Action Contact your technical support representative.

Error Message SYS-3-PORT_FCS_ERROR:Port [dec]/[chars] detected [dec] FCS errors in last 30 minutes

Explanation This message indicates that a port has experienced some FCS errors but no framing errors. The first [dec] is the module number, [chars] is the port number, and the second [dec] is the number of FCS errors encountered in the last 30 minutes.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-PORT_FCS_ERROR: Port [dec]/[dec] detected [dec] FCS error(s) in last 30 minutes

Explanation FCS errors are the frames with valid frame sizes but with bad CRCs. These error messages are typically caused by physical layer issues or a speed/duplex mismatch with the remote device. The first [dec] represents the module number, the second [dec] represents the port number in that module, and the third [dec] represents the number of frames with FCS errors.

Recommended Action Set the speed and duplex settings **auto** on both devices. If the negotiation fails, hard code the speed and duplex values at both ends of the link.

Error Message SYS-3-PORT_GBICBADEEPROM: Port [dec]/[dec] bad gbic eeprom checksum

Explanation This message indicates that the system has detected a bad checksum from a GBIC installed in a module. [dec]/[dec] is the module number/port number.

Error Message SYS-3-PORT_GBICFAILED: Port [dec]/[dec] gbic cannot be enabled/disabled

Explanation This message indicates that the GBIC installed in a module is not responding. [dec]/[dec] is the module number/port number where the faulty GBIC is located.

Recommended Action Replace the GBIC.

Error Message SYS-3-PORT_GBICNOTAPPROVED: Port [dec]/[dec] gbic not approved

Explanation This message indicates that the system does not support the GBIC installed in the module port. [dec]/[dec] is the module number/port number.

Recommended Action Remove the unsupported GBIC from the module and replace it with a supported GBIC.

Error Message SYS-3-PORT_GBICNOTSUPP: Port [dec]/[dec] GBIC is unsupported

Explanation This message indicates that an installed GBIC could not be identified because either the GBIC serial EPROM is faulty or the GBIC is an unsupported version. [dec]/[dec] is the module number/port number of the faulty GBIC.

Recommended Action If you are using a Cisco-supported GBIC, contact your technical support representative. Otherwise, either replace the unsupported GBIC with a supported GBIC or disregard the message.

Error Message SYS-3-PORT_IN_ERRORS: Port [dec]/[chars] detected [dec] input packet(s) contained errors in last 30 minutes

Explanation This message indicates that a port has experienced an input packet error. The first [dec] is the module number, [chars] is the port number, and the second [dec] is the number of input errors encountered in the last 30 minutes.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-PORT_IN_ERRORS: Port [dec]/[dec] detected [dec] input error(s) in last 30 minutes

Explanation This message indicates input error frames with No Buffer, Runts, Giants, Alignment errors, Bad CRC, Overrun, Ignored, and Abort errors. These errors are typically caused by physical layer issues or a speed/duplex mismatch with the remote device. The first [dec] represents the module number, the second [dec] represents the port number in that module, and the third [dec] represents the number of frames with input errors.

Recommended Action Set the speed and duplex settings to **auto** on both devices. If the negotiation fails, hard code the speed and duplex values at both ends of the link.

Error Message SYS-3-PORT_IN_UNKNOWN_PROTOS: Port [dec]/[dec] detected [dec] unknown protocol error(s) in last 30 minutes

Explanation This message indicates that a port has encountered inbound packets with unknown protocols. [dec]/[dec] is the module number and port number. The third [dec] is the number of unknown protocols encountered in the last 30 minutes.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-PORT_INVLDLIMITMODE: VDB changed, unsupported limit mode for ports on mod[dec], may cause power failure. Should be set to default mode

Explanation When the WS-F6K-48AF module is replaced with a different module, this message indicates that the configuration is incorrect. The limit inline power mode is supported only on switching modules with WS-F6K-48AF daughter modules. [dec] is the module with ports configured in limit mode.

Recommended Action Enter the **clear config** *module number* command.

Error Message SYS-3-PORT_INVLDPWRCONS: Device on port [dec]/[dec] is reporting invalid power consumption, inline power will be turned off.

Explanation This message indicates that the TLVs from an inline phone are reporting an incorrect power consumption value. [dec]/[dec] is the module number/port number for the faulty IP phone.

Recommended Action Disconnect the faulty IP phone and replace it.

Error Message SYS-3-PORT_MIIBAD: Bad MII status Port [dec]/[dec], [chars]

Explanation This message indicates that the Media Independent Interface (MII) for the module is bad. The reason might be either a communications failure between the LCP and the MCP or a diagnostics failure. [dec]/[dec] is the module number/port number, and [chars] is the error message.

Recommended Action Contact your technical support representative.

Error Message SYS-3-PORT_NO64POLL1: SWPoll64bCnt task exits: failed to malloc scp queue buffers

Explanation This message indicates that your switch may be out of memory and that the 64-bit counters have not been polled. You may need to increase the DRAM size.

Recommended Action Contact your technical support representative.

Error Message SYS-3-PORT_NO64POLL2: Memory allocation fail: no 64 bit counters for module [dec] will be available

Explanation This message indicates that your switch may be out of memory and that the 64-bit counters have not been polled. [dec] is the module number. You may need to increase the DRAM size.

Recommended Action Contact your technical support representative.

Error Message SYS-3-PORT_NOPOWERAVAIL: Device on port [dec]/[dec] will remain unpowered

Explanation This message indicates that there is not enough system power available to power up a port. [dec]/[dec] is the module number/port number. The port remains unpowered until enough power becomes available to power up the port.

Recommended Action No action is necessary. This message is provided for information only. To stop the messages, disable CDP on the port.

Error Message SYS-3-PORT_OUT_DISCARD: Port [dec]/[dec] detected [dec] output discard error(s) in last 30 minutes

Explanation This message indicates that the switch is discarding a number of valid outbound packets because either you are sending more traffic than the port can handle or the speed of the network segment is low. This situation could occur when you have multiple high-speed ports that flow to a single (usually slower) port. [dec]/[dec] is the module number/port number of the port and the other [dec] is the number of discarded packets.

Recommended Action Move the device hanging off this port to a faster media. To stop the message, enter the **set errordetection portcounters disable** command.

Error Message SYS-3-PORT_OUT_DISCARD:Port [mod]/[port] detected [dec] output packet(s) discard errors in last 30 minutes

Explanation This message indicates that the switch has chosen a number of outbound packets to be discarded even though no errors have been detected. A large number of deferred frames, or Out-Discard (also referred to as Out-Lost on some platforms), indicates the output buffers of the switch have filled up and the switch had to drop these packets. This situation could occur when the traffic on the network segment is running in duplex mode and/or at a low speed, or too much traffic is going through the port. Use the **show mac** command for the module and port or the entire module to look at Out-Discards. In some scenarios, you might see these messages on a destination port of a Switched Port Analyzer (SPAN) session, which can be a normal behavior.

Recommended Action Check if the segment is running at a low speed and/or duplex mode. Reseat the module mentioned in the error message and check if the errors are incrementing. If the errors increment, contact your technical representative.

Error Message SYS-3-PORT_OUT_ERRORS: Port [dec]/[dec] detected [dec] output error(s) in last 30 minutes

Explanation This message indicates that a port has received output errors. [dec]/[dec] is the module number and port number. The third [dec] is the number of octets transmitted from the interface in the last 30 minutes.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-PORT_RUNTS: Port [dec]/[dec] detected [dec] runt(s) in last 30 minutes

Explanation This message indicates that the switch has detected a runt frame (a frame that is less than 64 bytes). These errors are typically caused by physical layer issues or a speed/duplex mode mismatch with the remote device. The first [dec] represents the module number, the second [dec] represents the port number in that module, and the third [dec] represents the number of runt frames.

Recommended Action Set the speed and duplex mode settings to **auto** on both devices. If the negotiation fails, then hard code the speed and duplex values at both ends of the link.

Error Message SYS-3-PORT_RX_BADCODE:Port [dec]/[chars] detected [dec] bad code errors in last 30 minutes

Explanation This message indicates that a port has been affected with an unknown protocol error. The first [dec] is the module number, [chars] is the port number, and the second [dec] is the number of inbound packets with unknown protocols encountered in the last 30 minutes.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-PORT_RX_ERROR: Port [dec]/[dec] detected [dec] receive error(s) in last 30 minutes

Explanation This message indicates that the receive buffer is becoming full. The error number is incremented when the internal FIFO goes into the buffer overflows. The number should be zero unless there is heavy traffic on the backplane. This may result in some lost counts. [dec]/[dec] is the module number and port number. The third [dec] is the number of errors received in the last 30 minutes.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-PORT_RX_FIFOFULL: Port [dec]/[dec] detected [dec] rxfifofull error(s) in last 30 minutes

Explanation This message indicates that the FIFO has a buffer overflow. [dec]/[dec] is the module number and port number. The third [dec] is the number of FIFOs that have filled up in the last 30 minutes.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-PORT_SSUPFAIL: Failed to bring up ports on standby supervisor

Explanation This message indicates either the Serial Link Protocol (SLP) channel between the active and redundant supervisor engines is broken or that one or more ports on the redundant supervisor engine are broken.

Recommended Action Reset the redundant supervisor engine. If that does not work, reset the system or contact your technical support representative.

Error Message SYS-3-PORT_TX_ERROR: Port [dec]/[dec] detected [dec] FCS error(s) in last 30 minutes

Explanation This message indicates that the internal transmit buffer is full. This is a normal condition in a heavily loaded network and with the SAINT1. [dec]/[dec] is the module number and port number. The third [dec] is the number of transmit errors encountered in the last 30 minutes.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-PORT_UNDER_SIZE_ERROR: Port [dec]/[dec] detected [dec] undersize error(s) in last 30 minutes

Explanation This message indicates that packets received were less than 64 octets long and have a good frame check sequence (FCS). [dec]/[dec] is the module number and port number. The third [dec] is the number of undersized packet errors encountered in the last 30 minutes.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-PORT_WRNGLTVS: Device on port [dec]/[dec] is transmitting both old and new TLVs, inline power will be turned off

Explanation This message indicates that the IP phone connected to a port is sometimes sending both old and new type/length/value (TLVs), and is sometimes sending only old TLVs in a CDP message. The inline power is turned off to the IP phone. [dec]/[dec] is the module number and port number where the IP phone is connected.

Recommended Action Disconnect the faulty IP phone and replace it.

Error Message SYS-3-PKTBUFFERFAIL_SUP_PWRCYCLE: Packet buffer failure detected on module [dec]. Shutting down supervisor.

Explanation This message indicates that packet buffer errors were detected on the supervisor engine. The supervisor engine will be shut down and the ROM-based (ROMMON) monitor will fail. [dec] is the module number.

Recommended Action Power cycle the supervisor engine.

Error Message SYS-3-PRF_FLASH_FILEDELSBYERR: Error deleting profile file [chars] from the standby supervisor

Explanation This message indicates that the profile file is not yet deleted from the standby supervisor engine. [chars] is the profile filename.

Recommended Action Enter the **clear system profile** command on the active supervisor engine after the system is operational.

Error Message SYS-3-PRF_FLASH_FILESTRINGSYNCERR: Failed to sync the profile file string to the standby supervisor

Explanation This message indicates that the profile file configuration is not cleared from the standby supervisor engine. This event can occur if the standby supervisor engine is not ready. Even if the profile file is not configured, the active supervisor engine tries to clear this feature on the standby supervisor engine because a new standby supervisor engine might have been inserted, and it might have the profile file configured.

Recommended Action Enter the **clear system profile** command on the active supervisor engine after the system is operational.

Error Message SYS-3-PRF_FLASH_FILESYNCERR: Failed to sync profile file [chars] to the standby supervisor

Explanation This message indicates that the profile file configuration is not synchronized to the standby supervisor engine. This event can occur if the standby supervisor engine is not ready. [chars] is the profile filename.

Recommended Action Enter the **set system profile filename** command on the active supervisor engine after the system is operational. This action will ensure that both the active and standby supervisor engines have the same configuration profiles.

Error Message SYS-3-SEM_HOLDANY: Task [chars] holds too many semaphores

Explanation This message indicates that a task is holding too many semaphores and provides details about the task that caused the error. [chars] is the name of the task.

Recommended Action The message provides details about the task that caused this error. EthChnlConfig and L3Aging are two tasks that tend to hold many semaphores. For EthChnlConfig, remove the EtherChannel and then reconfigure it. For L3Aging, try clearing the multicast address entries.

Error Message SYS-3-SEM_IDBAD: Invalid sem_id:[hex] ([chars],[chars])

Explanation This message indicates an invalid semaphore is being requested by the function of a specified task. [hex] is the semaphore ID value, the first [chars] is the task name, and the second [chars] is the function name.

Recommended Action The system has an internal error if this message is shown. Contact your technical support representative.

Error Message SYS-3-SEM_KERNELWAIT: Kernel wait for semaphore [chars]

Explanation This message indicates that the kernel task requests a semaphore. [chars] is the semaphore name.

Recommended Action This is an internal error. Contact your technical support representative.

Error Message SYS-3-SEM_MAGICNUMBAD: Invalid magic number:[hex] ([chars],[chars])

Explanation This message indicates the magic number for a semaphore being requested by the function of a specified task is invalid. [hex] is the magic number, the first [chars] is the task name, and the second [chars] is the function name.

Recommended Action The system has an internal error if this message is shown. Contact your technical support representative.

Error Message SYS-3-SEM_NOPID: Dequeued pid([dec]) not found

Explanation This message indicates the task being removed from a semaphore waiting list does not exist. [dec] is the task ID number.

Recommended Action The system has an internal error if this message is shown. Contact your technical support representative.

Error Message SYS-3-SEM_NOWAIT: No waiting task to dequeue

Explanation This message indicates the semaphore could not find its waiting list while a task is to be removed from it.

Recommended Action The system has an internal error if this message is shown. Contact your technical support representative.

Error Message SYS-3-SEM_REQBAD: Task [chars] waits for the same semaphore [chars]

Explanation This message indicates that a task was trying to request the same semaphore it already holds. [chars] is the name of the task, and semaphore [chars] is the name of the semaphore.

Recommended Action This is an internal error. Contact your technical support representative.

Error Message SYS-3-SPAN_MEMALLOCFAIL: Failed to allocate memory in span [dec]

Explanation This message indicates that the memory allocation failed in the SPAN code. [dec] specifies a location marker in the code.

Recommended Action This is an internal error. Contact your technical support representative.

Error Message SYS-3-SPAN_SRCNOTSUPPORTED: Port [dec]/[dec] not supported as SPAN source

Explanation This message indicates that the port indicated does not support the SPAN function. [dec]/[dec] is the module number/port number.

Recommended Action Use the **show port capabilities** command to check whether or not the port can support the SPAN source. Choose the appropriate port for the SPAN source.

Error Message SYS-3-SUP_ACONNFAL: [chars] unable to connect with standby

Explanation This message indicates [chars] is unable to establish a TCP/IP connection with the redundant supervisor engine. [chars] is the task name on the active supervisor engine.

Recommended Action Perform a system reset. If this message reappears, contact your technical support representative.

Error Message SYS-3-SUP_AIMGCPYFAIL: [chars] unable to copy flash into DRAM

Explanation This message indicates that the task is unable to uncompress the Flash code and download into DRAM. [chars] is the task name.

Recommended Action This condition is possibly due to a bad or corrupted Flash file; contact your technical support representative.

Error Message SYS-3-SUP_AIMGDIFF: The nvram update tasks will not be running

Explanation This message indicates the NVRAM update task is not running.

Recommended Action Perform a system reset. If the message reappears, contact your technical support representative.

Error Message SYS-3-SUP_AIMGDIFF1: Module [dec] runtime image differs from flash image

Explanation This message indicates that the run-time image of the module differs from the Flash image. [dec] is the module number. This message indicates that the NVRAM update task is not running and a system reset must be performed to correct the problem.

Recommended Action Perform a system reset. If this message reappears, contact your technical support representative.

Error Message SYS-3-SUP_AIMGDIFF2: Please reset the system to rectify the problem

Explanation This message indicates a system reset must be performed to correct a problem.

Recommended Action Perform a system reset. If the message reappears, contact your technical support representative.

Error Message SYS-3-SUP_AIMGTOOBIG: [chars] image is larger than reserved memory

Explanation This message indicates that the image file to synchronize is too large to fit into the active supervisor engine buffer. [chars] is the task name.

Recommended Action Contact your technical support representative.

Error Message SYS-3-SUP_AOUTOFSYNC: [chars] standby is out of sync

Explanation This message indicates that the active supervisor engine and the redundant supervisor engine communications are out of synchronization. [chars] is the task name.

Recommended Action Contact your technical support representative.

Error Message SYS-3-SUP_APENDINGCLI: The command [chars] did not execute completely before the HA switchover

Explanation This message indicates that the supervisor engine command currently being executed did not finish executing before the High Availability switchover. [chars] is the command line that was not executed.

