

53-1002843-01  
22 July 2013



# Network OS

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## Message Reference

Supporting Network OS v4.0.0

**BROCADE**

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## Document History

Title	Publication number	Summary of changes	Date
<i>Network OS Message Reference</i>	53-1002082-01	New document	December 2010
<i>Network OS Message Reference</i>	53-1002341-01	Updated for Network OS v2.1.0: <ul style="list-style-type: none"><li>Added new chapters: DCM, DOT1, FW, IGMP, L2SS, L3SS, PHP, PLAT, SS, VC, and VCS.</li><li>Added new messages: EM, FABR, FCOE, FVCS, HAM, HIL, LOG, MSTP, NSM, ONMD, PORT, RAS, RTWR, SEC, SFLO, SNMP, SSMD, SULB, and ZONE.</li><li>Deleted messages: CEE CONFIG, EANV, FABR, FVCS, HSL, LACP, MFIC, NSM, PORT, and TOAM.</li></ul>	September 2011

Title	Publication number	Summary of changes	Date
<i>Network OS Message Reference</i>	53-1002489-01	Updated for Network OS v2.1.1: <ul style="list-style-type: none"> <li>• Added new chapters: AUTH, C2, ELD, RCS, and TS.</li> <li>• Added new messages: L2SS, PORT, SEC, and SSMD.</li> <li>• Modified messages: L2SS, SEC, and ZONE.</li> </ul>	December 2011
<i>Network OS Message Reference</i>	53-1002559-01	Updated for Network OS v3.0.0: <ul style="list-style-type: none"> <li>• Added new chapters: BL, BLL, C3, CHS, ERCP, ESS, FABS, FCMC, FCPH, FLOD, FSPF, FSS, HASM, HAWK, HLO, KTRC, L2AG, LSDB, MCAST_SS, MPTH, MS, NBFS, NS, OSPF, PDM, RTM, SCN, SLCD, SWCH, UCST, UPTH, VRRP, and WLV.</li> <li>• Added new messages: AUTH, C2, DCM, EM, FABR, FVCS, FW, HIL, IPAD, L2SS, MSTP, NSM, and ONMD.</li> <li>• Modified messages: DOT1, EANV, ELD, FCOE, HSL, IGMP, LOG, MSTP, NSM, ONMD, PHP, PLAT, PORT, RAS, RCS, RTWR, SEC, SFLO, SNMP, SS, SSMD, SULB, TOAM, TRCE, TS, VC, VCS, and ZONE.</li> <li>• Deleted chapters: HAM and L3SS.</li> </ul>	September 2012
<i>Network OS Message Reference</i>	53-1002807-01	Updated for Network OS v3.0.1: <ul style="list-style-type: none"> <li>• Added new chapter: LACP.</li> <li>• Added new messages: EM, PORT, RAS, SEC, TS, and VC.</li> <li>• Modified messages: BL, HASM, and SNMP.</li> <li>• Deleted messages: RTM.</li> </ul>	December 2012
<i>Network OS Message Reference</i>	53-1002843-01	Updated for Network OS v4.0.0: <ul style="list-style-type: none"> <li>• Added new chapters: BGP, CBR, LIC, PCAP, PIM, QOSD, and UDLD.</li> <li>• Added new messages: DCM, FCOE, FVCS, HASM, HIL, L2AG, LOG, MSTP, NSM, PORT, RAS, RTM, SFLO, SS, SSMD, SULD, TS, VC, and VRRP.</li> <li>• Modified messages: DCM, EM, FSS, FVCS, HASM, LACP, LOG, MCST, MSTP, NSM, PLAT, PORT, RAS, RTM, SEC, SFLO, SS, SSMD, TS, VC, and VCS.</li> <li>• Deleted messages: SEC and SSMD.</li> </ul>	July 2013



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## How this document is organized

This document supports Brocade Network OS v4.0.0 and documents RASLog messages that can help you diagnose and fix problems with a switch or network. The guide is organized alphabetically by module name. A *module* is a subsystem in the Network OS. Each module generates a set of numbered messages. For each message, this guide provides message text, message type, severity level, probable cause, and recommended action. There may be more than one cause and more than one recommended action for any given message. This guide discusses the most probable cause and typical action recommended.

This document is organized to help you find the information that you want as quickly and easily as possible. The document contains the following components:

- [Chapter 1, "Introduction to RASLog Messages"](#) provides basic information on RASLog messages.
- [Chapter 2, "Log Messages"](#) includes a lookup list for LOG messages.
- [Chapter 3, "DCE Messages"](#) includes a lookup list for DCE messages.
- [Chapter 4, "FFDC Messages"](#) includes a lookup list for FFDC messages.
- [Chapter 5, "Audit Messages"](#) includes a lookup list for Audit messages.
- [Chapter 6, "VCS Messages"](#) includes a lookup list for VCS messages.
- [Chapter 7, "Network OS Messages"](#) provides message text, probable cause, recommended action, and severity for each of the messages.

# Supported hardware and software

In those instances in which procedures or parts of procedures documented here apply to some switches but not to others, this guide identifies exactly which switches are supported and which are not.

Although many different software and hardware configurations are tested and supported by Brocade Communications Systems, Inc. for Network OS v4.0.0, documenting all possible configurations and scenarios is beyond the scope of this document.