Recommended Action Reexecute the failed command.

Error Message SYS-3-SUP_ARECVFAIL: [chars] unable to receive data from standby

Explanation This message indicates that an error occurred during a Flash code copy from the [chars] redundant supervisor engine to the active supervisor engine. [chars] is the active supervisor engine.

Recommended Action The TCP/IP connection might be broken due to a problem in the system. Contact your technical support representative.

Error Message SYS-3-SUP_ASEARLDIFF: Active and standby supervisors are of different earl types

Explanation This message indicates that the redundant supervisor engines have incompatible forwarding engine types. With this condition, the synchronization of Flash and NVRAM configuration is disabled.

Recommended Action Contact your technical support representative.

Error Message SYS-3-SUP_ASENDFAIL: [chars] unable to send data to standby

Explanation This message indicates that an error occurred during a Flash code copy from the active supervisor engine to the redundant supervisor engine. [chars] is the active supervisor engine.

Recommended Action The TCP/IP connection might be broken due to a problem in the system. Contact your technical support representative.

Error Message SYS-3-SUP_ASIMGDIFF: Active supervisor card is running a different version of NMP image

Explanation This message indicates that the active supervisor engine is running a different Network Management Processor (NMP) image version than the redundant supervisor engine.

Recommended Action Check the versions of NMP software being run on the active and redundant supervisor engines.

Error Message SYS-3-SUP_ASMMSGUNKNOWN: [chars] unknown message received

Explanation This message indicates that the redundant supervisor engine received an unknown TCP/IP message from the active supervisor engine. [chars] is the redundant supervisor engine.

Recommended Action Contact your technical support representative.

Error Message SYS-3-SUP_ASTATBAD: [chars] status failed received from standby

Explanation This message indicates that the redundant supervisor engine was unable to process a TCP/IP request sent by the active supervisor engine. [chars] is the task name.

Recommended Action There might be a problem with the redundant supervisor engine; contact your technical support representative.

Error Message SYS-3-SUP_ASTYPEDIFF: Active and standby supervisors are of different card types

Explanation This message indicates that the system has detected a difference between the active and redundant supervisor engine types. This message can also mean that there is a difference between ASIC types on the active and redundant supervisor engines.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-SUP_AUTHENTICATION_ACTION: Shutdown port [dec]/[dec]

Explanation This message indicates that a port has been shut down because the installed GBIC does not match security signatures. [dec]/[dec] is the module number/port number.

Recommended Action Contact your technical support representative.

Error Message SYS-3-SUP_AUTHENTICATION_FAILURE: Ports [dec]/[dec] and [dec]/[dec] have the same serial number

Explanation This message indicates that two installed GBICs share the same serial number. [dec]/[dec] are the module numbers and port numbers for the two ports.

Recommended Action Contact your technical services representative.

Error Message SYS-3-SUP_BUSSYNCFailure: Bus sync failure. Resetting Active Supervisor

Explanation This message indicates that following a High Availability switchover, the new active supervisor engine failed to complete a bus synchronization and that the active supervisor engine is being reset.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-SUP_CFGNOSYNC: Nvram synchronization will not happen

Explanation This message indicates that the redundant supervisor engines in the chassis do not have the same type of EARL or supervisor engines.

Recommended Action Make sure that the redundant supervisor engines have the same type of EARL board and the redundant supervisor engines are the same type.

Error Message SYS-3-SUP_CONFIGNOSYNC: Config file synchronization will not happen

Explanation This message indicates that a synchronization of the configuration file between the active supervisor engine and the redundant supervisor engine did not occur.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-SUP_DIFFBOOTIMAGE: Supervisor's boot images are not identical ([chars])

Explanation This message indicates that the boot versions of the active and redundant supervisor engines are different. [chars] can be high version, low version, or timestamp indicating where the mismatch occurred.

Recommended Action Contact your technical support representative.

Error Message SYS-3-SUP_DNLDAREAEEXCEED: Download aborted. File size larger than download buffer

Explanation This message indicates that the file size exceeds the buffer size. Check that the image is correct.

Recommended Action Contact your technical support representative.

Error Message SYS-3-SUP_DNLDINPROG: Download in progress

Explanation This message indicates that the software image is being downloaded to the supervisor engine. During the image download, reset is disabled.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-SUP_HA_DISABLE_AND_SRM_ENABLE: Invalid system configuration. High availability disabled with single router mode enabled.

Explanation This message indicates that the supervisor engine needs to be configured for High Availability to run the router processor in single router mode (SRM).

Recommended Action Enable High Availability on the supervisor engine.

Error Message SYS-3-SUP_HA_DISABLE_AND_SSO_ENABLE: Invalid system configuration. High availability disabled with SSO mode enabled.

Explanation This message indicates that the supervisor engine needs to be configured for High Availability to run the switch processor in SSO mode.

Recommended Action Enable High Availability on the supervisor engine.

Error Message SYS-3-SUP_IMGNO SYNC: Flash synchronization will not happen

Explanation This message indicates that the redundant supervisor engines in the chassis do not have the same type of EARL or supervisor engines.

Recommended Action Make sure that the redundant supervisor engines have the same type of EARL board and the redundant supervisor engines are the same type.

Error Message SYS-3-SUP_MODNONSBY: Module [dec] is present but not in standby mode

Explanation This message appears only when using Supervisor Engine 720 modules and only on the active Supervisor Engine 720 module. This message occurs only with systems containing redundant supervisor engines when one of the Supervisor Engine 720 modules has a problem booting up and is sent out to the ROM-based monitor (ROMMON). [dec] is the module number.

Recommended Action From the redundant supervisor engine console, boot the redundant supervisor engine manually. If the message reappears, contact your technical support representative.

Error Message SYS-3-SUP_NOSTANDBYSUP: No standby supervisor in system

Explanation This message indicates that the task reset mindown could not be executed because the system does not have a redundant supervisor engine installed. Reset mindown works only on systems with redundant supervisor engines.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-SUP_NVQUEUE: NVRAM Queue not empty

Explanation This message indicates that the NVRAM queue is not empty.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-SUP_PORTINTFRESETE: Supervisor Port Interface sync (Module [dec]) not recovered. Resetting the module.

Explanation This message indicates that the supervisor engine port interface module is not synchronized. [dec] is the module number.

Recommended Action Try reseating the supervisor engine. If the problem continues, contact your technical support representative.

Error Message SYS-3-SUP_PWRDNPORTINTF: Supervisor Port Interface sync (Module [dec]) not recovered. Powering down the module\n

Explanation This message indicates that the supervisor engine has a synchronization problem with a switching module. The supervisor engine uses module and port indexes to determine which switching module caused the sequence error. The supervisor engine resets the switching module with the sequence error. If the error persists, the supervisor engine powers down the switching module. [dec] is the number of the module with the sequence error.

Recommended Action Run offline and online diagnostics on the powered down switching module. If this problem continues, contact your technical support representative.

Error Message SYS-3-SUP_RESETMINDOWNNOPROC: Unable to create reset mindown process

Explanation This message indicates that the create process failed to create the reset mindown task.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-SUP_RESETMINDOWNNOTSUP: Reset mindown not supported by downloaded version

Explanation This message indicates that the downloaded software version does not support the reset minimum down time command.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-SUP_RESETMINFAILED: Reset mindownload failed

Explanation This message indicates that the active supervisor engine failed to reset itself. Another error message might be generated before this message, which can provide additional information as to why the active supervisor engine failed to reset itself.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-SUP_SACCEPTFAIL: [chars] standby task accept call failed

Explanation This message indicates that the TCP/IP accept call failed. In this case, the duplicate Flash and NVRAM synchronization tasks do not run. [chars] is the redundant supervisor engine.

Recommended Action Contact your technical support representative.

Error Message SYS-3-SUP_SBINDFAIL: [chars] standby task bind call failed

Explanation This message indicates that the TCP/IP bind call failed. In this case, the duplicate Flash and NVRAM synchronization tasks do not run. [chars] is the redundant supervisor engine.

Recommended Action Contact your technical support representative.

Error Message SYS-3-SUP_SBYSUPNOTONLINE: Failed to bring standby supervisor online

Explanation This message indicates that the redundant supervisor engine did not come online. The reset mindown task is aborted.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-SUP_SBYSUPRSTMINMSG: Standby supervisor did not acknowledge reset mindown message

Explanation This message indicates that the redundant supervisor engine did not respond to the reset mindown message issued by the active supervisor engine. The active supervisor engine will not initiate a reset.

Recommended Action Contact your technical support representative.

Error Message SYS-3-SUP_SBYSUPSLPFAILED: Unable to communicate with standby using SLP

Explanation This message indicates that SLP communication failed between the active and redundant supervisor engines.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-SUP_SDNLDNOSPACE: [chars] image larger than standby supervisor reserved memory

Explanation This message indicates that the image file to synchronize is too large to fit into the redundant supervisor engine buffer. [chars] is the task name.

Recommended Action Contact your technical support representative.

Error Message SYS-3-SUP_SIMGPROGFAIL: [chars] standby flash programming failed

Explanation This message indicates that the Flash programming of the redundant supervisor engine failed. [chars] is the task name.

Recommended Action Contact your technical support representative.

Error Message SYS-3-SUP_SINBOOT: Standby supervisor module [dec] is running boot code

Explanation This message indicates that the redundant supervisor engine module [dec] is running BOOT code. [dec] is the module number.

Recommended Action This message is provided for information only, but it could indicate that the supervisor engine Flash is corrupted, the redundant supervisor engine is not configured to boot up with a valid image, or the boot failed. If you suspect the supervisor engine Flash is corrupted, wait for the active supervisor engine to reprogram the Flash. If this message reappears, contact your technical support representative.

Error Message SYS-3-SUP_SLISTENFAIL: [chars] standby task listen call failed

Explanation This message indicates that the TCP/IP listen call failed. [chars] is the redundant supervisor engine. In this case, the duplicate Flash and NVRAM synchronization tasks do not run.

Recommended Action Contact your technical support representative.

Error Message SYS-3-SUP_MSGUNKNOWN: [chars] unknown message received

Explanation This message indicates that the supervisor engine received an unknown message for the task during a Flash to NVRAM synchronization. [chars] is the task name.

Recommended Action Contact your technical support representative.

Error Message SYS-3-SUP_SOUTOFSYNC: [chars] standby is out of sync

Explanation This message indicates that the duplicate Flash synchronization process between the active and redundant supervisor engines is not working due to some problems in the system. [chars] is the task name.

Recommended Action Contact your technical support representative.

Error Message SYS-3-SUP_SRECVERR: General TCP error in receiving data from active

Explanation This message indicates that TCP is having difficulty receiving data from the active supervisor engine.

Recommended Action Reset the standby supervisor engine. If the problem continues, contact your technical support representative.

Error Message SYS-3-SUP_SRECVFAIL: [chars] unable receive data from active

Explanation This message indicates that the redundant supervisor engine cannot receive data from the active supervisor engine due to a problem in the system. [chars] is the task name.

Recommended Action Contact your technical support representative.

Error Message SYS-3-SUP_SSENDFAIL: [chars] unable send data to active

Explanation This message indicates that the redundant supervisor engine cannot send data to the active supervisor engine due to a problem in the system. [chars] is the task name.

Recommended Action Contact your technical support representative.

Error Message SYS-3-SUP_SSOCKFAIL: [chars] standby task socket call failed

Explanation This message indicates that the TCP/IP socket call failed. In this case, the duplicate Flash and NVRAM synchronization tasks do not run. [chars] is the redundant supervisor engine.

Recommended Action Contact your technical support representative.

Error Message SYS-3-SUP_SYNCDIAGFAILED: Unable to sync diag info. Please reset manually

Explanation This message indicates that the diagnostic information between the active and redundant supervisor engines was not synchronized, which prevents the active supervisor engine from transferring control to the redundant supervisor engine.

Recommended Action Contact your technical support representative.

Error Message SYS-3-SUP_THERMALERROR: ERROR: CPU [dec] overlapped ERROR temperature

Explanation This message indicates that the CPU has exceeded the operating temperature limits and is at risk of being shut down. [dec] is the CPU number.

Recommended Action Make sure that there is adequate cooling in the chassis and that the chassis vents are clear.

Error Message SYS-3-SUP_THERMALWARNING: WARNING: CPU [dec] overlapped WARNING temperature

Explanation This message indicates that the CPU is near the operating temperature threshold limits. [dec] is the CPU number.

Recommended Action Make sure that there is adequate cooling in the chassis and that the chassis vents are clear.

Error Message SYS-3-SUP_THISSUPRESET: Resetting this supervisor.. standby supervisor will take over

Explanation This message indicates that reset mindown is resetting the active supervisor engine. The redundant supervisor engine will take over.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-SUP_WAITSBYSUPONLINE: Wait for standby supervisor to come online

Explanation This message indicates that the reset mindown task is waiting for the redundant supervisor engine to come online.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-SYSINFOLOG_ADDRFAIL: TFTP address is invalid

Explanation This message indicates that the TFTP address is invalid.

Recommended Action Make sure that the address configured for this feature is a valid address.

Error Message SYS-3-SYSINFOLOG_FTPCFGERR: Ftp username or password not configured, Authentication Failure

Explanation This message indicates that an appropriate username and password are not set after configuring the System Information Logging feature to use FTP as a transfer protocol.

Recommended Action Make sure that the username and password are appropriately configured by using the **set ftp username** *username* and **set ftp password** *password* commands.

Error Message SYS-3-SYSINFOLOG_MEMFAIL: Malloc for system information logging failed

Explanation This message indicates that there is not enough memory allocated for the system information logging feature.

Recommended Action Turn off features that are not being used to free memory. If you cannot allocate enough memory space, contact your technical support representative.

Error Message SYS-3-SYSINFOLOG_NOCMDS: No commands are configured

Explanation This message indicates that there are no commands configured for the procedure.

Recommended Action Configure the commands that have the output that you want stored in the destination file.

Error Message SYS-3-SYSINFOLOG_RCPFAIL: RCP failure: [chars]

Explanation This message indicates that the system information logging process has failed to copy information out to the server using the RCP method. [chars] is the cause of the failure.

Recommended Action Check the RCP configuration and RCP user name, and make sure that the destination server is accessible from the switch.

Error Message SYS-3-SYSINFOLOG_WRITEFAIL: Failed to write to the destination [chars] on the server

Explanation This message indicates that the system information logging feature is having trouble writing to the destination file. [chars] is the destination filename.

Recommended Action Verify that the destination file exists, that the proper permissions are set to the file, and that the destination server is available from the switch.

Error Message SYS-3-SYS_LCPERR3:Module [dec]: Bus Asic #[dec] out of sync error

Explanation This message indicates a multiple-synchronization problem between the bus ASIC and the port ASIC. The first [dec] is the module number. The second [dec] is the ASIC number.

Recommended Action Replace the module if the error occurs several times, or contact your technical support representative.

Error Message SYS-3-SYS_LCPERR3:Module [dec]: Bus Asic #[dec] Pt #[dec] receive FIFO error detected

Explanation This message indicates an error in a bus ASIC for a specific port. The module has detected a receive FIFO error in the bus ASIC. The first [dec] is the module number. The second [dec] is the ASIC number. The third [dec] is the ASIC port.

Recommended Action If the error is limited to a single module, replace the module. If the message occurs several times, contact your technical support representative.

Error Message SYS-3-SYS_LCPERR3:Module [dec]: Coil [dec] Port [dec] stuck [dec] times([dec] due to lcol; [dec] due to notx)

Explanation This message indicates that the module has detected a problem with a port ASIC and that an ASIC port has locked up. This situation could be caused by a duplex mismatch, a mix of hub-switch combinations, out-of-specification network interface cards, or extra-long interface cables. Module [dec] is the module reporting the error. Coil [dec] is the ASIC number reporting the error. Port [dec] is the ASIC port with the error. Both the ASIC and port values start numbering at 0 with 12 ports per ASIC (0–11). stuck [dec] is the error duration. The last two [dec] are the late collision (lcol) and no data transmission (notx) counts.

Recommended Action Check the physical status of the port for duplex mismatch, out-of-sync network interface cards on the attached workstations, error disable condition, late collisions, or any link-level errors. The message does not necessarily indicate a hardware problem. If the error reoccurs, contact your technical support representative.

Error Message SYS-3-SYS_LCPERR3:Module [dec]: Coil Master CPU Interface Error - Coil #[dec]

Explanation This message indicates an error on the port ASIC control access. The first [dec] is the module number. The second [dec] is the ASIC number.

Recommended Action Refer to *Troubleshooting WS-X6348 Module Port Connectivity for Catalyst 6500/6000 Using CatOS* at <http://www.cisco.com/warp/public/473/163.html> for troubleshooting information. If you continue to get this error message, contact your technical support representative.

Error Message SYS-3-SYS_LCPERR3:Module [dec]: Coil Mdtif CPU Interface State Machine Error - Port #[dec]

Explanation This message indicates an error in the port ASIC. The first [dec] is the module number. The second [dec] is the ASIC port number.

Recommended Action Refer to *Troubleshooting WS-X6348 Module Port Connectivity for Catalyst 6500/6000 Using CatOS* at <http://www.cisco.com/warp/public/473/163.html> for troubleshooting information. If you continue to get this error message, contact your technical support representative.

Error Message SYS-3-SYS_LCPERR3:Module [dec]: Coil Pb Rx Underflow Error - Port #[dec]

Explanation This message indicates an underflow in the port ASIC receive packet buffer. The first [dec] is the module number. The second [dec] is the ASIC port number.

Recommended Action Refer to *Troubleshooting WS-X6348 Module Port Connectivity for Catalyst 6500/6000 Using CatOS* at <http://www.cisco.com/warp/public/473/163.html> for troubleshooting information. If you continue to get this error message, contact your technical support representative.

Error Message SYS-3-SYS_LCPERR3:Module [dec]: Coil Pb Tx Underflow Error - Port #[dec]

Explanation This message indicates an underflow in the port ASIC transmit buffer. The first [dec] is the module number. The second [dec] is the ASIC port number.

Recommended Action Refer to *Troubleshooting WS-X6348 Module Port Connectivity for Catalyst 6500/6000 Using CatOS* at <http://www.cisco.com/warp/public/473/163.html> for troubleshooting information. If you continue to get this error message, contact your technical support representative.

Error Message SYS-3-SYS_LCPERR3:Module [dec]: Coil Pinnacle Header Checksum Error - Port #[dec]

Explanation This message indicates an error in the port ASIC. The first [dec] is the module number. The second [dec] is the ASIC port number.

Recommended Action Refer to *Troubleshooting WS-X6348 Module Port Connectivity for Catalyst 6500/6000 Using CatOS* at <http://www.cisco.com/warp/public/473/163.html> for troubleshooting information. If you continue to get this error message, contact your technical support representative.

Error Message SYS-3-SYS_LCPERR3:Module [dec]: Debug Port Counter Initialization Complete

Explanation This message indicates that the module has started the port counter error-detection task.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-SYS_LCPERR3:Module [dec]: EOBC Collision detect count = [dec]

Explanation This message indicates that the module has detected a problem with the channel used for out-of-band communication with other modules in the system. The module reports an abnormal level of collision. The first [dec] is the module number. The second [dec] is the error count.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-3-SYS_LCPERR3:Module [dec]: EOBC CRC detect count = [dec]

Explanation This message indicates that the module has detected a problem with the channel used for out-of-band communication with other modules in the system. The module has detected frames with CRC errors. The first [dec] is the module number. The second [dec] is the error count.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-3-SYS_LCPERR3:Module [dec]: EOBC Illegal frame length error count = [dec]

Explanation This message indicates that the module has detected a problem with the channel used for out-of-band communication with other modules in the system. The module has detected frames with illegal lengths. The first [dec] is the module number. The second [dec] is the error count.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-3-SYS_LCPERR3:Module [dec]: Medusa #[dec]: Number of packet(s)/byte(s) switched through the fabric uplink is 0 (Registers B0 & B2)

Explanation This message indicates that the reporting module is not transmitting to the active switch fabric module. The first [dec] is the module number. The second [dec] is the ASIC number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-3-SYS_LCPERR3:Module [dec]: Pinnacle #[dec] : Port #[dec], Frames with CRC errors on RBus (PI_PN_S_RBUS_ERR_CNT_REG - 0x159) = [dec]

Explanation This message indicates that the module has detected frames with a CRC error received by the bus ASIC from the Rbus. The first [dec] is the module number. The second [dec] is the ASIC number reporting the error. The third [dec] is the ASIC port. The fourth [dec] is the error count.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-3-SYS_LCPERR3:Module [dec]: Pinnacle #[dec], Frames with Bad Checksum on RBus (PI_CI_S_RBUS_FCS - 0xC6) = [dec]

Explanation This message indicates that the module has detected frames with a bad checksum received by the bus ASIC from the RBus. The first [dec] is the module number. The second [dec] is the ASIC number reporting the error. The third [dec] is the error count.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-3-SYS_LCPERR3:Module [dec]: Pinnacle #[dec], Frames with Bad Header Checksum on DBus (PI_CI_S_HDR_FCS - 0xC5) = [dec]

Explanation This message indicates that the module has detected frames with a bad checksum received by the bus ASIC from the DBus. The first [dec] is the module number. The second [dec] is the ASIC number reporting the error. The third [dec] is the error count.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-3-SYS_LCPERR3:Module [dec]: Pinnacle #[dec], Frames with Bad Packet CRC Error (PI_CI_S_PKT_CRC_ERR - 0xC7) = [dec]

Explanation This message indicates that the module has detected frames with a bad packet CRC received by the bus ASIC from the DBus. The first [dec] is the module number. The second [dec] is the ASIC number reporting the error. The third [dec] is the error count.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-3-SYS_LCPERR3:Module [dec]: Pinnacle #[dec], Frames with Bad Packet Length Error (PI_CI_S_PKT_LEN_ERR - 0xC8) = [dec]

Explanation This message indicates that the module has detected frames with a bad packet length received by the bus ASIC from the DBus. The first [dec] is the module number. The second [dec] is the ASIC number reporting the error. The third [dec] is the error count.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-3-SYS_LCPERR3:Module [dec]: Port #[dec] (Bus Asic #[dec] Pt #[dec]) receive FIFO error detected

Explanation This message indicates an error for a specified port. The module detected a receive FIFO error in the bus ASIC. The first [dec] is the module number. The second [dec] is the front panel port. The third [dec] is the ASIC number. The fourth [dec] is the ASIC port.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-3-SYS_LCPERR3:Module [dec]: Santa Ana #[dec] is stuck (SA_GLOBAL_CONTROL_0 reg is RESET)

Explanation This message indicates that the module has detected a problem with an ASIC that interconnects this module to the active switch fabric module. The first [dec] is the module number. The second [dec] is the ASIC number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-3-SYS_MEMERR: [chars] while [chars] address 0x[hex]

Explanation This message indicates that memory management has detected memory corruption. The first [chars] might be Out of range, Bad alignment, Block is not free, No clusters left, Back pointer mismatch, Bad magic number, succeeding block out of range, succeeding block improperly aligned, preceding block out of range, preceding block improperly aligned, or incorrect process ID. The second [chars] might be freeing, getting, or allocating. The [hex] field is the block address you are trying to free, get, or allocate. For example, the message SYS-3-SYS_MEMERR: No clusters are left while allocating for address 0x409c1900 and the message SYS-3-SYS_MEMERR: Null cluster while getting next from address 0x30e8eda0 can sometimes occur together, indicating that the system may be overloaded. The system can recover properly if the heavy load is temporary.

Recommended Action Check to see if the system is overloaded. If the system is overloaded, reduce the load. If the system does not appear to be overloaded, contact your technical support representative.

Error Message SYS-3-SYS_MEMLOW: [chars] usage exceeded 90%

Explanation This message indicates that memory usage has exceeded 90 percent. [chars] refers to the memory cluster (NMP operating system memory) or the mbuf (memory buffer). If the message indicates the memory cluster, then the NMP operating system memory has exceeded 90 percent usage. If the message indicates the mbuf, then the control plane frame buffer usage, which includes Spanning Tree BPDUs, CDP, PAgP, DISL, and all other administrative protocols as well as the SNMP and NTP type protocols in the administrative VLAN bound for the NMP CPU, has exceeded 90 percent.

Recommended Action If the message indicates memory cluster usage exceeded 90 percent, try disabling some features or upgrade memory. If the message indicates mbuf usage exceeded 90 percent, try to decrease traffic on the administrative VLAN to prevent future packet loss.

Error Message SYS-3-SYS_RMONLOWMEM: Fail to allocate memory for RMON. Memory usage exceeds [dec]

Explanation This message indicates that the user-defined RMON memory allocation has failed. [dec] is the memory percentage exceeded.

Recommended Action Contact your technical support representative.

Error Message SYS-3-SYS_RMONMEMLOW: Fail to allocate memory for RMON. System memory usage excess [dec]

Explanation This message indicates that the RMON facility is requesting memory from the system, and the system memory usage exceeds or will exceed the preset threshold.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-SYSINFOLOG_MEMFAIL: Malloc for system information logging failed

Explanation This message indicates a memory failure. The logging step will be skipped.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-3-TRANSCEIVER_FAILED: [chars]

Explanation This message indicates that the transceiver has failed the security check. [chars] refers to the message that appears. If the firmware reports that the port is not approved or has a faulty serial programmable read-only memory (SPROM), the following message appears: “Transceiver integrity check on port [dec]/[dec] failed:bad crc or bad key.” If the NMP detects duplicate serial numbers, the following message appears: “Transceivers on ports [dec]/[dec] and [dec]/[dec] have duplicate serial numbers.” The first [dec] refers to the module number, and the second [dec] refers to the port number.

Recommended Action Replace the transceiver.

Error Message SYS-3-TRANSCEIVER_NOTAPPROVED: [chars]

Explanation This message indicates that there is an unsupported SFP and/or XENPAK after the NMP is notified by the firmware. An unsupported GBIC is allowed to pass traffic, but an unsupported SFP or XENPAK is not. [chars] is the message that appears, which depends on the type of device (GBIC, SFP, or XENPAK). If the device is a GBIC, the following message will appear: “GBIC on port [dec]/[dec] is not supported.” If the device is an SFP or a XENPAK, the following message will appear: “Transceiver on port [dec]/[dec] is not supported.” The first [dec] refers to the module number, and the second [dec] refers to the port number.

Recommended Action Remove any unsupported SFP and/or XENPAK, and install a supported SFP and/or XENPAK. Refer to the hardware documentation for your switch for information about which SFP and XENPAK is supported. If you continue to receive this error message, make sure that you are using the current software release. Upgrade your software if necessary.

Error Message SYS-3-TRANSCEIVER_NOTSUPP: [chars]

Explanation This message indicates that an unsupported GBIC, SFP or XENPAK is inserted into a switching module. An unsupported GBIC, SFP, or XENPAK might not pass traffic. [chars] is the message that appears, which depends on the type of device (GBIC, SFP, or XENPAK). If the device is a GBIC, the following message will appear: “GBIC on port [dec]/[dec] is not supported.” If the

device is an SFP or a XENPAK, the following message will appear: “Transceiver on port [dec]/[dec] is not supported.” The first [dec] refers to the module number, and the second [dec] refers to the port number.

Recommended Action Remove any unsupported GBIC, SFP, and/or XENPAK and install a supported GBIC, SFP, and/or XENPAK. Refer to the hardware documentation for your switch for information about which a GBIC, SFP, and XENPAK is supported. If you continue to receive this error message, make sure that you are using the current software release. Upgrade your software if necessary.

SYS-4

Error Message SYS-4-PKTBUFFERFAIL_WARN:Err-disabled ports with packet-buffer failure. Module [dec]/[dec] can be power cycled to recover from this error.

Explanation The message indicates that the default error-detection packet buffer setting is disabling the port. Whenever a parity failure is detected on the port, ASIC ports are error disabled. [dec]/[dec] is the module number/port number of the error-disabled port.

Recommended Action Reset the module to recover the err-disabled ports.

Error Message SYS-4-SYS_NO_CF: No CompactFlash found on [chars] adapter card.

Explanation This message indicates that no CompactFlash memory card is inserted in the Melody adapter slot.

Recommended Action Insert the memory card and then reboot the switch.

Error Message SYS-4-SUP_ASMEM_MISMATCH: Asymmetrical redundant configuration: Active supervisor has [chars] memory, Standby has [chars]

Explanation This message indicates that the active and the standby supervisor engines have different memory types (bootflash and Compact Flash). This is only a warning that the standby supervisor engine may not function when in need due to this difference.

Recommended Action Ensure that the active and standby supervisor engines have either bootflash or compactflash (bootdisk).

Error Message SYS-4-FAB_SM_CHANGE_MODE: Etherchannel removed, service module in slot [dec] can be changed to default switching mode

Explanation This message indicates that the switching mode of the service modules can be reverted to the default by entering the **no fabric switching-mode force busmode** command.

Recommended Action Restore the default by entering the **no fabric switching-mode force busmode** command.

Error Message SYS-4-FAB_SM_FORCE_BUS_MODE: Power cycling service module in slot [dec] to force to bus mode

Explanation This message indicates that traffic from the specified modules cannot pass through the distributed EtherChannel as configured because of the hardware limitation of the service module in the slot specified. [dec] is the slot number of the service module.

Recommended Action Force the service modules switching mode to busmode by entering the **fabric switching-mode force busmode** command, or change the channel configuration so that the affected modules do not need to pass traffic through the EtherChannel.

Error Message SYS-4-LINK_INERRORSWARN: Port [dec]/[dec] inErrors warning

Explanation This message indicates that a port's inErrors counter has exceeded the low threshold. [dec]/[dec] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-4-LINK_RXCRCWARN: Port [dec]/[dec] rxcrcErrors warning

Explanation This message indicates that a port received CRC error packets and alignment error packets that drop below the configured low threshold and sampling requirements. The first [dec] is the module number, and the second [dec] is the port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-4-LINK_TXCRCWARN: Port [dec]/[dec] txcrcErrors warning

Explanation This message indicates that a port transmitted CRC error packets and alignment error packets that drop below the configured low threshold and sampling requirements. The first [dec] is the module number, and the second [dec] is the port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-4-MODHPRESET: Host process (860) [dec] [dec] got reset asynchronously

Explanation This message indicates that the module host processor has been reset. The first [dec] is the module number where the host processor resides; the second [dec] is the number of the processor that was reset. (Some modules may have more than one processor onboard.)

Recommended Action Contact your technical support representative.

Error Message SYS-4-MOD_SHUTDOWNEND_RESET: Module [dec] shutdown completed. Module resetting...

Explanation This message indicates that you have reset a switching module and the module shuts down and begins to reset. [dec] refers to the module number of the switching module that has been shut down.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-4-NVLOG: Failed to automatically save system configuration to NVRAM as system configuration is being updated

Explanation This message indicates that the system could not save the system configuration.

Recommended Action Contact your technical support representative.

Error Message SYS-4-NVLOG:SYNDIAGS:Local Test Mode encounters Minor hardware problem in Module [dec].

Explanation This message indicates that the module in slot [dec] has not completely passed the POST. An improperly seated module or defective hardware may cause this error. Enter the **show test** [dec] command to see the test results.

Recommended Action Verify that all modules are seated properly in the chassis. Pull out the module mentioned in the message and inspect the backplane and module for bent pins/hardware. If the message persists after reseating all the modules, a hardware problem may exist, such as a defective module or a chassis. For more information, contact your technical support representative.

Error Message SYS-4-NVLOG:sys_check_nvram_blocks:Block [dec] restored from NS. [hex] ([hex]), [hex] ([hex])

Explanation A corrupted block in NVRAM was identified and restored. The NVRAM is checked on an hourly basis for corrupted blocks. If one is found, a copy of it is made in DRAM to ensure that the configuration is not lost. The NVRAM monitoring feature is a background process that allows the system to recover when data in NVRAM is corrupted. [dec] indicates the number of blocks restored.

Recommended Action If the message recurs, contact your technical support representative.

Error Message SYS-4-P2_LogBrObsoleteGbicInserted: Port [chars]: Gbic serial eeprom date [chars] is earlier than 07/98; return to [chars] for reprogramming

Explanation This message indicates that a preproduction GBIC has been detected. The first [chars] is the port where the faulty GBIC is installed, the second [chars] is the serial EEPROM date, and the third [chars] is where the GBIC should be returned.

Recommended Action Contact your technical support representative.

Error Message SYS-4-P2_LogEbmZeroEtherAddr: Filtering Ethernet MAC address of value zero from agent host table interface

Explanation This message indicates that a MAC address of 00:00:00:00:00:00 has been discovered. The MAC address is not standards compliant.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-4-P2_LogEpcHostAccessDenied: Host [ether] access denied on port [chars]

Explanation This message indicates that the specified host is seen as a source address on the specified port. However, the system has been configured to deny traffic from the host on the specified port. As a result, all traffic from this address on this port is dropped. The most common reason for this situation is that port security is enabled. If a different address is currently assigned to the secure port, traffic from any other address is dropped because it is a security violation. [ether] is the Ethernet host address, and [chars] is the port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-4-P2_LogEpcMulticastSource: Invalid traffic from multicast source address [ether] on port [chars]

Explanation This message indicates that traffic from a multicast source is being received on the specified port. This is not a standards-compliant operation; however, the information will be forwarded based on the destination address. [ether] is the source address, and [chars] is the port where the data is being received.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-4-P2_LogEpcPermanentHostWrongPort: Traffic from permanent host [ether] but seen on incorrect port [chars]

Explanation This message indicates that the host, which was configured to appear on a specific port only, is also being seen on another port. All host traffic on the incorrect port is dropped. [ether] is the host address, and [chars] is the port where the host traffic is appearing.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-4-P2_LogEpcVlanTagConflictsWithAccessPort: Tag [dec] on packet from [ether] port [chars], but port's native vlan is [dec]

Explanation This message indicates that an 802.1q tagged packet was received on a non-trunk port. The VLAN derived from the packet tag is different from the native VLAN on the port. The Tag [dec] is the VLAN identifier from the packet, [ether] is the host address, port [chars] is the port identifier, and the second [dec] is the native VLAN number.