The following hardware platforms are supported by this release of Network OS:

- Brocade VDX 6710-54
- Brocade VDX 6720
  - Brocade VDX 6720-24
  - Brocade VDX 6720-60
- Brocade VDX 6730
  - Brocade VDX 6730-32
  - Brocade VDX 6730-76
- Brocade VDX 6740
- Brocade VDX 6740-T
- Brocade VDX 8770
  - Brocade VDX 8770-4
  - Brocade VDX 8770-8

## What's new in this document

The following changes have been made since this document was last released:

- Information that was added:
  - [BGP Messages](#)
  - [CBR Messages](#)
  - [DCM Messages](#)
  - [FCOE Messages](#)
  - [FVCS Messages](#)
  - [HASM Messages](#)
  - [HIL Messages](#)
  - [IGMP Messages](#)
  - [L2AG Messages](#)
  - [LIC Messages](#)
  - [LOG Messages](#)
  - [MSTP Messages](#)
  - [NSM Messages](#)

- PCAP Messages
- PIM Messages
- PORT Messages
- QOSD Messages
- RAS Messages
- RTM Messages
- SFLO Messages
- SS Messages
- SSMD Messages
- SULB Messages
- TS Messages
- UDLD Messages
- VC Messages
- VRRP Messages
- Information that was changed:
  - DCM Messages
  - EM Messages
  - FSS Messages
  - FVCS Messages
  - HASM Messages
  - LACP Messages
  - LOG Messages
  - MCST Messages
  - MSTP Messages
  - NSM Messages
  - PLAT Messages
  - PORT Messages
  - RAS Messages
  - RTM Messages
  - SEC Messages
  - SFLO Messages
  - SS Messages
  - SSMD Messages
  - TS Messages
  - VC Messages
  - VCS Messages
- Information that was deleted:
  - SEC Messages
  - SSMD Messages

# Document conventions

This section describes text formatting conventions and important notice formats used in this document.

## Text formatting

The narrative-text formatting conventions that are used are as follows:

<b>bold text</b>	Identifies command names Identifies the names of user-manipulated GUI elements Identifies keywords and operands Identifies text to enter at the GUI or CLI
<i>italic text</i>	Provides emphasis Identifies variables Identifies paths and Internet addresses Identifies document titles
<code>code text</code>	Identifies CLI output Identifies command syntax examples

For readability, command names in the narrative portions of this guide are presented in mixed lettercase; for example, **switchShow**. In actual examples, command lettercase is often all lowercase.

## Command syntax conventions

Command syntax in this manual follows these conventions:

<b>command</b>	Commands are printed in bold.
<i>variable</i>	Variables are printed in italics.
[ ]	Keywords or arguments that appear within square brackets are optional.
{ x   y   z }	A choice of required keywords appears in braces separated by vertical bars. You must select one.
<code>screen font</code>	Examples of information displayed on the screen.
< >	Non-printing characters, for example, passwords, appear in angle brackets.

---

### NOTE

In standalone mode, interfaces are identified using slot/port notation. In Brocade VCS Fabric technology® mode, interfaces are identified using switch/slot/port notation.

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## Notes

The following note is used in this manual.

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### NOTE

A note provides a tip, guidance, or advice, emphasizes important information, or provides a reference to related information.

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## Key terms

For definitions specific to Brocade and Fibre Channel, see the technical glossaries on MyBrocade. See “[Brocade resources](#)” on page xv for instructions on accessing MyBrocade.

For definitions of SAN-specific terms, visit the Storage Networking Industry Association online dictionary at:

<http://www.snia.org/education/dictionary>

## Notice to the reader

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Corporation	Referenced trademarks and products
Microsoft Corporation	Windows
Red Hat, Inc.	Red Hat package manager (RPM)

## Additional information

This section lists additional Brocade and industry-specific documentation that you might find helpful.

### Brocade resources

To get up-to-the-minute information, go to <http://my.brocade.com> and register at no cost for a user ID and password.

White papers, online demonstrations, and data sheets are available through the Brocade website at:

<http://www.brocade.com/products-solutions/products/index.page>

For additional Brocade documentation, visit the Brocade website:

<http://www.brocade.com>

### Other industry resources

For additional resource information, visit the Technical Committee T11 website. This website provides interface standards for high-performance and mass storage applications for Fibre Channel, storage management, and other applications:

<http://www.t11.org>

For information about the Fibre Channel industry, visit the Fibre Channel Industry Association website:

<http://www.fibrechannel.org>

## Getting technical help

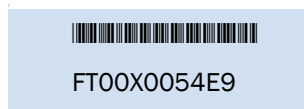
Contact your switch support supplier for hardware, firmware, and software support, including product repairs and part ordering. To expedite your call, have the following information available:

1. General Information

- Switch model
- Switch operating system version
- Software name and software version, if applicable
- Error numbers and messages received
- **copy support** command output
- Detailed description of the problem, including the switch or network behavior immediately following the problem, and specific questions
- Description of any troubleshooting steps already performed and the results
- Serial console and Telnet session logs
- syslog message logs

2. Switch Serial Number

The switch serial number and corresponding bar code are provided on the serial number label, as illustrated below.



The serial number label for the Brocade VDX 6710, Brocade VDX 6720, Brocade VDX 6730, Brocade VDX 6740, and Brocade VDX 8770 is located on the switch ID pull-out tab located on the bottom of the port side of the switch.

## Document feedback

Quality is our first concern at Brocade and we have made every effort to ensure the accuracy and completeness of this document. However, if you find an error or an omission, or you think that a topic needs further development, we want to hear from you. Forward your feedback to:

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Provide the title and version number of the document and as much detail as possible about your comment, including the topic heading and page number and your suggestions for improvement.