Recommended Action The local port may be incorrectly configured as an access port instead of a trunk port. Alternately, the remote side could be configured as a trunk port instead of an access port. Contact your technical support representative.

Error Message SYS-4-P2_LogGalLinecardCleanupTooLong: Module [dec] is taking an unusual amount of time to come online

Explanation This message indicates that the powering-up process for a hot-swapped module is taking too long. When the new module powers up, a clean-up process removes conditions associated with the old module. [dec] is the module number.

Recommended Action Do not immediately remove and reinsert the module because the clean-up process will begin again. Wait ten minutes, and if the module does not come online, reset the switch.

Error Message SYS-4-P2_LogNicerManDiagsFailed: [chars] failed diags

Explanation This message indicates that an ASIC has failed diagnostics. [chars] is the ASIC name.

Recommended Action Contact your technical support representative.

Error Message SYS-4-P2_LogNicerManFailedToSendLoopbackTries: [chars] port [dec] failed to send packet in [dec] tries

Explanation This message indicates that an ASIC was unable to send a loopback packet on the ASIC port identified. The loopback packet is sent only three times. [chars] is the ASIC, [dec] is the port number, and the second [dec] is the number of tries and failures.

Recommended Action Contact your technical support representative.

Error Message SYS-4-P2_LogNicerManNotifySuicide: Online diags [chars] received suicide event while in state [dec]

Explanation This message indicates that the time limit for completion of the ASIC diagnostics has expired. [chars] identifies which ASIC exceeded its time limit, and [dec] identifies what state the ASIC was in when time expired.

Recommended Action Contact your technical support representative.

Error Message SYS-4-P2_LogNicerManResettingNicer: Warning-resetting Nicer [chars] due to loss of all communications

Explanation This message indicates that the ASIC manager has done ten consecutive retransmissions of a packet to the ASIC without receiving a response. The ASIC manager attempts to reset the ASIC. [chars] is the ASIC name.

Recommended Action Contact your technical support representative.

Error Message SYS-4-P2_LogNicerManUnexpectedLoopback: [chars] sent out a loopback packet on port [dec], but it came back on port [dec]

Explanation This message indicates that the ASIC diagnostics for the ASIC sent a loopback packet out of one port and received the loopback packet on another port. [chars] is the name of the ASIC, the first [dec] is the first port number, and the second [dec] is the second port number.

Recommended Action Contact your technical support representative.

Error Message SYS-4-P2_LogScxManOutOfMcis: Out of multicast table entries

Explanation This message indicates that the system has run out of resources required to forward multicast traffic and unknown destination traffic.

Recommended Action This is usually a transient condition seen during periods of heavy traffic. If the problem persists, try disabling CGMP/IGMP.

Error Message SYS-4-P2_LogScxSingleK1ManOutOfMcis: Out of multicast table entries

Explanation This message indicates that the system has run out of resources required to forward multicast traffic and unknown destination traffic.

Recommended Action This is usually a transient condition seen during periods of heavy traffic. If the problem persists, try disabling CGMP/IGMP.

Error Message SYS-4-P2_LogScxTripleK1ManOutOfMcis: Out of multicast table entries

Explanation This message indicates that the system has run out of resources required to forward multicast traffic and unknown destination traffic.

Recommended Action This is usually a transient condition seen during periods of heavy traffic. If the problem persists, try disabling CGMP/IGMP.

Error Message SYS-4-P2_LogSkmpInvalidVlanDropPacket: Invalid vlanId [dec], dropping packet DA [ether] SA [ether]

Explanation This message indicates that an index-directed packet from the supervisor engine was received with an invalid VLAN number. [dec] is the invalid VLAN number, DA [ether] is the destination address of the packet, and SA [ether] is the source address of the packet.

Recommended Action Contact your technical support representative.

Error Message SYS-4-PKTBUFFERFAIL_SUP_WARN: Packet buffer failure. Powercycle supervisor to recover from this error.

Explanation This message indicates that packet-buffer errors have been detected on the supervisor engine ports. Ports with the error will be err-disabled.

Recommended Action Power cycle the affected supervisor engines.

Error Message SYS-4-PORT_GBICBADEEPROM: Port [dec]/[dec] bad gbic eeprom checksum

Explanation This message indicates that a bad checksum has been detected in a GBIC module. [dec]/[dec] is the module number/port number of the faulty GBIC.

Recommended Action Replace the GBIC.

Error Message SYS-4-PORT_GBICNOTSUPP: Port [dec]/[dec] GBIC is unsupported

Explanation This message indicates that an installed GBIC could not be identified because either the GBIC serial EPROM is faulty or the GBIC is an unsupported version. [dec]/[dec] is the module number/port number of the faulty GBIC.

Recommended Action If you are using a Cisco-supported GBIC, contact your technical support representative. Otherwise, either replace the unsupported GBIC with a supported GBIC or disregard the message.

Error Message SYS-4-PORT_WARN: Port [dec]/[dec] [chars] ([dec]) [chars] ([dec]) [chars] ([dec])

Explanation This message indicates that multiple port error counters have incremented. [dec]/[dec] is the module number/port number, the first [chars] ([dec]) is the first port error counter and its count, the second [chars] ([dec]) is the second port error counter and its count, and the third [chars] ([dec]) is the third port error counter and its count.

Recommended Action Contact your technical support representative.

Error Message SYS-4-PS_INPUT: Power supply [dec] input [chars]

Explanation Some DC power supplies can change their capacity during operation. This message informs the user what the new capacity is after it changes. [dec] is the power supply number, and [chars] is the power supply capacity.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-4-PS_MINORPOWERALARM: System power usage exceeds the recommended range of [chars] W

Explanation This message indicates that for some chassis, the power usage must be limited because of the heat dissipation. This message indicates that the power usage has exceeded the maximum allowed range. The system will continue to operate, but continued operation at this level of power usage is not recommended. [chars] is the maximum power usage setting.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-4-PS_MINORPOWERALARMRECOVER: System power usage returned to the normal range

Explanation This message indicates that the power usage has dropped below the maximum power usage setting before the timer could expire.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-4-PS1_EMPTYALERT: Single power supply system should utilize slot 1

Explanation This message indicates that the system has detected a power supply installed in power bay 2 and no power supply installed in bay 1. In single power supply configuration systems, the power supply must be installed in bay 1.

Recommended Action Install the power supply in power bay 1.

Error Message SYS-4-PS1_FAILALERT: Power supply [dec] input [chars]

Explanation This message indicates that in some chassis, the maximum power usage range requires the presence of a power supply in bay 1. This message indicates that you have removed the power supply in bay 1, causing the maximum allowed range for the power usage to decrease. [dec] is the number of the power supply, and [chars] is the power usage.

Recommended Action Insert a power supply into bay 1. The power supply may be on or off but the presence of the power supply assists heat dissipation and should remedy the error condition.

Error Message SYS-4-SPAN_RSPANVLAN_DSTPORT_INPKTS: Rspan Vlan [dec] belongs to span destination which has inpkts enabled

Explanation This message indicates that the native VLAN of the SPAN destination (which has option inpkts enabled) has become an RSPAN VLAN. [dec] is the native VLAN of the SPAN destination port.

Recommended Action Change the native VLAN of the SPAN destination port back to a regular VLAN (not an RSPAN VLAN).

Error Message SYS-4-SUPERVISOR_ERR: [chars] [chars]

Explanation This message indicates that the supervisor engine error counters have incremented. The first [chars] is the counter name and the second [chars] is the counter value (the 64-bit counters are converted to a string format before being printed).

Recommended Action Contact your technical support representative.

Error Message SYS-4-SYS_LCPERR4:Module [dec]: LTL Parity error detected on Coil #[dec].: Module requires attention - troubleshoot or contact TAC

Explanation The ASIC coil on the module that controls a set of 12 10/100 Mbps ports has experienced a parity error. In Catalyst 6.4(6) releases and later, the ports are placed in errdisable mode to prevent random network connectivity issues. The parity errors can be type soft or hard errors. Soft parity errors can be caused by transient issues with the ASIC, memory, or the module. The first [dec] is the slot number of the module, and the second [dec] is the number of the ASIC.

Recommended Action Disable and reenab the ports to recover from errdisable mode. If the problem persists, reset or reseate the module. If the message recurs after reseating the module, a hardware problem, such as a defective module or a chassis, may exist. For more information, contact your technical support representative.

Error Message SYS-4-SYS_LCPERR4: Module [dec]: Pinnacle #[dec] PB Parity Error" : Error Message: "SYS-4-SYS_LCPERR4: Module [dec]: Pinnacle #[dec] PB Parity Error

Explanation This message indicates a transient Pinnacle ASIC packet buffer problem. The first [dec] is the module number. The second [dec] is the ASIC number.

Recommended Action If the error is limited to a single module, power cycle the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-4-SYS_LCPERR4:Module [dec]: QChip Bic Catastrophic Error, Info=[hex]

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number, and [hex] is debugging information.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-4-SYS_LCPERR4:Module [dec]: QChip Bic Fifo Overflow Error

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-4-SYS_LCPERR4:Module [dec]: QChip Noc Global Error, Info=[hex]

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number, and [hex] is debugging information.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-4-SYS_LCPERR4:Module [dec]: QChip Port#[dec] Noc Address Sequence Error

Explanation This message indicates an error for a specified port. The module has detected a sequencing error in the QChip ASIC. This is a debugging message for Cisco development purposes. The first [dec] is the module number, and the second [dec] is the front panel port.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-4-SYS_LCPERR4:Module [dec]: QChip Pq Arb Fifo Full Error

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-4-SYS_LCPERR4:Module [dec]: QChip Red Average Count Overflow Error, Info=[hex]

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number, and [hex] is debugging information.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-4-SYS_LCPERR4:Module [dec]: QChip Red Used Count Overflow Error, Info=[hex]

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number, and [hex] is debugging information.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-4-SYS_LCPERR4:Module [dec]: QChip Txmm Noc Decrement Error

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-4-SYS_LCPERR4:Module [dec]: RChip Boc Error, Info=[hex]

Explanation This message indicates that the module has detected an error related to the RChip ASIC. This message is a debugging message for Cisco development purposes. [dec] is the module number, and [hex] is debugging information.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-4-SYS_LCPERR4:Module [dec]: RChip Port#[dec] Boc Header Crc Error

Explanation This message indicates an error for a specified port. The module has detected an error in the RChip ASIC. This message is a debugging message for Cisco development purposes. The first [dec] is the module number. The second [dec] is the front panel port.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-4-SYS_LCPERR4:Module [dec]: RChip Port#[dec] Nic Fifo Error, Info=[hex]

Explanation This message indicates an error for a specified port. The module has detected an error in the RChip ASIC. This message is a debug message for Cisco development purposes. The first [dec] is the module number, and the second [dec] is the front panel port. [hex] is debugging information.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

SYS-5

Error Message SYS-5-CFG_FLASH_CONFIGSYNCFINISH: Active supervisor has synchronized config file [chars]

Explanation This message indicates that the active supervisor engine has finished synchronizing the configuration file. [chars] is the name of the configuration file.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-CFG_FLASH_CONFIGSYNCSTART: Active supervisor is synchronizing config file [chars]

Explanation This message indicates that the active supervisor engine is currently synchronizing the configuration file. [chars] is the name of the configuration file.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-CFG_FLASH_FILEDELSBY: File [chars] deleted from the standby supervisor

Explanation This message indicates that a configuration file has been deleted from the redundant supervisor engine. [chars] is the name of the deleted file.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-CHASSIS_NOT_SUPPORTED: chassis not supported in current image

Explanation This message indicates that the software image has determined that the chassis is not supported.

Recommended Action Contact your technical support representative.

Error Message SYS-5-EOBC_CHANNELREINIT: Ethernet out of band channel reinitialized [dec]

Explanation This message indicates that the EOBC transmit channel, used to communicate between modules, has encountered an abnormal collision and was then reinitialized to clear the collision. [dec] is the number of times this error has occurred.

Recommended Action Contact your technical support representative.

Error Message SYS-5-EOBC_MODULEDOWNUP: Ethernet out of band channel reenabled power to module [dec]

Explanation This message indicates that the system is powering up modules previously powered down when the system attempted to isolate the cause of the abnormal collisions on the EOBC transmit channel. [dec] is the module currently being powered up.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-ERRBRDPRES: Erroneous Boards Present message has been received

Explanation This message indicates that the NMP received an invalid “board present” message from the MCP. The NMP ignores the message, so there is no effect to the system.

Recommended Action No action is necessary. This message is provided for information only. You can enter the **show log** command to obtain a display of the erroneous message.

Error Message SYS-5-FAB-BUSMODERESSET: Switch Fabric module [dec] reset to change mode

Explanation This message indicates that the Switch Fabric Module crossbar fabric has changed from not fail-over at all to the bus mode to fail over to the bus mode. [dec] is the Switch Fabric Module number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-FAB_CHANNELINSYNC: Fabric channel LC [dec] chan [dec] to FAB [dec], chan [dec] is now in sync

Explanation This message indicates that the fabric channel to a module has been synchronized. The first [dec] is the module number, the second [dec] is the fabric channel number, the third [dec] is the second module number, and the fourth [dec] is the second fabric channel number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-FAB_SM_FORCE_BUS_MODE: Power cycling service module in slot [dec] to force to bus mode

Explanation This message indicates that the **fabric switching-mode force busmode** command has been applied. [dec] is the slot number of the service module.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS_5_FAN_INSERT: Fan [dec] has been inserted

Explanation This message indicates that a fan tray has been inserted in the chassis. [dec] is the fan tray number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-FAN_REMOVE: Fan [dec] has been removed

Explanation This message indicates that a fan tray has been removed from the chassis. [dec] is the fan tray number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-FIFOBUS_WARN: Bus FIFO overflow detected again. FIFO thresholds already set to a lower value.

Explanation This message indicates that a switching module receives FIFO overflow errors even after lowering the FIFO threshold register values.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-LINK_FLEXLINKBLOCKING: Port [dec]/[dec] has become flexlink standby

Explanation This message indicates that a port in a Flex Links pair has become a standby port. No data traffic should go through this port. [dec]/[dec] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-LINK_FLEXLINKDOWN: Port [dec]/[dec] flexlink link down

Explanation This message indicates that a port in a Flex Links pair is not operational. [dec]/[dec] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-LINK_FLEXLINKFORWARDING: Port [dec]/[dec] has become flexlink active

Explanation This message indicates that a port in a Flex Links pair has become an active link. All traffic should be going through this port. [dec]/[dec] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-MOD_1SEC: Power devices connected to ports on module [dec] will come up within 1 sec

Explanation This message indicates that the module has sufficient local pool power allocated from the power manager to immediately power up the system-powered device (IP phone). The device will come up within one second following device discovery. [dec] is the module number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-MOD_BOOTROMUPGRADEDONE: Download boot image completed on module [dec]. Module will reset.

Explanation This message indicates that a new version of the boot ROM image has been downloaded to the module. The module will reset after the download is complete. [dec] is the module number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-MOD_DCPWRMISMATCH: Module [dec] DC power failure detected during polling

Explanation This message indicates that during normal polling, the supervisor engine has detected a problem in the power management circuitry on one of the modules. The module will not be polled again after the failure is detected. [dec] is the module number.

Recommended Action Contact your technical support representative.

Error Message SYS-5-MOD_DCPWRMISMATCH_RECOVER: Module [dec] recovered from DC power mismatch failure

Explanation This message indicates that the module just recovered from a power management circuitry failure (MOD_DCPWRMISMATCH) and the module is being polled.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-MOD_DNLDFAIL: Download failed for module [dec]

Explanation This message indicates that the code download failed for a particular module. [dec] is the module number.

Recommended Action Reset the module, and try to reload the code. Contact your technical support representative.

Error Message SYS-5-MOD_INSERT: Module [dec] has been inserted

Explanation This message indicates that a module was inserted. [dec] is the module number.

Recommended Action If a module is inserted and the message does not appear, this might indicate a problem. Enter the **show module** or **show port mod_num/port_num** command to verify that the system has acknowledged the module and brought it online. If not, contact your technical support representative.

Error Message SYS-5-MOD_ILPWR_OK: Module [dec] inline power allocated is within the threshold limit. Threshold: [dec] Watts, Usage: [dec] Watts

Explanation This message indicates that the total inline power that has been allocated for ports on a module has dropped below the threshold limit. The first [dec] is the module number, the second [dec] is the threshold, and the third [dec] is the power usage in watts.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-MOD_ILPWR_OVERTHRESHOLD: Module [dec] inline power allocated exceeds threshold. Threshold: [dec] Watts, Usage: [dec] Watts

Explanation This message indicates that the total inline power has exceeded the threshold that has been allocated for the ports on a module. The first [dec] is the module number, the second [dec] is the threshold, and the third [dec] is the power usage in Watts.

Recommended Action Check the configuration and make sure that there are no unknown devices on the network that are using additional power. If no unknown devices exist, consider changing the threshold configuration so that this message will not continue to appear.

Error Message SYS-5-MOD_NO1SEC: Power devices connected to ports on module [dec] may not come up within 1 sec, not enough power in the system

Explanation This message indicates that the local pool of power that was allocated to the module by the power manager is not sufficient to power up a system-powered device (IP phone). In this situation, the module cannot independently and immediately power up the device. Instead, the module notifies the power manager of the device discovery and then must wait for the power manager to determine if there is sufficient system power to power up the device and allocate that power to the module. This process can take longer than one second.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-MOD_NOREGISTRATION: No registration received from module [dec]... resetting module

Explanation This message indicates that a registration message from the module to the supervisor engine did not occur within 30 seconds after the supervisor engine detected the module in the chassis. The supervisor engine resets the module. [dec] is the module number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-MOD_NORESETACK: Module [dec] not responding... resetting module

Explanation This message indicates that the supervisor engine or the NMP did not receive an acknowledgment from the module after it began executing its runtime code. This message comes in every 3 minutes. The module is reset each time. At the end of 9 minutes, a failure is declared. [dec] is the module number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-MOD_NORESPONSE: Module [dec] failed to respond

Explanation This message indicates that after three resets, the module failed to send a reset acknowledgment to the NMP. A failure is declared for the module. [dec] is the module number.

Recommended Action Contact your technical support representative.

Error Message SYS-5-MOD_NOSCPINGRESPONSE: Module [dec] not responding... resetting module

Explanation This message indicates that after three attempts to poll a module, the module has failed to respond back to the supervisor engine. [dec] is the module number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-MOD_NOTSUPPORTED: Module [dec] is not supported

Explanation This message indicates that a module with an invalid feature ID has been inserted into the system. [dec] is the slot number where the module was inserted.

Recommended Action Remove the module from the indicated slot and replace it.

Error Message SYS-5-MOD_OK: Module [dec] is online

Explanation This message indicates that the module passed the diagnostic self-test and is online. [dec] is the module number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-MOD_PASSWDCLR: Module [dec] password cleared from [chars]

Explanation This message indicates that the module password is cleared. The username or the user identifier who cleared the password also is identified. [dec] is the module number, and [chars] is where the password was cleared from. The password can be cleared from either Telnet, console, or SNMP.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-MOD_POWERDENY: Module [dec] inserted, but not powered up as power to slot is disabled in the configuration.

Explanation This message indicates that a switching module has been inserted into a power-denied slot. When this situation occurs, the module will not be powered on, so it will not come online. [dec] is the module number of the module that has been inserted into a power-denied slot.

Recommended Action Insert the module into a slot that is not power denied, and enter the **set module power up [dec]** command to bring the module online.

Error Message SYS-5-MOD_PROGSTAT: Module [dec] flash programming [chars]

Explanation This message indicates the Flash programming status for the intelligent modules. [dec] is the module number, and [chars] is the status, which can be either *complete* or *failed*.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-MOD_PWRDENY: Power denied to module [dec]

Explanation This message indicates that a module cannot be powered up because there is insufficient power supply capacity available. The supervisor engine monitors the power consumption of the modules during boot. As the supervisor engine attempts to power up a module, it compares the module power needs with the remaining capacity of the power supply. If there is not enough power supply capacity remaining, the supervisor engine will not power up the module. [dec] is the module number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-MOD_PWRDN: Module [dec] powered down

Explanation This message indicates that the module has powered down. [dec] is the module number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-MOD_PWRMISMATCH: Module [dec] SW/HW power status mismatch

Explanation This message indicates that a mismatch has been detected by the supervisor engine between the power management hardware registers and the software registers. Every 300 milliseconds, the supervisor engine software performs a power management check between the software and the hardware. When a mismatch is detected, this message is generated. [dec] is the module number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-MOD_PWRON: Module [dec] powered up

Explanation This message indicates that the module has powered up. [dec] is the module number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-MOD_REMOVE: Module [dec] has been removed

Explanation This message indicates that a module was removed. [dec] is the module number.

Recommended Action No action is necessary. This message is provided for information only. If a module is removed and the message does not appear, this might indicate a problem. Enter the **show port mod_num/port_num** command to query the module. The system should respond with this message:

Module n is not installed.

If you do not see this response, contact your technical support representative.

Error Message SYS-5-MOD_RESET: Module [dec] reset from [chars]

Explanation This message indicates that the module was reset from a specified requestor. [dec] is the module number, and [chars] could be a console number if the request is from a console session or an IP address if the request is from a Telnet session or SNMP.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-MOD_RMVDNLDSTOP: Download terminated for module [dec]. Module removed

Explanation This message indicates that during a code download, the module was removed. [dec] is the module number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-P2_LogGalOverheatingOver: Resuming normal operation after return to acceptable temperatures

Explanation This message indicates that the system modules have been reset to reduce heat generation because the unit was exceeding critical temperature. The unit temperature has returned to an acceptable level, and normal operation is resuming.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-P2_LogGalSufficientFansRestored: Resuming normal operation after restoration of adequate fan cooling

Explanation This message indicates that the system modules have been reset to reduce heat generation due to an insufficient number of operational fans. Adequate fan cooling has been restored, and normal operation is resuming.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-P2_LogGalSufficientPowerRestored: Resuming normal operation after restoration of adequate power

Explanation This message indicates that the system modules have been reset to save power due to the lack of the required number of power supplies. Adequate power has been restored, and normal operation is resuming.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-P2_LogPimFlapShutdown: Temporarily disabling port [chars] due to flap

Explanation This message indicates that the port link is alternately going up and down in rapid succession. This is usually the result of a bad connection or problems with the link-level hardware. To prevent this from impacting performance, the problem port is shut down. Every five seconds, the port is reenabled to see if the problem has gone away. If not, the port is shut down until the problem is corrected. [chars] is the number of the port.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-PKTCAP_RESUME: Packet capture session resumed as cpu util is down to [dec]

Explanation This message indicates that a packet capture session has resumed after being suspended. The packet capture session was suspended when the CPU utilization reached 70 percent. The packet capture session resumes when CPU utilization drops below 30 percent. [dec] is the CPU utilization when the session resumes.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-PKTCAP_START: Packet capture session active

Explanation This message indicates that the packet capture process has been started and is running. This message is generated when the user enters the **set packet-capture start** command.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-PKTCAP_STOPFLASH: Packet capture session ended as the flash device is full

Explanation This message indicates that the packet capture process has stopped capturing packets because the flash device on which it was writing packets is full.

Recommended Action Check the dump file and make any necessary changes.

Error Message SYS-5-PKTCAP_STOPPKT: Packet capture session ended after capturing [dec] packets

Explanation This message indicates that packet capture has stopped after capturing a number of packets. The limit is set by the **set packet-capture limit** command. [dec] is the number of packets.

Recommended Action Check the dump file and make any necessary changes.

Error Message SYS-5-PKTCAP_STOPUSER: Packet capture session ended at the user's request

Explanation This message indicates that the packet-capture task is active and the user ends the task by entering the **set packet-capture stop** command. This will stop the packet-capture process.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-PKTCAP_SUSPEND: Packet capture session suspended as cpu util hit [dec]

Explanation This message indicates that a packet-capture session is running, and the PU utilization for the last five seconds goes beyond 70 percent. The purpose of this message is to help ensure that you do not run a packet capture session when CPU utilization is high. [dec] is the CPU utilization at the time the session was suspended.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-PKTTESTDONE: Packetbuffer test done. Use 'show test' to see test results

Explanation This message indicates that the packet buffer test is complete. Use the **show test** command to display the test results.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-PKTTESTSTART: Packet buffer test started

Explanation This message indicates that the packet buffer test has started.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-PORT_SSUPOK: Ports on standby supervisor (module [dec]) are up

Explanation This message indicates that the ports on the redundant supervisor engine are up on systems equipped with redundant supervisor engines. [dec] is the module number. This message occurs when the system is powered up or reset.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-PRF_FLASH_FILEDELSBY: Profile file [chars] deleted from the standby supervisor

Explanation This message indicates that the profile file has been deleted from the standby supervisor engine.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-PS_INSERT: Power supply [dec] has been inserted

Explanation This message indicates that a power supply has been inserted in the chassis. [dec] is the power supply number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-PS_NOTSUPP: Power supply type present is not supported by this system

Explanation This message indicates that a power supply which is not supported by the chassis has been installed in the system.

Recommended Action Check the power supplies that are installed in the chassis to ensure that they are supported by your chassis.

Error Message SYS-5-PS_NOTSUPPORTED: Power supply [dec] is not supported by this system

Explanation This message indicates that an unsupported power supply is installed in the switch. The 8700-W power supply is not supported. [dec] refers to the power supply slot number (1 or 2).

Recommended Action Remove the 8700-W power supply and replace it with a supported power supply.

Error Message SYS-5-PS_REMOVE: Power supply [dec] has been removed

Explanation This message indicates that a power supply has been removed from the chassis. [dec] is the power supply number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-REDUNDANTCLOCK_FAIL: Redundant clock failed

Explanation This message indicates that the redundant (standby) clock has failed, which prevents a clock switchover from the primary clock to the redundant clock.

Recommended Action Contact your technical support representative.

Error Message SYS-5-REDUNDANTCLOCK_OK: Redundant clock recovered

Explanation This message indicates that the redundant (standby) clock has recovered from an error. A clock switchover from the primary clock to the redundant clock can occur.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-RTE_DEFGATEFROM: Default Gateway switching from [chars]

Explanation This message indicates that the default IP gateway has failed. [chars] is the name of the IP gateway.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-RTE_DEFGATETO: Default Gateway switching to [chars]

Explanation This message indicates that the IP gateway is the new default IP gateway. [chars] is the name of the gateway.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-SPAN_ADMINPORTDEL: Admin ports delteded for [chars] session for [chars]

Explanation This message indicates that one or more ports are being removed from the admin ports list of a session. The first [chars] specifies the local or remote SPAN session, the second [chars] specifies the destination port or RSPAN VLAN. This error might occur when a module is removed and replaced with a module of a different type.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-SPAN_CFGFAIL: Failed to configure source port [dec/dec]

Explanation This message indicates that the SPAN feature is not supported on the source module. [dec/dec] is the module number/port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-SPAN_CFGSTATECHG: [chars] session [chars]active for [chars]

Explanation This message indicates that a session has been active or inactive. The first [chars] specifies local or remote SPAN session, the second [chars] is for active or inactive, and the third [chars] specifies the destination port or RSPAN VLAN. This message will be generated every time the destination port comes up or goes down.

Recommended Action Check for link flapping errors on the SPAN destination port.

Error Message SYS-5-SPAN_NOADMINPORTS: No admin ports: [chars] session disabled for [chars]

Explanation This message indicates that a session has been disabled as the admin port list becomes empty. This error might occur when a module is removed and replaced with a module of a different type. The first [chars] specifies the local or remote SPAN session, and the second [chars] specifies the destination port or the RSPAN VLAN.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-SPAN_NOADMINVLANS: No admin vlans: [chars] session disabled for [chars]

Explanation This message indicates that a session has been disabled as the admin VLAN list becomes empty. This error might occur when a module is removed and replaced with a module of a different type. The first [chars] specifies the local or remote SPAN session, and the second [chars] specifies the destination port or RSPAN VLAN.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-SPAN_NOFILTERVLANS: No filter vlans: [chars] session disabled for [chars]

Explanation This message indicates that a session has been disabled as the filter VLAN list became empty. This error might occur when one or more VLANs are cleared. The first [chars] specifies either local or remote SPAN session, and the second [chars] specifies the destination port or RSPAN VLAN.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-SPAN_SRCMODCFGFAIL:Failed to configure source module [dec]

Explanation This message indicates that ports on the module could not be configured as SPAN source ports. [dec] is the module number.

Recommended Action Verify whether the module specified in the message supports the SPAN feature or not. Contact your technical support representative.

Error Message SYS-5-SPAN_SRCPORTCFGFAIL: Failed to configure source port [dec]/[dec]

Explanation This message indicates that the port could not be configured as a SPAN source port. [dec]/[dec] is the module number/port number.

Recommended Action Verify whether the module specified in the message supports the SPAN feature or not. Contact your technical support representative.

Error Message SYS-5-SUP_BOOTSYNCFINISH: Supervisor's boot images are synchronized

Explanation This message indicates that the supervisor engine finished synchronizing the BOOT images.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-SUP_CHASSISMISMATCH: Supervisor does not support the current chassis

Explanation This message indicates that the supervisor engine is not supported in the chassis.

Explanation Check the hardware software compatibility matrix in the release notes.

Error Message SYS-5-SUP_CONFIGSYNCFINISH: Active supervisor has [chars] the Config File

Explanation This message indicates that the active supervisor engine has either finished copying or synchronizing the configuration file. [chars] is either copied or synchronized.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-SUP_CONFIGSYNCFINISH: Active supervisor is [chars] the Config File

Explanation This message indicates that the active supervisor engine is starting to either copy or synchronize the configuration file. [chars] is either copying or synchronizing.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-SUP_FILENOTFOUND: File [chars] not found.

Explanation This message indicates that the system could not find a file. [chars] is the filename.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-SUP_HASWOVER: Supervisor becoming active (HA switchover)

Explanation This message indicates that the redundant supervisor engine is becoming active after a switchover has occurred with High Availability enabled.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-SUP_HASWOVERDONE: Started switching traffic after HA switchover

Explanation This message indicates that the redundant supervisor engine has started switching packets following a supervisor engine switchover with High Availability enabled.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-SUP_IMGSYNC: File synchronization process will start in [dec] seconds

Explanation This message indicates that the file synchronization process between the active supervisor engine and the redundant supervisor engine will begin in the indicated number of seconds. [dec] is the number of seconds.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-SUP_IMGSYNCFINISH: Active supervisor has [chars] the NMP image

Explanation This message indicates that the active supervisor engine has copied or synchronized the NMP image. [chars] is *copied* or *synchronized*.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-SUP_IMGSYNCSTART: Standby supervisor is [chars] the NMP image

Explanation This message indicates that the redundant supervisor engine is copying or synchronizing the NMP image. [chars] is *copying* or *synchronizing*.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-SUP_MODNONSBY: Module [dec] is present but not in standby mode

Explanation This message appears only when using Supervisor Engine 720 modules, and only on the active Supervisor Engine 720 module. This message occurs only with systems containing redundant supervisor engines when one of the Supervisor Engine 720 modules has a problem booting up and is sent out to the ROM-based monitor (ROMMON). [dec] is the module number.

Recommended Action From the redundant supervisor engine console, boot the redundant supervisor engine manually. If the message reappears, contact your technical support representative.

Error Message SYS-5-SUP_MODSBY: Module [dec] is in standby mode

Explanation This message indicates that the module is in standby mode. [dec] is the module number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-SUP_NOINTERNALVLANAVAILABLE: No Internal Vlan Available

Explanation This message indicates that the internal VLANs required for an Optical Services Module (OSM) or a FlexWAN module are not available and as a result, the module interfaces will not come up. By default, VLAN numbers 1025 and up are assigned to OSM and FlexWAN interfaces and subinterfaces. The internal VLAN allocation fails if VLAN 1025 is assigned for user traffic.

Recommended Action If you need to use the extended VLAN for user traffic, start at VLAN 4094 and decrement down.

Error Message SYS-5-SUP_NONHASWOVER: Supervisor becoming active (non-HA switchover)

Explanation This message indicates that the supervisor engine is coming online following a non-High Availability switchover in the system.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-SUP_REDMISMATCH: Standby supervisor [dec] redundancy/power mgmt board detection mismatch

Explanation This message indicates that the redundant supervisor engine has a redundancy or power management situation. [dec] is the module number of the redundant supervisor engine.

Recommended Action Contact your technical support representative.

Error Message SYS-5-SUP_SBYHIGHPOWER: Standby drawing more power. System may run over power budget

Explanation This message indicates that the redundant supervisor engine is using more power than the active supervisor engine. A fully configured system could draw more power than the power supply rating. The active supervisor engine normally reserves the same amount of power that is reserved for the redundant supervisor engine. If the redundant supervisor engine uses more power than the active supervisor engine, the power requirement could exceed the rated power available.

Recommended Action Contact your technical support representative.