# Introduction to RASLog Messages

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## In this chapter

- Overview of RASLog messages. . . . . 1
- Configuring the syslog message destinations . . . . . 5
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## Overview of RASLog messages

RASLog messages log system events related to configuration changes or system error conditions. Messages are reported at various levels of severity ranging from informational (INFO) to escalating error levels (WARNING, ERROR, and CRITICAL). Network OS maintains two separate internal message storage repositories, SYSTEM and DCE. [Table 1](#) shows the message types stored in each of the two repositories. A RASLog message can have one or more type attributes. For example, a message can be of type DCE, FFDC, and AUDIT. A message cannot have both LOG and DCE type attributes.

**TABLE 1** Message type matrix

Message type	DCE message repository	SYSTEM message repository
LOG	No	Yes
DCE	Yes	No
FFDC	Yes	Yes
VCS	Yes	Yes
AUDIT	Yes	Yes

## RASLog message types

Network OS supports five types of RASLog messages. The following sections describe in detail the message types.

## *System messages*

System or LOG messages report significant system-level events or information and are also used to show the status of the high-level user-initiated actions. System messages are stored in a separate nonvolatile storage and are preserved across the firmware upgrade or downgrade. The system messages are forwarded to the console, to the configured syslog servers, and through the SNMP traps or informs to the SNMP management station.

The following is an example of a system message.

```
2011/08/23-22:58:12, [EM-1036], 4,, WARNING, VDX6720-24, Fan 1 is not accessible.
```

For information on displaying and clearing the system messages, refer to [“Viewing and clearing the SYSTEM messages”](#) on page 14.

## *DCE RASLog messages*

DCE RASLog messages report error-related events and information in the protocol-based modules such as network service module (NSM), system services manager (SSM), and so on. DCE messages are stored in a separate nonvolatile storage and are preserved across the firmware upgrades. The DCE messages are forwarded to the console, to the configured syslog servers, and through the SNMP traps or informs to the SNMP management station.

---

### **NOTE**

DCE messages are supported only in Network OS v3.0.0 and later. If you downgrade to an earlier firmware version, the DCE messages will be dropped.

---

The following is an example of a DCE message.

```
2012/05/30-21:25:55, [ONMD-1002], 59, M1 | DCE, INFO, sw0, LLDP global configuration is changed.
```

For information on displaying and clearing the DCE RASLog messages, refer to [“Viewing and clearing the DCE messages”](#) on page 14.

## *VCS RASLog messages*

VCS RASLog messages are supported in VCS fabrics only. The VCS RASLog messages are used to indicate events such as node removal and node join from the Brocade VCS fabric. When a switch generates a VCS RASLog message, it is forwarded to the system console, remote syslog, and SNMP management station.

The following is an example of a VCS RASLog message.

```
2011/08/26-12:40:01, [VCS-1003], 7013/3454, VCS, INFO, VDX6720-60, Event: VCS node add, Coordinator IP: 10.17.10.31, VCS ID: 1, Status: rBridge ID 1 (10.17.10.32) added to VCS cluster., VcsFabAddRejoin, line: 1450, comp:dcmd, ltime:2011/06/27-02:47:04:555942.
```

You can display the VCS RASLog messages using the **show logging raslog attribute VCS** command. For information on displaying the VCS RASLog messages, refer to [“Displaying the VCS messages”](#) on page 15.

## Audit log messages

Event auditing is designed to support post-event audits and problem determination based on high-frequency events of certain types, such as security violations, firmware downloads, and configuration. Audit log messages are saved in the persistent storage. The storage has a limit of 1024 entries and will wrap around if the number of messages exceed the limit. The switch can be configured to stream Audit messages to the specified syslog servers. The Audit log messages are not forwarded to an SNMP management station.

The following is an example of an Audit log message.

```
AUDIT,2011/08/26-07:51:32 (GMT), [DCM-2001], INFO, DCMCFG,
root/none/127.0.0.1/rpc/cli,, VDX6720-24, Event: noscli start, Status: success,
Info: Successful login attempt through console from 127.0.0.1.
```

For any given event, Audit messages capture the following information:

- User Name - The name of the user who triggered the action.
- User Role - The access level of the user, such as root or admin.
- Event Name - The name of the event that occurred.
- Status - The status of the event that occurred: success or failure.
- Event Info - Information about the event.

The three event classes described in [Table 2](#) can be audited.

**TABLE 2** Event classes of the Audit messages

Event class	Operand	Description
DCMCFG	CONFIGURATION	You can audit all the configuration changes in the Network OS.
FIRMWARE	FIRMWARE	You can audit the events occurring during the firmware download process.
SECURITY	SECURITY	You can audit any user-initiated security event for all management interfaces. For events that have an impact on the entire network, an audit is generated only for the switch from which the event was initiated.

You can enable event auditing by configuring the syslog daemon to send the events to a configured remote host using the **logging syslog-server** command. You can set up filters to screen out particular classes of events using the **logging auditlog class** command (the classes include SECURITY, CONFIGURATION, and FIRMWARE). All the Audit classes are enabled by default. The defined set of Audit messages are sent to the configured remote host in the Audit message format, so that they are easily distinguishable from other syslog events that may occur in the network. For details on how to configure event auditing, refer to [“Configuring event auditing”](#) on page 17.

## FFDC messages

First Failure Data Capture (FFDC) is used to capture failure-specific data when a problem or failure is first noted and before the switch reloads or the trace and log buffer get wrapped. All subsequent iterations of the same error are ignored. This critical debug information is saved in nonvolatile storage and can be retrieved by executing the **copy support** command. The data are used for debugging purposes. FFDC is intended for use by Brocade technical support.

FFDC is enabled by default. Execute the **support** command to enable or disable FFDC. If FFDC is disabled, the FFDC daemon does not capture any data, even when a message with FFDC attributes is logged.