Error Message SYS-5-SUP_SBYLOWPOWER: Standby drawing less power. Potential power budget violation at switchover

Explanation This message indicates that the redundant supervisor engine is using less power than the active supervisor engine. If the system is fully configured and a switchover from an active to redundant supervisor engine occurs, the power requirements might exceed the power supply ratings.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-SYS_HITRFC: [dec] traffic load exceeded threshold on switching bus

Explanation This message indicates that the traffic load on the switching bus has exceeded the customer-defined level. [dec] is the load level detected on the switching bus.

Recommended Action Take action as necessary to reduce the traffic load on the switching bus.

Error Message SYS-5-SYS_HITRFC3: [dec] traffic load exceeded threshold on switching bus [chars]

Explanation This message indicates that the traffic load on one of the switching buses has exceeded the customer-defined level. [dec] is the load level detected on the switching bus, and [chars] is the overloaded switching bus.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-SYSINFOLOG_DNLD: TFTP session in progress, Task [chars], pid [dec] is downloading

Explanation This message indicates that the system resources are being used by some process other than the system information logging process. Because the system information logging process is a continual process, it does not copy during this interval; the process will resume copying during the next interval. [chars] and [dec] are the process name and process ID which is utilizing the resources.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-SYSINFOLOG_DONE: Successfully copied the system information the file [chars] on the server

Explanation This message indicates that the system information was successfully copied to a file. [chars] is the filename.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-SYSINFOLOG_NOFILE: No destination file is set

Explanation This message indicates that the system information logging feature is enabled but the destination file where the logging output is copied to is not specified.

Recommended Action You must configure the destination filename before enabling the system information logging feature.

Error Message SYS-5-SYS_INSUFFPWR: Insufficient power available for current configuration

Explanation This message indicates that the current module configuration in the chassis cannot be supported by the power supplies that are installed in the chassis.

Recommended Action Either remove some of the modules from the chassis or upgrade the power supply to one with a higher wattage rating.

Error Message SYS-5-SYS_LCPERR5:Module [dec]: Coil Mdtif Packet CRC Error - Port #[dec]

Explanation This message indicates an error in the port ASIC. The first [dec] is the module number, and the second [dec] is the ASIC port number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-5-SYS_LCPERR5:Module [dec]: Coil Mdtif CPU Interface State Machine Error - Port #[dec]

Explanation This message indicates an error in the port ASIC. The first [dec] is the module number, and the second [dec] is the ASIC port number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-5-SYS_LCPERR5:Module [dec]: Coil Pinnacle Header Checksum Error - Port #[dec]

Explanation This message indicates an error in the port ASIC. The first [dec] is the module number, and the second [dec] is the ASIC port number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-5-SYS_LCPERR5:Module [dec]: QChip Bic Length Mismatch Error

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-5-SYS_LCPERR5:Module [dec]: QChip Packet Filter Payload Crc Error

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-5-SYS_LCPERR5:Module [dec]: QChip Port#[dec] Noc Header Crc Error

Explanation This message indicates an error for a specified port. The module has detected a header CRC error in the QChip ASIC. This is a debugging message for Cisco development purposes. The first [dec] is the module number, and the second [dec] is the front panel port.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-5-SYS_RESET: System reset from [chars]

Explanation This message indicates that the system was reset from a specified session. [chars] could be a console number if the request is from a console session or an IP address if the request is from a Telnet session or SNMP.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-SYS_TIMECHNG: System time has changed to due to summertime

Explanation This message indicates that the system has switched to daylight saving time.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-TELNET_KILLED: Telnet Daemon killed

Explanation This message indicates that the Telnet daemon stopped after you entered the **set ip telnet server disable** command. You will not be able to run the Telnet connection to the switch.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-5-TELNET_STARTED: Telnet Daemon Started

Explanation This message indicates that the Telnet daemon is initiated after you entered the **set ip telnet server enabled** command. You can run the Telnet connection to the switch.

Recommended Action No action is necessary. This message is provided for information only.

SYS-6

Error Message SYS-6-AUTOSAVE: [chars]

Explanation This message indicates that the system configuration is being written to NVRAM when the auto-save timer times out. This message occurs only when the configuration contents are being written to NVRAM and the auto-save feature is enabled. [chars] is the following message:

Writing to nvram on timer expiry.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-6-CFG_CHG: [chars]

Explanation This message indicates that the configuration block has been modified. The message also provides the user name of the person who modified the configuration when the user name is authenticated.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-6-MOD_INVALIDSEQ: Bus ASIC invalid sequence occurred on module [dec] (asic=[dec], srcidx=0x[hex], seq=[dec])

Explanation This message indicates that an invalid sequence number has been logged by the system. When a module carrying traffic is removed or reset, or experiences online insertion and removal, an invalid data sequence number may be generated. The switch takes corrective action and generates this message. Module [dec] is the module number, ASIC [dec] is the ASIC number, srcidx [dec] is the source index number, and seq [dec] is the invalid data sequence number.

Recommended Action No action is necessary. This message is provided for information only. However, if you feel that you are receiving these messages without the module being reset, contact your technical support representative.

Error Message SYS-6-MOD_SEQMISMATCH: Bus ASIC sequence mismatch occurred on module [dec] (asic=[dec], srcidx=0x[hex], seq=[dec])

Explanation This message indicates that the received sequence number does not match the expected sequence number. When a module carrying traffic is removed or reset, or experiences online insertion and removal, a sequence number mismatch may be generated. The switch takes corrective action and generates this message. Module [dec] is the module number, ASIC [dec] is the ASIC number, srcidx [dec] is the source index number, and seq [dec] is the mismatched data sequence number.

Recommended Action No action is necessary. This message is provided for information only. However, if you feel that you are receiving these messages without the module being reset, contact your technical support representative.

Error Message SYS-6-PORT_ERR: Port [chars] [chars] [hex]

Explanation This message indicates that there was an error detected on a port. The first [chars] is the module number/port number, the second [chars] is the counter name, and [hex] is the counter value.

Recommended Action Contact your technical support representative.

Error Message SYS-6-PORT_INLINEPWRFLTY: Port [dec]/[dec] reporting inline power as faulty

Explanation This message indicates that an IP phone is reporting a problem with the inline power it is receiving on a port. [dec]/[dec] is the module number and port number the IP phone is attached to.

Recommended Action You may need to replace the inline power daughter card on the voice module.

Error Message SYS-6-SUP_OSBOOTSTATUS: [chars]

Explanation This message indicates that a command failed to execute completely. [chars] describes the command.

Recommended Action Contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: Coil Tx got stuck and restart at Port [dec]

Explanation This is a debugging message for Cisco development purposes. The first [dec] is the module number, and the second [dec] is the front panel port number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: Pentamak Ddr Sync Error

Explanation This message indicates that the module has a port that received an error in the Double Date Rate (DDR) checker. [dec] is the module number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: QChip Cpu State Machine Error, Info=[hex]

Explanation This is a debugging message for Cisco development purposes. The [dec] is the module number, and the [hex] is the state machine information.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: QChip Packet Filter Do Not Forward Error

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: QChip Packet Filter Header Crc Error

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: QChip Port#[dec] Noc Payload Crc Error

Explanation This message indicates an error for a specified port. The module detected a payload CRC error in the QChip ASIC. This is a debugging message for Cisco development purposes. The first [dec] is the module number, and the second [dec] is the front panel port.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: RChip Cpu State Machine Error, Info=[hex]

Explanation This message indicates that the module detected an error related to the RChip ASIC. This is a debugging message for Cisco development purposes. The [dec] is the module number, and the [hex] is debugging information.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: RChip Ddr Sync Error

Explanation This message indicates that the module has detected an error related to the RChip ASIC. This is a debugging message for Cisco development purposes. [dec] is the module number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: RChip Port#[dec] Boc Payload Crc Error

Explanation This message indicates an error for a specified port. The module detected an error in the RChip ASIC. This is a debugging message for Cisco development purposes. The first [dec] is the module number, and the second [dec] is the front panel port.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: RChip Port#[dec] Nic Header Crc Error

Explanation This message indicates an error for a specified port. The module detected an error in the RChip ASIC. This is a debugging message for Cisco development purposes. The first [dec] is the module number, and the second [dec] is the front panel port.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: RChip Port#[dec] Nic Length Error

Explanation This message indicates an error for a specified port. The module detected an error in the RChip ASIC. This is a debugging message for Cisco development purposes. The first [dec] is the module number, and the second [dec] is the front panel port.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: RChip Port#[dec] Nic Sequence Error, Info=[hex]

Explanation This message indicates an error for a specified port. The module detected an error in the RChip ASIC. This is a debugging message for Cisco development purposes. The first [dec] is the module number, and the second [dec] is the front panel port. [hex] is debugging information.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: RChip Rxmm Over Read Error

Explanation This message indicates that the module detected an error related to the RChip ASIC. This is a debugging message for Cisco development purposes. [dec] is the module number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: Sculptor Cbic Int State Machine Error

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: Sculptor Cbic State Machine Error

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: Sculptor Cbif CycStl State Machine Error

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: Sculptor Cboc Header CRC Error

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: Sculptor Cboc State Machine Error

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: Sculptor Cboc Packet Length Error

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: Sculptor CpGen State Machine Error

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: Sculptor Pl1 Tune State Machine Error

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: Sculptor Rwen Error

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: Sculptor Rxpr State Machine Error

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: Sculptor Rxwr State Machine Error

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: Sculptor Tbwr Sequence Error

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: Sculptor Tbwr State Machine Error

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: Sculptor Txif Dbus Header CRC Error

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: Sculptor Txif Packet Length Error

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: Sculptor Txif Sequence Error

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

Error Message SYS-6-SYS_LCPERR6:Module [dec]: Sculptor Txif State Machine Error

Explanation This is a debugging message for Cisco development purposes. [dec] is the module number.

Recommended Action If the error is limited to a single module, replace the module. If the error occurs several times, contact your technical support representative.

SYS-7

Error Message SYS-7-FAB_DISABLECHANNEL: Disabling fabric channels for module [dec] during switchover

Explanation This message indicates that a module fabric channel was disabled during the switchover process. [dec] is the module number.

Recommended Action Contact your technical support representative.

Error Message SYS-7-LLC_TUNNEL: Tunnel-[chars] ([dec]) ([chars], vlan [dec], proto [hex])

Explanation This is a debug message for Cisco development purposes.

Recommended Action No action is necessary. This message is provided for information only.

TAC Messages

This section contains the Catalyst 6500 series switch TACACS+ messages.

TAC-2

Error Message TAC-2-DROPPKT: Accounting queue is full. Some accounting events may not be logged

Explanation This message indicates that there are too many accounting packets queued to be sent out. The queue limit is set to 1000 accounting packets. Once the limit is reached, no additional packets will be queued. This message will appear only once for every 500 accounting packets dropped.

Recommended Action Check your accounting server connection and slow down the accounting activity.

Error Message TAC-2-NOADDR: No TACACS server defined

Explanation This message indicates that the switch could not contact a TACACS+ server because no TACACS+ server was defined.

Recommended Action Set a TACACS+ server address from the switch.

Error Message TAC-2-SRVRNORESP: Unable to contact TACACS server

Explanation This message indicates that the switch did not receive a response from the TACACS+ server.

Recommended Action Verify that the TACACS+ server address is set correctly and that the server is up and running.

TAC-7

Error Message TAC-7-BADADDR: Address not configured as a Server

Explanation This message indicates that the TACACS+ address is not configured as a server.

Recommended Action Configure the TACACS+ address as a TACACS+ server.

Error Message TAC-7-BADDATA: Received unsane data from server

Explanation This message indicates that data received from the server is not recognized.

Recommended Action Retry the connection. If this message reappears, contact your technical support representative.

Error Message TAC-7-BADLEN1: Received bad packet: length = [dec]

Explanation This message indicates that a faulty packet was received. The length = [dec] is the faulty packet length.

Recommended Action Retry the operation. If this message reappears, contact your technical support representative.

Error Message TAC-7-BADLEN2: Received bad packet: length = [dec], expected [dec]

Explanation This message indicates that a faulty packet was received. The length = [dec] is the faulty packet length and the second [dec] is the expected length.

Recommended Action Retry the operation. If this message reappears, contact your technical support representative.

Error Message TAC-7-BADSESS: Received packet with bad session id

Explanation This message indicates that a packet with a faulty session ID was received.

Recommended Action Retry the operation. If this message reappears, contact your technical support representative.

Error Message TAC-7-BADVER: Received packet with bad version

Explanation This message indicates that a packet with a faulty version was received.

Recommended Action Check the version of server software; upgrade if necessary.

Error Message TAC-7-CONNERR: Socket connection error to [integer]

Explanation This message indicates that a faulty network connection error occurred with a server. [integer] is the server address.

Recommended Action Retry the connection. If this message reappears, perform these steps, retrying the connection after each step:

-
- Step 1** Check the interface setup. If the interface is faulty, reconfigure the interface setup and retry the connection; if the interface is operational, proceed to the next step.
 - Step 2** Check the network connection. If the connection is faulty, repair it. If the connection is operational, contact your technical support representative.
 - Step 3** Check the server operation; if the server is faulty, contact your technical support representative. If the server is operational, contact your technical support representative.
-

Error Message TAC-7-DECRYPTERR1: Decrypt: no key for encrypted packet

Explanation This message indicates that the packet is encrypted but a key is not available.

Recommended Action Configure the correct key.

Error Message TAC-7-DECRYPTERR2: Decrypt: packet is unencrypted but we have a key

Explanation This message indicates that the packet is unencrypted but a key is available.

Recommended Action Remove the key.

Error Message TAC-7-PAKSENDERR: Error sending continue packet

Explanation This message indicates that the system is unable to send TACACS+ packets to the server.

Recommended Action Verify that the TACACS+ server is online. If not, bring the TACACS+ server online. If the TACACS+ server is online, contact your technical support representative.

Error Message TAC-7-SOCKERR: Socket creation error

Explanation This message indicates that a faulty network connection error occurred.

Recommended Action Retry the connection. If this message reappears, perform these steps, retrying the connection after each step:

-
- Step 1** Check the interface setup. If the interface is faulty, reconfigure the interface setup and retry the connection; if the interface is operational, proceed to the next step.
 - Step 2** Check the network connection. If the connection is faulty, repair it. If the connection is operational, contact your technical support representative.
 - Step 3** Check the server operation; if the server is faulty, contact your technical support representative. If the server is operational, contact your technical support representative.
-

TCP Messages

This section contains the TCP messages.

TCP-2

Error Message TCP-2-TCP_MAXESTABLISHED: Possible TCP ACK attack. Maximum established

Explanation The system counts the number of simultaneous open connections in SYN or EST states. When the count has exceeded the threshold, the system detects that it is under a denial of service attack, and this syslog message appears.

Recommended Action Close traffic on the management port, and determine the source of the denial of service attack.

TCP-4

Error Message TCP-4-MAXCONNRATE: Possible TCP attack - [dec] TCP connections per minute exceeded. Last connection from [chars]

Explanation This message indicates that there is a TCP/IP attack on the switch (denial of service). There is a rate limit on the number of connections that can be established per minute. This message comes up once the limit is exceeded.

Recommended Action Close traffic on the management port, and determine the source of the denial of service attack.

UDLD Protocol Messages

This section lists the UniDirectional Link Detection (UDLD) Protocol messages.

UDLD-3

Error Message UDLD-3-AGGRDISABLE: Neighbor(s) of port [dec]/[dec] disappeared on bidirectional link. Port disabled

Explanation This message indicates that a fault has been detected in an Ethernet port connection and that the port has been disabled to prevent other protocols from malfunctioning. The heartbeat packets on a bidirectional link have stopped, and, as a precaution, the port has been disabled to prevent a spanning tree loop. [dec]/[dec] is the module number/port number.

Recommended Action Verify that all of the fiber strand pairs or copper wire pairs are connected correctly and that the Tx and Rx fiber connectors are bundled together. Also check that the port is functioning normally and that the hardware counters are operating properly. If no apparent misconnection or malfunction is found, try reenabling the port and disabling the aggressive mode. Make sure that the port is not connected to a hub, media converter, or similar device.

Error Message UDLD-3-AGGRDISABLEFAIL:Neighbor(s) of port [dec]/[dec] disappeared on bidirectional link. Failed to disable port

Explanation This message indicates that a fault was detected in the wiring on an Ethernet port, but that UDLD could not disable the port. [dec]/[dec] is the module number/port number.

Recommended Action Verify that all of the fiber strand pairs or copper wire pairs are connected correctly and that the Tx and Rx fiber connectors are bundled together. Also verify that the port is functioning correctly and that the hardware counters are operating properly. If no apparent misconnection or malfunction is found, try disabling aggressive mode. Contact your technical support representative.

Error Message UDLD-3-DISABLE: Unidirectional link detected on port [dec]/[dec]. Port disabled

Explanation This message indicates that a fault has been detected in an Ethernet port connection and that the port has been disabled to prevent other protocols from malfunctioning. [dec]/[dec] is the module number/port number.

Recommended Action Verify that all of the fiber strand pairs or copper wire pairs are connected correctly and that the Tx and Rx fiber connectors are bundled together. Also check that the port is functioning normally. If no apparent misconnection or malfunction is found, try reenabling the port.

Error Message UDLD-3-DISABLEFAIL: Unidirectional link detected on port [dec]/[dec], failed to disable port

Explanation This message indicates that a fault was detected in the wiring on an Ethernet port, but UDLD could not disable the port. [dec]/[dec] is the module number/port number.

Recommended Action Verify that all of the fiber strand pairs or copper wire pairs are connected correctly and that the Tx and Rx fiber connectors are bundled together. Also check that the port is functioning correctly. Contact your technical support representative.

Error Message UDLD-3-SENDFAIL: Transmit failure on port [dec]/[dec]

Explanation This message indicates that a transmit failure occurred on a specified port. [dec]/[dec] is the module number/port number. This error can appear if the CPU is too busy to hand off the packet in time or the port is too busy to transmit the packet out to the network.

Recommended Action Check the performance of the specified port and CPU. For more information, contact your technical support representative.

UDLD-4

Error Message UDLD-4-MULTINEIGHBORS: Multiple UDLD neighbors on port [dec]/[dec]

Explanation This message indicates that a second neighbor is on the same UDLD port. [dec]/[dec] is the module number/port number.

Recommended Action Make sure that the link is a point-to-point connection.

Error Message UDLD-4-ONEWAYPATH: A unidirectional link from port [dec]/[dec] to port [dec]/[dec] of device [chars] was detected

Explanation This message indicates that a fault has been detected in an Ethernet connection in a shared media environment and that the connection may cause a possible malfunction. [dec]/[dec] are the module numbers/port numbers and [chars] is the CDP name of the neighbor. To find the name, enter the **show cdp neighbor** command.

Recommended Action Verify that all of the fiber strand or copper wire pairs are connected correctly (both on the local device and on the neighboring devices) and that the Tx and Rx connectors are bundled together. Also check that the ports are functioning normally. If no apparent misconnection or malfunction is found, contact your technical support representative.

UDLD-7

Error Message UDLD-7-PKTDROP: Packet dropped as UDLD is disabled on port [dec]/[dec]

Explanation This message indicates that a packet was dropped as UDLD was disabled on a specified port. [dec]/[dec] is the module number/port number.

Recommended Action Check the UDLD port status. If the port is disabled, enable it. If the port is enabled, contact your technical support representative.

VMPS Messages

This section contains the VLAN Membership Policy Server (VMPS) messages.

VMPS-2

Error Message VMPS-2-BINDFAIL: Failed to bind socket

Explanation This message indicates insufficient system resources.

Recommended Action Contact your technical support representative.

Error Message VMPS-2-DNLDFAIL: Download Failed. VMPS is now inactive

Explanation This message indicates that the attempt to download failed and VMPS is inactive.

Recommended Action No action is necessary. This message is provided for information only.

Error Message VMPS-2-DOWNLOADFAIL1: Another download in progress, try later

Explanation This message indicates that another download process is currently in progress.

Recommended Action After the other process completes, download again. If this message reappears, contact your technical support representative.

Error Message VMPS-2-DOWNLOADFAIL2: Unable to download file [chars]

Explanation This message indicates that either the Trivial File Transfer Protocol (TFTP) server is not online or the file does not exist on the server. [chars] is the VMPS filename.

Recommended Action Make sure that the server is online, and the filename and the pathname are correct and exist on the server. If any of these conditions have not been met, correct them. If the conditions are correct, contact your technical support representative.

Error Message VMPS-2-ENABLEFAIL: VMPS Enable Failed

Explanation This message indicates that the attempt to enable VMPS failed.

Recommended Action No action is necessary. This message is provided for information only.

Error Message VMPS-2-INVFILE: PARSER: Invalid File Format, syntax error at line [dec]

Explanation This message indicates that a syntax error exists at the specified line number in the configuration file. [dec] is the line number.

Recommended Action Correct the error in the configuration file. If the message reappears, contact your technical support representative.

Error Message VMPS-2-NOMEM: Out of memory

Explanation This message indicates that there is insufficient DRAM to load the VMPS configuration database.

Recommended Action Increase the DRAM on the supervisor engine. If the message reappears, contact your technical support representative.

Error Message VMPS-2-NOMGMTDOM: Management Domain not defined in configuration file

Explanation This message indicates that the management domain is not defined in the configuration file.

Recommended Action Configure the management domain name in the configuration file. If this message reappears, contact your technical support representative.

Error Message VMPS-2-NORES: Insufficient resources to build database

Explanation This message indicates that there is not enough DRAM to load the VMPS configuration database.

Recommended Action Increase the DRAM on the supervisor engine. If this message reappears, contact your technical support representative.

Error Message VMPS-2-PARSEMSG: PARSER: [dec] lines parsed, Errors [dec]

Explanation This message indicates that the VMPS parsed a specified number of lines in the configuration file and found a number of errors. [dec] lines are the number of lines parsed, and Errors [dec] are the number of errors found.

Recommended Action Correct the error in the configuration file. If the message reappears, contact your technical support representative.

Error Message VMPS-2-PREVCONF: VMPS is using the previous configuration

Explanation This message indicates that VMPS is using a previous configuration.

Recommended Action No action is necessary. This message is provided for information only.

Error Message VMPS-2-SOCFAIL: Failed to create socket

Explanation This message indicates that there are insufficient system resources.

Recommended Action Contact your technical support representative.

Error Message VMPS-2-TASKCREATFAIL: Failed to create task

Explanation This message indicates that the number of processes in the system reached the maximum limit.

Recommended Action Contact your technical support representative.

VMPS-3

Error Message VMPS-3-BADKEYWRD: PARSER: Unknown keyword [chars] at line [dec]

Explanation This message indicates that an unknown keyword exists at the specified line number in the configuration file. [chars] is the keyword, and [dec] is the line number in the configuration file.

Recommended Action Correct the error in the configuration file. If this message reappears, contact your technical support representative.

Error Message VMPS-3-DUPMAC: PARSER: Duplicate MAC addr [chars] at line [dec]

Explanation This message indicates that the VMPS parser detected a duplicate MAC address entry in the VMPS configuration file. [chars] is the duplicate MAC address, and [dec] is the line number of the duplicate MAC address in the configuration file.

Recommended Action No action is necessary. This message is provided for information only. You may optionally remove the duplicate MAC address.

Error Message VMPS-3-INVARGS: PARSER: Invalid no. of args at line [dec]

Explanation This message indicates a parsing error in the configuration file. [dec] is the line number in the configuration file.

Recommended Action Correct the error in the configuration file.

Error Message VMPS-3-INVIP: PARSER: Invalid IP addr [chars] at line [dec]

Explanation This message indicates that an invalid IP address at the specified line number exists in the configuration file. [chars] is the IP address, and [dec] is the line number in the configuration file.

Recommended Action Correct the error in the configuration file. If this message reappears, contact your technical support representative.

Error Message VMPS-3-INVMAC: PARSER: Invalid MAC addr [chars] at line [dec]

Explanation This message indicates that an invalid MAC address at the specified line number exists in the configuration file. [chars] is the MAC address, and [dec] is the line number in the configuration file.

Recommended Action Correct the error in the configuration file. If this message reappears, contact your technical support representative.

Error Message VMPS-3-INVPORTRP: PARSER: Unknown port group [chars] at line [dec]

Explanation This message indicates that an unknown port group at the specified line exists in the configuration file. [chars] is the port group number, and [dec] is the line number in the configuration file.

Recommended Action Correct the error in the configuration file. If this message reappears, contact your technical support representative.

Error Message VMPS-3-INVSYNTAX: PARSER: Invalid syntax at line [dec]

Explanation This message indicates that an invalid syntax exists at the specified line in the configuration file. [dec] is the line number in the configuration file.

Recommended Action Correct the error in the configuration file. If this message reappears, contact your technical support representative.

Error Message VMPS-3-INVVLAN: PARSER: Invalid VLAN [chars] at line [dec]

Explanation This message indicates that an invalid VLAN at the specified line exists in the configuration file. [chars] is the VLAN number, and [dec] is the line number in the configuration file.

Recommended Action Correct the error in the configuration file. If this message reappears, contact your technical support representative.

Error Message VMPS-3-INVVLGRP: PARSER: Unknown VLAN group [chars] at line [dec]

Explanation This message indicates that an unknown VLAN group at the specified line exists in the configuration file. [chars] is the VLAN group number, and [dec] is the line number in the configuration file.

Recommended Action Correct the error in the configuration file. If this message reappears, contact your technical support representative.

VMPS-7

Error Message VMPS-7-INVLEN: Invalid length [dec] for IP address

Explanation This message indicates that the server received an invalid request from the client. [dec] is the length of invalid data in the request.

Recommended Action Contact your technical support representative.

Error Message VMPS-7-INVOPCODE: Invalid opcode 0x[hex] in packet

Explanation This message indicates that the server received an invalid request from the client. 0x[hex] is the invalid request number.

Recommended Action Contact your technical support representative.

Error Message VMPS-7-INVTLV: Invalid TLV type 0x[hex]

Explanation This message indicates that the server received an invalid request from the client. 0x[hex] is the invalid data in the request.

Recommended Action Contact your technical support representative.

Error Message VMPS-7-INVVER: Invalid version 0x[hex] in packet

Explanation This message indicates that the server is running an older version of VMPS. 0x[hex] is the version the client is running.

Recommended Action Upgrade the server to a newer version.

VTP Messages

This section contains the VLAN Trunking Protocol (VTP) messages.

VTP-1

Error Message VTP-1-GVRPDYNVLANCREATE: Can't get out of transparent mode when dynamic vlan creation is enabled

Explanation This message indicates that you can only enable dynamic VLAN creation when VTP is in transparent mode.

Recommended Action No action is necessary. This message is provided for information only.

VTP-2

Error Message VTP-2-INBANDINRSPANVLAN: Rspan vlan [dec] assigned to inband port

Explanation This message indicates that a Remote SPAN (RSPAN) VLAN has been assigned to the inband port. [dec] is the RSPAN VLAN number.

Recommended Action Contact your technical support representative.

Error Message VTP-2-ISL1QMAPMALLOCFAIL: Malloc failed [chars]

Explanation This message indicates that memory allocation failed. [chars] is the action.

Recommended Action No action is necessary. This message is provided for information only.

Error Message VTP-2-ISL1QMAPSCPSENDFAIL: Send [chars] via scp failed to module [dec]

Explanation This message indicates that an SCP message failed to reach the module. [chars] is the information sent, and [dec] is the module number to which the message was sent.

Recommended Action No action is necessary. This message is provided for information only.

Error Message VTP-2-ISL1QMAPSCPSTATUSNOTSUPPORTED: Module [dec] does not support vlan mapping - upgrade module software if vlan mapping is required

Explanation This message indicates that the switch sends all of the isl-1q VLAN mapping to all of the 1q-capable modules. If a module returns a status of SCPSTAT_NOTSUPPORTED to the switch, the above message is generated. [dec] is the module number.

Recommended Action Contact your technical support representative.

Error Message VTP-2-LLCRXFAIL: LLC couldn't parse received vtp packet.

Explanation This message indicates an internal error in LLC.

Recommended Action Contact your technical support representative.

Error Message VTP-2-RXINVSUMMARY: rx invalid summary from [chars], len=[dec], rev=[dec]

Explanation This message indicates that the sanity check in VTP detects a received VTP message with an invalid length. [chars] is the module/port where the message was received, the first [dec] is the message length, and the second [dec] is the configuration revision number.

Recommended Action Contact your technical support representative.

Error Message VTP-2-SOFTBOUNDARY: Failed to create [chars] Vlan ([dec]) in [chars]-Vlan range. Highest-IV=[dec], lowest-UV=[dec]

Explanation This message indicates that VLAN creation has failed due to either trying to create an internal VLAN in the user VLAN range or trying to create a user VLAN in the internal VLAN range. The first [chars] is either internal or user, Vlan ([dec]) is the VLAN number, [chars] is either internal or user, Highest-IV=[dec] indicates the highest internal VLAN number from 1025 to the Highest-IV, and Lowest-UV=[dec] is the lowest user VLAN number in the extended range (from the Lowest-UV to 4094 is the user VLAN range).

Recommended Action Use a valid VLAN number in the correct range.

Error Message VTP-2-TXINVSUMMARY: tx invalid summary to [dec]/[dec], len=[dec]

Explanation This message indicates that the sanity check in VTP detects a VTP message with an invalid length to be transmitted. [dec]/[dec] is the destination module/port, and [dec] is the message length.

Recommended Action Contact your technical support representative.

VTP-4

Error Message VTP-4-DBLOCKED: Database for domain [chars] locked, giving up

Explanation This message indicates that the database for a domain is locked. [chars] is the domain name and will not permit entry.

Recommended Action Contact your technical support representative.

Error Message VTP-4-ISL1QMAPSCPSTATUSNOTOK: Send [chars] via scp to Module [dec] result no OK, status = [dec]

Explanation This message indicates that the information sent to the module through SCP was not transmitted successfully. [chars] is the message sent, Module [dec] is the module number where the message was sent, and status = [dec] is the error message.

Recommended Action No action is necessary. This message is provided for information only.

Error Message VTP-4-NODOMAIN: domain [chars] not found

Explanation This message indicates that the domain cannot be found. [chars] is the domain name.

Recommended Action Contact your technical support representative.

Error Message VTP-4-NOTSERVER: Cannot configure a VLAN in client mode

Explanation This message indicates that you tried to create a VLAN when VTP is in client mode.

Recommended Action You can change VTP to server or transparent mode to create the VLAN.

Error Message VTP-4-NOVLAN: vlan [dec] not found (mode = [dec])

Explanation This message indicates that the VLAN cannot be found while trying to modify or delete it. vlan [dec] is the VLAN number, and (mode= [dec]) is the mode value.

Recommended Action No action is necessary. This message is provided for information only.

Error Message VTP-4-PORTSINRSPANVLAN:Port [dec]/[dec] inactive in rspan vlan [dec]

Explanation This message indicates that a port has become inactive for RSPAN. [dec]/[dec] is the module number and port number, and vlan [dec] is the RSPAN VLAN number.

Recommended Action No action is necessary. This message is provided for information only.

Error Message VTP-4-RSPVLAN_NOHWSUPP: Rspan vlan not supported: hardware upgrade required

Explanation This message indicates that a hardware upgrade is required to use the RSPAN VLAN feature.

Recommended Action Contact your technical support representative.

Error Message VTP-4-UNSUPPORTEDCFGRCVD: Rcvd VTP advert with unsupported vlan config on trunk [chars] - VTP mode changed to transparent

Explanation This message indicates that a switch has received a VTP advertisement indicating an unsupported VLAN configuration on a trunk port. The switch has changed the VTP mode to transparent. [chars] is the trunk port.

Recommended Action No action is necessary. This message is provided for information only.

VTP-5

Error Message VTP-5-DYNCREATEVLAN: Vlan [dec] dynamically created successful

Explanation This message indicates that a dynamic VLAN has been created. [dec] is the number of the VLAN created.

Recommended Action No action is necessary. This message is provided for information only.

Error Message VTP-5-DYNDELETEVLAN: Vlan [dec] dynamically deleted successful

Explanation This message indicates that a dynamic VLAN has been deleted. [dec] is the number of the VLAN deleted.

Recommended Action No action is necessary. This message is provided for information only.

Error Message VTP-5-PVLANMODECONFLICT: VTP has to be in Transparent mode if Private Vlans are configured

Explanation This message indicates that an attempt was made to set VTP to client or server mode while private VLANs are configured on the switch. Private VLANs cannot be configured if VTP is not in transparent mode.

Recommended Action Set the VTP mode to transparent.

Error Message VTP-5-RSPANVLANCHG: Rspan vlan [dec] [chars]ed

Explanation This message indicates that an RSPAN VLAN has been created or deleted. [dec] is the RSPAN VLAN number, and [chars]ed is either created or deleted.

Recommended Action No action is necessary. This message is provided for information only.

VTP-6

Error Message VTP-6-DOMAINCHG: Domain [chars] modified

Explanation This message indicates that the domain was modified. [chars] is the domain name.

Recommended Action No action is necessary. This message is provided for information only.

Error Message VTP-6-EXTVLANCHG: Vlan [dec] added in Extended Range does not propagate

Explanation This message indicates that the extended range VLAN is not managed by VTP so that configuration changes will not be propagated to the entire VTP management domain. The message displays when an extended range VLAN is created. [dec] is the VLAN number.

Recommended Action Contact your technical support representative.

Error Message VTP-6-INTVLANALLOCPOLICY: Internal vlan allocation policy "set to [chars]scending"

Explanation This message indicates that either the internal VLAN allocation policy is set to ascending or descending. If the VLAN allocation policy is set to ascending, internal VLANs will be allocated from 1006 and greater. If the internal VLAN allocation policy is set to descending, the internal VLANs will be allocated from 4094 and lower.