# 1 Overview of RASLog messages

The following is an example of an FFDC message.

```
2011/08/26-12:39:02, [HAM-1007], 2, FFDC, CRITICAL, VDX6720-24, Need to reboot the
system for recovery, reason: raslog-test-string0123456-raslog.
```

You can display the FFDC messages using the **show logging raslog attribute FFDC** command. For information on displaying the FFDC RASLog messages, refer to [“Displaying the FFDC messages”](#) on page 16.

## Message severity levels

There are four levels of severity for messages, ranging from CRITICAL to INFO. In general, the definitions are wide ranging and are to be used as general guidelines for troubleshooting. In all cases, you must look at each specific error message description thoroughly before taking action. [Table 3](#) lists the RASLog message severity levels.

**TABLE 3** Severity levels of the RASLog messages

Severity level	Description
CRITICAL	Critical-level messages indicate that the software has detected serious problems that cause a partial or complete failure of a subsystem if not corrected immediately; for example, a power supply failure or rise in temperature must receive immediate attention.
ERROR	Error-level messages represent an error condition that does not affect overall system functionality significantly. For example, error-level messages may indicate time-outs on certain operations, failures of certain operations after retries, invalid parameters, or failure to perform a requested operation.
WARNING	Warning-level messages highlight a current operating condition that must be checked or it may lead to a failure in the future. For example, a power supply failure in a redundant system relays a warning that the system is no longer operating in redundant mode unless the failed power supply is replaced or fixed.
INFO	Info-level messages report the current non-error status of the system components; for example, detecting online and offline status of an interface.

## RASLog message logging

The RASLog service generates and stores messages related to abnormal or erroneous system behavior. It includes the following features:

- SYSTEM and DCE messages are saved to separate nonvolatile storage repositories.
- SYSTEM and DCE message logs can save a maximum of 4096 messages.
- The message log is implemented as a circular buffer. When more than the maximum entries are added to the log file, new entries overwrite the old entries.
- Messages are numbered sequentially from 1 through 2,147,483,647 (0x7fffffff). The sequence number continues to increase after the message log wraps around. The message sequence numbering is not split for the system and DCE message logs. The sequence number can be reset to 1 using the **clear logging raslog** command. However, the sequence number is not reset to 1 if you clear a particular message type, for example, DCE.
- Trace dump, FFDC, and core dump files can be uploaded to the FTP server using the **copy support ftp** command.
- Brocade recommends that you configure the system logging daemon (syslogd) facility as a management tool for error logs. For more information, refer to [“System logging daemon”](#) on page 5.

## Configuring the syslog message destinations

You can configure a switch to send the syslog messages to the following output locations: syslog daemon, system console, and SNMP management station.

### System logging daemon

The system logging daemon (syslogd) is a process on UNIX, Linux, and some Windows systems that reads and logs messages as specified by the system administrator.

Network OS can be configured to use a UNIX-style syslogd process to forward system events and error messages to log files on a remote host system. The host system can be running UNIX, Linux, or any other operating system that supports the standard syslogd functionality. All the RASLog messages are forwarded to the syslogd. Configuring for syslogd involves configuring the host, enabling syslogd on the Brocade model, and optionally, setting the facility level.

### *Configuring a syslog server*

To configure the switch to forward all RASLog messages to the syslogd of one or more servers, perform the following steps.

1. Execute the **configure terminal** command to access the global configuration level of the CLI.
2. Execute the **logging syslog-server IP address** command to add a server to which the messages are forwarded. You can configure a syslog server in both IPv4 or IPv6 format. The following example is for configuring a syslog server with IPv4 address.

```
switch# configure terminal
Entering configuration mode terminal
switch(config)# logging syslog-server 192.0.2.2
```

You can configure up to four syslog servers to receive the syslog messages.

3. Execute the **show running-config logging syslog-server** command to verify the syslog configuration on the switch.

```
switch# show running-config logging syslog-server
logging syslog-server 192.0.2.2
```

The following example configures a syslog server with an IPv6 address.

```
switch# configure terminal
Entering configuration mode terminal
switch(config)# logging syslog-server 2001:DB8::32
switch(config)# exit
switch# show running-config logging syslog-server
logging syslog-server 2001:db8::32
```

You can remove a configured syslog server using the **no logging syslog-server IP address** command.

### *Setting the syslog facility*

The syslog facility is a configurable parameter that specifies the log file to which messages are forwarded. You must configure the syslog servers to receive system messages before you can configure the syslog facility.

# 1 Configuring the syslog message destinations

To set the syslog facility, perform the following steps.

1. Execute the **configure terminal** command to access the global configuration level of the CLI.

```
switch# configure terminal
Entering configuration mode terminal
```

2. Execute the **logging syslog-facility local log\_level** command to set the syslog facility to a specified log file.

The *log\_level* specifies the syslog facility and can be a value from LOG\_LOCAL0 through LOG\_LOCAL7. The default syslog level is LOG\_LOCAL7. The following example is for setting the syslog facility level to LOG\_LOCAL2.

```
switch(config)# logging syslog-facility local LOG_LOCAL2
```

3. Execute the **show running-config logging syslog-facility** command to verify the syslog facility configuration on the switch.

```
switch# show running-config logging syslog-facility
logging syslog-facility local LOG_LOCAL2
```

You can reset the syslog facility to the default (LOG\_LOCAL7) using the **no logging syslog-facility local** command.

## System console

The system console displays all RASLog messages, Audit messages (if enabled), and panic dump messages. These messages are mirrored to the system console; they are always saved in one of the message logs.

The system console displays messages only through the serial port. If you log in to a switch through the Ethernet port or modem port, you will not receive system console messages.

You can filter messages that display on the system console by severity using the **logging raslog console** command. All messages are still sent to the system message log, syslog (if enabled), and SNMP management station.

### *Setting the RASLog console severity level*

You can limit the types of messages that are logged to the console using the **logging raslog console** command. The RASLog messages displayed on the console are passed up to and above the configured severity level. For example, if you configure the console severity level to ERROR, then only ERROR and CRITICAL messages pass through. You can choose one of the following severity levels: INFO, WARNING, ERROR, or CRITICAL. The default severity level is INFO.

To set the severity levels for the RASLog console, perform the following steps.

1. Execute the **configure terminal** command to access the global configuration level of the CLI.

```
switch# configure terminal
Entering configuration mode terminal
```

2. Execute the **logging rbridge-id rbridge-id raslog console severity level** command to set the RASLog console severity level.

The *severity level* can be one of the following: INFO, WARNING, ERROR, or CRITICAL. The severity level values are case-sensitive. For example, to set the console severity level to ERROR on switch 1, enter the following command.

```
switch(config)# logging rbridge-id 1 raslog console ERROR
```

3. Execute the **copy running-config startup-config** command to save the configuration changes.

You can reset the console severity level to the default (INFO) using the **no logging rbridge-id rbridge-id raslog console** command.

## SNMP management station

When an unusual event, error, or a status change occurs on the device, an event notification is sent to the SNMP management station. Network OS v4.0.0 supports two types of event notifications: traps (in SNMPv1, SNMPv2c, and SNMPv3) and informs (in SNMPv3).

### *SNMP traps*

An unsolicited message that comes to the management station from the SNMP agent on the device is called a *trap*. When an event occurs and if the event severity level is at or below the set severity level, the SNMP trap, `swEventTrap`, is sent to the configured trap recipients. The `VarBind` in the Trap Data Unit contains the corresponding instance of the event index, time information, event severity level, the repeat count, and description. The possible severity levels are as follows:

- Critical
- Debug
- Error
- Info
- None
- Warning

By default, the severity level is set to None, implying all traps are filtered and therefore no event traps are received. When the severity level is set to Info, all traps with the severity level of Info, Warning, Error, and Critical are received.

---

#### NOTE

The Audit log messages are not converted into `swEventTrap`.

---

The SNMP traps are unreliable because the trap recipient does not send any acknowledgment when it receives a trap. Therefore, the SNMP agent cannot determine if the trap was received.

Brocade switches send traps out on UDP port 162. To receive traps, the management station IP address must be configured on the switch. You can configure the SNMPv1, SNMPv2c, and SNMPv3 hosts to receive the traps. For more information, refer to [“Configuring the SNMP \(version 1 or version 2c\) server host”](#) on page 9.

### SNMP informs

An SNMP inform is similar to the SNMP trap except that the management station that receives an SNMP inform acknowledges the system message with an SNMP response PDU. If the sender does not receive the SNMP response, the SNMP inform request can be sent again. An SNMP inform request is saved in the switch memory until a response is received or the request times out. The SNMP informs are more reliable and they consume more resources in the device and in the network. Use SNMP informs only if it is important that the management station receives all event notifications. Otherwise, use the SNMP traps.

Brocade devices support SNMPv3 informs. For more information, refer to [“Configuring the SNMPv3 server”](#) on page 9.

### Port logs

The Network OS maintains an internal log of all port activity. Each switch maintains a log file for each port. Port logs are circular buffers that can save up to 8,000 entries per switch. When the log is full, the newest log entries overwrite the oldest log entries. Port logs capture switch-to-device, device-to-switch, switch-to-switch, some device A-to-device B, and control information. Port logs are not persistent and are lost across power cycles and reboots.

Port log functionality is completely separate from the system message log. Port logs are typically used to troubleshoot device connections.

## Configuring the SNMP server hosts

Network OS v4.0.0 supports SNMP version 1, version 2c, and version 3. Use the commands listed in [Table 4](#) to configure the SNMPv1, SNMPv2c, and SNMPv3 hosts and their configurations.

**TABLE 4** Commands for configuring SNMP server hosts

Command	Description
[no] snmp-server host {ipv4 host   ipv6-host   dns} community-string [severity-level [None   Debug   Info   Warning   Error   Critical] [udp-port port_number] [version [1   2c]	<p>This command sets the destination IP addresses, version, community string (for version 1 and version 2c), and destination port for the traps.</p> <p>The <b>severity-level</b> option is used to filter the traps based on severity.</p> <p>The <b>no</b> form of the command changes the SNMP server host configurations to the default value.</p>
[no] snmp-server v3host {ipv4-host   ipv6-host   dns} username [notifytype {traps   informs}] engineid engine-id severity-level [None   Debug   Info   Warning   Error   Critical] udp-port port_number	<p>This command specifies the recipient of the SNMP version 3 notification option.</p> <p>The <b>severity-level</b> option is used to filter the traps or informs based on severity.</p> <p>Use the <b>no</b> form of the command to remove the specified host.</p>



## Configuring the SNMP (version 1 or version 2c) server host

To set the trap destination IP addresses, version (1 or 2c), community string for SNMP version 1 and version 2c, and the destination port for the SNMP traps, perform the following steps.

1. Execute the **configure terminal** command to access the global configuration level of the CLI.

```
switch# configure terminal
Entering configuration mode terminal
```

2. Execute the following command to set the trap recipient with IP address 192.0.2.2, which receives all traps with the severity levels of Critical, Error, Info, and Warning.

```
switch(config)# snmp-server host 192.0.2.2 public severity-level Info udp-port
162 version 1
```

---

### NOTE

To receive the traps, the management station IP address must be configured on the switch.