Recommended Action No action is necessary. This message is provided for information only.

Error Message VTP-6-PRIMARYSERVCHG: [chars] is the new Primary server for [chars] feature

Explanation This message indicates that the primary server has changed for a feature in the VTP domain. The message is logged on the server with the switch ID shown in the first [chars] character string. The second [chars] identifies the feature in the VTP domain.

Recommended Action No action is necessary. This message is provided for information only.

Error Message VTP-6-VLANCHG: VLAN [dec] [chars]ed

Explanation This message indicates that the VLAN is modified, added, or deleted. [dec] is the VLAN number, and [chars]ed is the action.

Recommended Action No action is necessary. This message is provided for information only.

WEBAUTH Messages

This section contains the WEBAUTH messages.

WEBAUTH-3

Error Message WEBAUTH-3-WA_GROUP_NOT_PRESENT: Group received for host [chars] not presently configured

Explanation This message indicates that the web authentication received a notification of a policy group that is not configured on the switch from the RADIUS server during web authentication of a host. [chars] is the host name.

Recommended Action Configure the policy group so that it is part of the policy of the switch (ACL).

Error Message WEBAUTH-3-WA_LOGIN_PAGE_PARSE_ERROR: Error while parsing the submitted login-page

Explanation This message indicates that during web authentication, the user-configured login page cannot be parsed to extract the credentials entered by a user. The user-configured login page will not comply with the template enforced by web authentication.

Recommended Action Configure a login page that complies with the template enforced by web authentication.

Error Message WEBAUTH-3-WA_MAX_HOSTS_ON_PORT: Port [dec]/[dec] already has 32 hosts (max allowed). Cannot web-authenticate any more hosts on this port

Explanation This message indicates that the number of hosts on a particular port has exceeded 32, which is the maximum number of hosts that web authentication can handle on a per-port basis. [dec]/[dec] is the module/port numbers.

Recommended Action Load balance hosts to ports to reduce the number of hosts connected on the port that caused the error.

Error Message WEBAUTH-3-WA_RADIUS_TRANSMIT_FAILURE: Radius transmission failed while authenticating the host [chars]

Explanation This message indicates that there is a communication failure with the RADIUS server during web authentication. This issue can occur even when the RADIUS servers are correctly configured, but web authentication is unable to communicate with them for other reasons. [chars] is the host name.

Recommended Action Check for RADIUS server connectivity issues. Contact your technical support representative if you are unable to determine the problem.

WEBAUTH-4

Error Message WEBAUTH-4-WA_NO_RADIUS_SERVER: No radius servers configured

Explanation This message indicates that there are no RADIUS servers configured on the switch when the web authentication facility is attempting to authenticate a host. Web authentication will not be able to authenticate the host. Authentication fails for the ports configured for web authentication, and those hosts might not be accessible.

Recommended Action Configure RADIUS servers on the switch.

WEBAUTH-5

Error Message WEBAUTH-5-WA_IDLE_HOST_TIMEOUT: The session for host [char] on port [dec]/[dec] is terminated due to idle timeout

Explanation This message indicates that due to inactivity, the host stopped responding to ARP probes, and an idle timeout reinitializes the host.

Recommended Action This is a notification to remove idle hosts from the network. In case of any other behavior, turn off the device tracking on the port or globally.

WEBAUTH-6

Error Message WEBAUTH-6-WA_NAME_TRUNCATED: Port [dec]/[dec], Port name received from RADIUS truncated

Explanation This message indicates that the port name received from the RADIUS server is more than 18 characters. [dec]/[dec] is the module/port number on which the port name was truncated.

Recommended Action No action is necessary. This message is provided for information only.

Error Message WEBAUTH-6-WA_HOST_CRITICAL_NO_AAAPOLICY: Port [dec]/[dec], host [char] - AAA Fail Policy is not applied since ACLs with include keyword are configured

Explanation This message indicates the port [mod/port] with host [name] could not move to the AAA fail state because the base ACL with **include** keyword is mapped to the port. The AAA Fail policy and DACL are mutually exclusive. If a port with a configured DACL tries to move to the AAA fail state, the policy mapping also fails.

Recommended Action Remove the policy or the base ACL mapping on the port and do not send a DACL to the port.

A

Acronyms and Abbreviations

Table A-1 defines the acronyms and abbreviations that are used in this publication.

Table A-1 *List of Acronyms and Abbreviations*

Acronym	Expansion
AAA	authentication, authorization, and accounting
ACE	Allegro Crypto Engine
ACL	access control list
ACS	Access Control Server
AIS	Alarm Indication Signal
ARP	Address Resolution Protocol
ATM	Asynchronous Transfer Mode
ASIC	application-specific integrated circuit
ASLB	accelerated server load balancing
AV	attribute value
BDD	binary decision diagrams
BPDU	bridge protocol data unit
CAM	content-addressable memory
CBAC	context based access control
CDP	Cisco Discovery Protocol
CE	Customer Edge
CFM	Connectivity Fault Management
CGMP	Cisco Group Management Protocol
CLI	command-line interface
COPS	Common Open Policy Server
CoS	class of service
CPU	central processing unit
CRC	cyclic redundancy check
CRF	concentrator relay function
DHCP	Dynamic Host Configuration Protocol
DISL	Dynamic Inter-Switch Link
DMP	data movement processor
dot1x	802.1X

Table A-1 *List of Acronyms and Abbreviations (continued)*

Acronym	Expansion
DRAM	dynamic RAM
DRiP	Dual Ring Protocol
DSCP	differentiated services code point
DTP	Dynamic Trunking Protocol
DVLAN	Dynamic VLAN
DVMRP	Distance Vector Multicast Routing Protocol
EAP	Extensible Authentication Protocol
EARL	Enhanced Address Recognition Logic
EEPROM	electrically erasable programmable read-only memory
ELMI	Ethernet Local Management Interface
EOBC	Ethernet out-of-band channel
EPROM	erasable programmable read-only memory
ETHC	Ethernet Channel
EVC	Ethernet Virtual Connection
FCS	frame check sequence
FIB	Forwarding Information Base
FIFO	first-in, first-out
FPOE	first port of entry
FRU	field replaceable unit
FTP	file transfer protocol
GBIC	Gigabit Interface Converter
DA	Group Destination Address
GMRP	GARP Multicast Registration Protocol
GVRP	GARP VLAN Registration Protocol
HA	high availability
FDDI	Fiber Distributed Data Interface
HSRP	Hot Standby Routing Protocol
IGMP	Internet Group Management Protocol
IOS	Internet Operating System (Cisco)
IP	Internet Protocol
IPX	Internetwork Packet Exchange
ISL	Inter-Switch Link
L2	Layer 2
L2PT	Layer 2 Protocol Tunneling
LACP	Link Aggregation Control Protocol
LAN	local area network

Table A-1 *List of Acronyms and Abbreviations (continued)*

Acronym	Expansion
LCP	Link Control Protocol
LD	Local Director
LDA	Local Director Acceleration
LLC	Logical Link Control
LOU	logical operation units
LTL	Local Target Logic
MAC	Media Access Control
MCAST	Multicast
MEP	Maintenance End Point
MII	Media-independent interface
MIP	Maintenance Intermediate Point
MLS	Multilayer Switching
MMLS	Multicast Multilayer Switching
MSFC	Multilayer Switch Feature Card
MST	Multiple Spanning Tree (802.1s)
MSTP	Multi-Instance Spanning Tree Protocol
MVRP	Multiple VLAN Registration Protocol
NFFC	NetFlow Feature Card
NMP	Network Management Processor
NVRAM	nonvolatile RAM
OAM	Operation, Administration, and Maintenance
OID	Object identifier
PACL	Port access control list
PAgP	Port Aggregation Protocol
PBF	policy-based forwarding
PC	Personal Computer (formerly PCMCIA)
PDU	protocol data unit
PFC	Policy Feature Card
PIM	protocol independent multicast
Protfilt	protocol filter
PVLAN	private VLANs
QoS	quality of service
RACL	router access control list
RADIUS	Remote Access Dial-In User Service
RAM	random-access memory
rcp	remote control protocol

Table A-1 *List of Acronyms and Abbreviations (continued)*

Acronym	Expansion
RGMP	Router-Ports Group Management Protocol
RPF	Reverse Path Forwarding
RMON	Remote Monitoring
ROM	read-only memory
ROMMON	ROM monitor
RSVP	ReSerVation Protocol
SBM	Subnet Bandwidth Manager
SCP	Serial Control Protocol
SFP	small form factor pluggable
SMTP	Simple Mail Transfer Protocol
SNMP	Simple Network Management Protocol
SPROM	serial programmable read-only memory
SSH	Secure Shell Protocol
SRAM	Static Random Access Memory
SRM	single router mode
STP	Spanning Tree Protocol
RSA	RSA public key cryptographic algorithm
TAC	Technical Assistance Center
TACACS+	Terminal Access Controller Access Control System Plus
TCAM	ternary content addressable memory
TCP/IP	Transmission Control Protocol/Internet Protocol
TCP	Transmission Control Protocol
TFTP	Trivial File Transfer Protocol
TLV	type-length-value
TopN	Utility that allows the user to analyze port traffic by reports
TrBRF	Token Ring Bridge Relay Function
TRCP	Token Ring Control Processor
TrCRF	Token Ring Concentrator Relay Function
UDLD	UniDirectional Link Detection Protocol
UDP	User Datagram Protocol
UNI	User to Network Interface
VACL	VLAN access control list
VLAN	Virtual LAN
VMPS	VLAN Membership Policy Server
VTP	VLAN Trunking Protocol



INDEX

A

- Access Control Lists messages
 - See ACL messages
- ACL MACAUTH messages
 - See MACAUTH SECURITY messages
- ACL messages [2-2 to 2-7](#)
- acronyms, list of [A-1](#)

B

- buffer size
 - changing [1-7](#)

C

- CallHome messages [2-14 to 2-16](#)
- CDP messages [2-16 to 2-17](#)
- character string variable field [1-3, 1-4](#)
- Cisco Discovery Protocol messages
 - See CDP messages
- Cisco Group Management Protocol (CGMP) messages
 - See MCAST messages
- Common Open Policy Service Protocol messages
 - See COPS messages
- configuring
 - examples [1-5 to 1-11](#)
 - syslog daemon [1-6](#)
 - syslog servers [1-6](#)
 - system message logging [1-5](#)
 - Telnet sessions [1-8](#)
- COPS messages [2-17 to 2-18](#)

D

- date/time stamp designation [2-1](#)
- decimal variable field [1-4](#)
- default system message log configuration [1-4](#)
- deleting syslog servers [1-7](#)
- DHCPSNOOPING messages [2-20 to 2-21](#)
- Diagnostic Optical Monitoring messages
 - See DOM messages
- disabling system message logging
 - configured syslog server [1-7](#)
 - current Telnet login session [1-8](#)
 - from console [1-6](#)
- displaying
 - current system message configuration [1-9](#)
 - first system message [1-10](#)
 - last system message [1-11](#)
- documentation
 - conventions [i-x](#)
 - organization [i-ix](#)
 - related documents [i-ix](#)
- DOM messages [2-24 to 2-26](#)
- DRIP messages [2-26 to 2-28](#)
- DTP messages [2-28 to 2-32](#)
- Dual Ring Protocol messages
 - See DRIP messages
- DVLAN messages [2-32 to 2-37](#)
- Dynamic Host Configuration Protocol Snooping messages
 - See DHCPSNOOPING messages
- Dynamic Trunking Protocol messages
 - See DTP messages
- Dynamic VLAN messages
 - See DVLAN messages

E

EARL messages [2-37 to 2-41](#)

ELMI Messages [2-42](#)

enabling system message logging

 current Telnet login session [1-8](#)

 to configured syslog servers [1-6](#)

Enhanced Address Recognition Logic messages

 See EARL messages

ETHC messages [2-50 to 2-53](#)

ETHERCFM Messages [2-53](#)

Ethernet Channel messages

 See ETHC messages

examples

 changing the log buffer size [1-8](#)

 disabling system message logging to console [1-5](#)

 displaying default configuration [1-5](#)

 displaying messages from buffer [1-10](#)

 enabling or disabling the message timestamp [1-8](#)

 enabling system message logging [1-7](#)

 setting logging server severity levels [1-7](#)

 setting syslog server facility to local0 [1-7](#)

 system message [1-1](#)

F

facility codes

 changing [1-5](#)

 description [1-2](#)

 table [1-2 to 1-3](#)

FILESYS messages [2-54 to 2-55](#)

Flash file system messages

 See FILESYS messages

G

GARP Multicast Registration Protocol (GMRP) messages

 See MCAST messages

GARP VLAN Registration Protocol messages

 See GVRP messages

Generic Layer 2 Protocol Tunneling messages

 See GL2PT messages

GL2PT messages [2-56 to 2-58](#)

GVRP messages [2-58 to 2-61](#)

H

hexadecimal integer variable field [1-4](#)

I

Internet Group Management Protocol (IGMP) messages

 See MCAST messages

IP messages [2-61 to 2-62](#)

K

KERNEL messages [2-63 to 2-64](#)

L

LD messages [2-64 to 2-65](#)

Local Director messages

 See LD messages

logs

 See System Message Logs

M

MACAUTH SECURITY messages [2-65 to 2-68](#)

MCAST messages [2-69 to 2-77](#)

message severity levels

 changing [1-5](#)

 description [1-3, 2-1](#)

 table [1-3](#)

message structure [1-1](#)

MGMT messages [2-78 to 2-87](#)

MLS messages [2-87 to 2-96](#)

mnemonic codes [1-3](#)

Multicast messages

See MCAST messages

Multilayer Switching messages

See MLS messages

Multiple VLAN Registration Protocol messages

See MVRP messages

MVRP messages [2-96 to 2-99](#)

P

PRIVATEVLAN messages [2-100 to 2-103](#)

PROTFILT messages [2-104](#)

Protocol Filtering messages

See PROTFILT messages

PRUNING messages [2-104 to 2-111](#)

PVLAN messages

see PRIVATEVLAN messages

Q

QoS MACAUTH messages

See MACAUTH SECURITY messages

QOS messages [2-111 to 2-120](#)

Quality of Service messages

See QOS messages

R

RADIUS messages [2-120 to 2-122](#)

Remote Authentication Dial-In User Service messages

See RADIUS messages

Resource Reservation Protocol messages

See RSVP messages

RSVP messages [2-122 to 2-124](#)

S

SECURITY MACAUTH messages

See MACAUTH SECURITY messages

SECURITY messages [2-124 to 2-139](#)

setting facility and severity level for syslog server messages [1-6](#)

severity levels

description [1-3, 2-1](#)

table [1-3](#)

Simple Network Management Protocol messages

See SNMP messages

Simple Network Management Protocol RMON messages

See SNMP RMON messages

SNMP messages [2-141 to 2-155](#)

SNMP RMON messages [2-155 to 2-157](#)

Spanning Tree Protocol messages

See SPANTREE messages

SPANTREE messages [2-157 to 2-169](#)

syslog daemon [1-6](#)

syslog servers

adding [1-7](#)

configuring [1-6](#)

SYS messages [2-170 to 2-270](#)

System Message Logging

clear logging server command [1-7](#)

System Message Log procedures [1-4](#)

console configuration [1-5](#)

default system message log configuration [1-4](#)

displaying system logging configuration [1-9](#)

syslog daemon on a UNIX syslog server configuration [1-6](#)

syslog server configuration [1-6](#)

Telnet login session configuration [1-8](#)

System Message Logs

configuring syslog servers [1-6](#)

configuring the console and telnet sessions [1-5](#)

configuring the syslog daemon on a UNIX server [1-6](#)

default configuration [1-4](#)

set logging console disable command [1-5](#)
set logging server command [1-6, 1-7, 1-8](#)

T

TAC messages [2-270 to 2-273](#)
TCP messages [2-273](#)
Telnet login session
 configuring [1-8](#)
Terminal Access Controller Access Control System Plus messages
 See TAC messages
timestamp
 changing [1-8](#)
Transmission Control Protocol messages
 See TCP messages

U

UDLD messages [2-274 to 2-276](#)
UniDirectional Link Detection Protocol messages
 See UDLD messages
UNIX servers
 configuring syslog daemon [1-6](#)
 saving messages to [1-4](#)

V

variable fields
 characters [1-4](#)
 decimal [1-4](#)
 hexadecimal [1-4](#)
 table [1-4](#)
verifying
 System Message Log configuration [1-10](#)
 Telnet login session [1-10](#)
VLAN Membership Policy Server messages
 See VMPS messages
VLAN Trunking Protocol messages

 See VTP messages
VLAN Trunking Protocol pruning messages
 See PRUNING messages
VMPS messages [2-276 to 2-280](#)
VTP messages [2-280 to 2-285](#)

W

WEBAUTH messages [2-285 to 2-287](#)