---

3. Execute the **do show running-config snmp-server** command to verify the configuration.

```
switch(config)# do show running-config snmp-server
snmp-server contact "Field Support."
snmp-server location "End User Premise."
snmp-server sys-descr "Brocade VDX Switch."
snmp-server community ConvergedNetwork
snmp-server community OrigEquipMfr rw
snmp-server community "Secret C0de" rw
snmp-server community common
snmp-server community private rw
snmp-server community public
snmp-server host 192.0.2.2 public
udp-port 162
severity-level Info
```

## Configuring the SNMPv3 server

Use the **snmp-server v3-host** command to specify the recipient of SNMP version 3 notifications: traps or informs. The following example explains the procedure to configure the recipient of the SNMPv3 informs.

To configure the SNMPv3 host to receive the inform, perform the following steps.

1. Execute the **configure terminal** command to access the global configuration level of the CLI.

```
switch# configure terminal
Entering configuration mode terminal
```

2. Execute the following command to set the inform recipient with IP address 192.0.2.2, which receives all traps with the severity levels of Critical, Error, Info, and Warning.

```
switch(config)# snmp-server v3host 192.0.2.2 snmpadmin1 notifytype informs
engineid 80:00:05:23:01:AC:1A:01:79 severity-level Info udp-port 4425
```

---

### NOTE

To receive the SNMP informs, the username, the authentication protocol, the privacy protocol, the UDP port number, and the engine ID must match between the switch and the management station.

---

# 1 Commands for displaying, clearing, and configuring the message logs

3. Execute the **show running-config snmp-server** command to verify the configuration.

```
switch# show running-config snmp-server
snmp-server contact "Field Support."
snmp-server location "End User Premise."
snmp-server sys-descr "Brocade VDX Switch."
snmp-server community ConvergedNetwork
snmp-server community OrigEquipMfr rw
snmp-server community "Secret C0de" rw
snmp-server community common
snmp-server community private rw
snmp-server community public
snmp-server user snmpadmin1 auth md5 auth-password
"5MmR2qGjoryjusN9GL5kUw==\n" priv DES priv-password
"2ThfbBNgPsCyI25tLI2yxA==\n" encrypted
snmp-server user snmpadmin2 groupname snmpadmin
snmp-server user snmpadmin3 groupname snmpadmin
snmp-server user snmpuser2
snmp-server user snmpuser3
snmp-server v3host 192.0.2.2 snmpadmin1
udp-port 4425
notifytype informs
engineid 80:00:05:23:01:AC:1A:01:79
severity-level Info
!
```

## Commands for displaying, clearing, and configuring the message logs

Table 5 describes commands that you can use to view or configure various message logs. Most commands require the admin access level. For detailed information on required access levels and commands, refer to the *Network OS Command Reference*.

**TABLE 5** Commands for viewing or configuring the message logs

Command	Description
<b>clear logging auditlog</b>	This command clears the Audit log messages from the local switch or the specified switches.
<b>clear logging raslog</b>	This command clears the error log messages from the local switch or the specified switches.
<b>logging auditlog class</b>	This command sets the event classes for Audit log messages.
<b>logging raslog console</b>	This command sets a filter based on the severity level for the messages to be displayed on the system console.
<b>logging syslog-facility local</b>	This command sets the syslog facility.
<b>logging syslog-server</b>	This command configures a syslog server to which the switch can forward the messages.
<b>show logging auditlog</b>	<p>This command displays the Audit log messages on the local switch or the specified switches.</p> <p><b>NOTE:</b> This command can be disruptive because it displays all the logs in the buffer continuously. Use <b>  more</b> to see output page by page.</p>

**TABLE 5** Commands for viewing or configuring the message logs (Continued)

Command	Description
<b>show logging raslog</b>	This command displays the error log message on the local switch, the specified switch, or interface module. The command includes options to filter the messages based on the message attribute and the severity level, and also to set the count of messages to display, and to display messages in reverse order.  <b>NOTE:</b> This command can be disruptive because it displays all the logs in the buffer continuously. Use <b>  more</b> to see output page by page.
<b>show running-config logging</b>	This command is used to display the logging settings on the local switch.
<b>show running-config logging auditlog class</b>	This command displays the event class configured for the Audit log.
<b>show running-config logging raslog</b>	This command displays the RASLog console severity level on the local switch or the specified switch.
<b>show running-config logging syslog-facility</b>	This command displays the syslog facility level.

## Configuring system messages and attributes

This section provides information on configuring the system message logs and its attributes.

### Disabling a RASLog message or module

To disable a single RASLog message or all messages in a module, perform the following steps.

1. Log in to the switch as admin.
2. Use the following commands to disable a single RASLog message or all messages that belong to a module:

- Execute the **logging raslog message message\_ID suppress** command to disable a RASLog message. For example, execute the following command to disable the NS-1001 message:

```
switch:admin> logging raslog message NS-1001 suppress
2012/07/20-13:28:37, [LOG-1007], 375, M1, INFO, switch, Log message
NS-1001 RASLOG message has been disabled.
```

Use the **show running-config logging raslog message message\_ID** command to verify the status of the message.

- Execute the **logging raslog module module\_ID** command to disable all messages in a module. For example, execute the following command to disable all messages that belong to the NSM module:

```
switch:admin> logging raslog module NSM
2012/07/20-13:28:37, [LOG-1007], 375, CHASSIS, INFO, switch, Log Module
NSM module RASLOG message has been suppress.
```

Use the **show running-config logging raslog module module\_ID** command to verify the status of the messages that belong to a module.

## Enabling a RASLog message or module

To enable a single RASLog message or all messages in a module that were previously disabled, perform the following steps.

1. Log in to the switch as admin.
2. Use the following commands to enable a single RASLog message or all messages that belong to a module:

- Execute the **no logging raslog message message\_ID suppress** command to enable a single RASLog message that has been disabled. For example, execute the following command to enable the NS-1001 message that was previously disabled:

```
switch:admin> no logging raslog message NS-1001 suppress
2012/07/20-13:24:43, [LOG-1008], 374, M1, INFO, switch, Log Module NS-1001
RASLOG message has been enabled.
```

Use the **show running-config logging raslog message message\_ID** command to verify the status of the message.

- Execute the **no logging raslog module module\_ID** command to enable all messages in a module. For example, execute the following command to enable to all previously disabled the NSM messages:

```
switch:admin> no logging raslog module NSM
2012/07/20-13:24:43, [LOG-1008], 374, M1, INFO, switch, Log Module NSM has
been enabled.
```

Use the **show running-config logging raslog module module\_ID** command to verify the status of the messages that belong to a module.

## Setting the severity level of a RASLog message

To change the default severity level of a RASLog message, perform the following steps.

1. Log in to the switch as admin.
2. Use the **logging raslog message message\_ID severity [CRITICAL | ERROR | WARNING | INFO]** command to change the severity level of a message. For example, execute the following command to change the severity level of the SEC-1203 message to WARNING.

```
switch:admin> logging raslog message SEC-1203 severity WARNING
```

3. Use the **show running-config logging raslog message message\_ID severity** command to verify the severity of the message.

```
switch:admin> show running-config logging raslog message SEC-1203 severity
WARNING
```

## Viewing and clearing the RASLog messages

You can display system messages using the **show logging raslog** command. This command provides options to filter the messages by attribute, message type, severity, or message count. You can also specify to display messages for a single module by using the **blade** option. Use the **clear logging raslog** command to delete the system messages.

## Displaying the RASLog messages

To display the saved RASLog messages, perform the following steps.

1. Log in to the switch as admin.
2. Enter the **show logging raslog** command at the command line.

```
switch# show logging raslog
NOS: v4.0.0
2012/06/04-22:57:00, [HASM-1108], 94,, INFO, VDX6720-24, All service instances
become active.

2012/06/04-22:57:03, [DCM-1002], 96,, INFO, VDX6720-24, PostBoot processing on
global config has started.

2012/06/04-22:57:05, [BL-1000], 100,, INFO, VDX6720-24, Initializing ports...

2012/06/13-05:10:22, [NSM-1004], 4428, DCE, INFO, sw0, Interface Vlan 1 is
created.

2012/06/13-05:10:24, [DOT1-1013], 4435, DCE, INFO, sw0, DOT1X test timeout
value is set to 10.

2012/06/13-05:10:24, [ONMD-1002], 4437, DCE, INFO, sw0, LLDP global
configuration is changed.

2012/06/13-05:10:28, [RAS-2001], 4438,, INFO, sw0, Audit message log is
enabled.
[...]
```

## Displaying the messages on an interface module

To display the saved messages for a specific interface module, line card (LC), or management module, perform the following steps.

1. Log in to the switch as admin.
2. Enter the **show logging raslog blade** command at the command line. You can filter messages based on the severity level using the **severity** option. The following example filters messages by the severity level of info.

```
switch# show logging raslog blade LC2 severity info
NOS: v4.0.0
2012/05/29-11:43:06, [HASM-1004], 6919, L2, INFO, VDX8770-4, Processor
rebooted - Reset.

2012/05/29-11:43:06, [HASM-1104], 6920, L2, INFO, VDX8770-4, Heartbeat to M2
up.

2012/05/29-11:43:10, [HASM-1004], 6921, L2, INFO, VDX8770-4, Processor
rebooted - Reset.
2012/05/29-11:43:10, [HASM-1104], 6922, L2, INFO, VDX8770-4, Heartbeat to M2
up.
[...]
```

## 1 Viewing and clearing the RASLog messages

### Clearing the RASLog messages

To clear the RASLog messages for a particular switch instance, perform the following steps.

1. Log in to the switch as admin.
2. Execute the **clear logging raslog** command to clear all messages from the switch.

### Viewing and clearing the SYSTEM messages

This section provides information on viewing and clearing the SYSTEM messages saved on the switch memory.

#### *Displaying the SYSTEM messages*

To display the messages saved in the SYSTEM storage repository, perform the following steps.

1. Log in to the switch as admin.
2. Enter the **show logging raslog message-type SYSTEM** command at the command line.

```
switch# show logging raslog message-type SYSTEM
NOS: v4.0.0
```

```
2011/09/14-04:52:05, [LOG-1003], 1,, INFO, VDX6720-60, SYSTEM error log has
been cleared.
```

```
2011/09/14-04:56:18, [DCM-1101], 2,, INFO, VDX6720-60, Copy running-config to
startup-config operation successful on this node.
```

```
2011/09/14-05:05:21, [RAS-1007], 5,, INFO, VDX6720-60, System is about to
reboot.
[...]
```

#### *Clearing the SYSTEM messages*

To clear the messages saved in the SYSTEM storage repository, perform the following steps.

1. Log in to the switch as admin.
2. Execute the **clear logging raslog message-type SYSTEM** command to clear all system messages from the local switch.

### Viewing and clearing the DCE messages

This section provides information on viewing and clearing the DCE messages saved on the switch memory.

#### *Displaying the DCE messages*

To display the saved DCE messages, perform the following steps.

1. Log in to the switch as admin.
2. Enter the **show logging raslog message-type DCE** command at the command line.

```
switch# show logging raslog message-type DCE
```

```

NOS: v4.0.0
2012/05/30-21:25:34, [NSM-1004], 41, M1 | DCE, INFO, switch, Interface Vlan
4093 is created.

2012/05/30-21:25:34, [NSM-1019], 42, M1 | DCE, INFO, switch, Interface Vlan
4093 is administratively up.

2012/05/30-21:25:52, [DOT1-1013], 50, M1 | DCE, INFO, switch, DOT1X test
timeout has set to 10.

2012/05/30-21:25:52, [ONMD-1002], 59, M1 | DCE, INFO, switch, LLDP global
configuration is changed.

2012/05/30-21:25:53, [SSMD-1602], 63, M1 | DCE, INFO, switch, Class map
default is created.

2012/05/30-21:25:55, [NSM-1004], 58, M1 | DCE, INFO, switch, Interface Vlan
1002 is created.

2012/05/30-21:25:55, [ONMD-1002], 59, M1 | DCE, INFO, switch, LLDP global
configuration is changed.

2012/05/30-21:25:59, [SSMD-1602], 63, M1 | DCE, INFO, switch, Class map
default is created

[...]

```

### *Clearing the DCE messages*

To clear the DCE messages for a particular switch instance, perform the following steps.

1. Log in to the switch as admin.
2. Execute the **clear logging raslog message-type DCE** command to clear all DCE messages from the local switch.

## Displaying the VCS messages

This section provides information on viewing the VCS messages saved on the switch memory.

To display the saved VCS messages, perform the following steps.

1. Log in to the switch as admin.
2. Enter the **show logging raslog attribute VCS** command at the command line.

```

switch# show logging raslog attribute VCS
NOS: v4.0.0
2012/06/05-03:00:18:101601, [VCS-1009], 8002/3929, VCS, INFO, VDX6720-60,
Event: VCS node disconnect, Coordinator IP: 192.0.2.15, VCS Id: 1, Status:
Rbridge-id 3 (192.0.2.2) disconnected from VCS cluster.

2012/06/05-03:04:11:621996, [VCS-1005], 8051/3935, VCS, INFO, VDX6720-60,
Event: VCS node rejoin, Coordinator IP: 192.0.2.15, VCS Id: 1, Status:
Rbridge-id 3 (192.0.2.2) rejoined VCS cluster.

[...]

```

## 1 Viewing, clearing, and configuring Audit log messages

### Displaying the FFDC messages

This section provides information on viewing the FFDC messages saved on the switch memory.

To display the saved FFDC messages, perform the following steps.

1. Log in to the switch as admin.
2. Enter the **show logging raslog attribute FFDC** command at the command line.

```
switch# show logging raslog attribute FFDC
NOS: v4.0.0
2012/06/15-10:39:02, [LOG-1002], 4496, FFDC, WARNING, VDX6720-24, A log
message was not recorded.

2012/06/15-10:39:18, [RAS-1001], 4496, FFDC, WARNING, VDX6720-24, First
failure data capture (FFDC) event occurred.
[...]
```

## Viewing, clearing, and configuring Audit log messages

This section provides information on viewing, clearing, and configuring the Audit log messages.

### Displaying the Audit messages

To display the saved Audit messages, perform the following steps.

1. Log in to the switch as admin.
2. Enter the **show logging auditlog** command at the command line.

You can also display messages in reverse order using the **reverse** option.

```
switch# show logging auditlog

0 AUDIT,2011/08/26-07:51:29 (GMT), [RAS-2001], INFO, SYSTEM,
NONE/root/NONE/None/CLI,, switch, Audit message log is enabled.

1 AUDIT,2011/08/26-07:51:29 (GMT), [RAS-2003], INFO, SYSTEM,
NONE/root/NONE/None/CLI,, switch, Audit message class configuration has been
changed to 2,6,4,.

2 AUDIT,2011/08/26-07:51:32 (GMT), [DCM-2001], INFO, DCMCFG,
root/none/127.0.0.1/rpc/cli,, VDX6720-24, Event: noscli start, Status:
success, Info: Successful login attempt through console from 127.0.0.1.

3 AUDIT,2011/08/26-07:51:34 (GMT), [DCM-2001], INFO, DCMCFG,
admin/admin/127.0.0.1/rpc/cli,, VDX6720-24, Event: noscli start, Status:
success, Info: Successful login attempt through console from 127.0.0.1.

4 AUDIT,2011/08/26-07:51:36 (GMT), [DCM-2002], INFO, DCMCFG,
admin/admin/127.0.0.1/rpc/cli,, VDX6720-24, Event: noscli exit, Status:
success, Info: Successful logout by user [admin].
[...]
```



## Clearing the Audit messages

To clear the Audit log messages for a particular switch instance, perform the following steps.

1. Log in to the switch as admin.
2. Execute the **clear logging auditlog** command to clear all messages on the switch memory.

## Configuring event auditing

The Audit log classes SECURITY, CONFIGURATION, and FIRMWARE are enabled by default. You can enable or disable auditing of these classes using the **logging auditlog class class** command.

To configure and verify the event auditing, perform the following steps.

1. Execute the **configure terminal** command to access the global configuration level of the CLI.  

```
switch# configure terminal
Entering configuration mode terminal
```
2. Configure the event classes you want to audit. For example, to audit the CONFIGURATON class, execute the following command.

You can choose one of the following event classes: CONFIGURATION, FIRMWARE, or SECURITY.

```
switch(config)# logging auditlog class CONFIGURATION
```

3. Execute the **show running-config logging auditlog class** command to verify the configuration.

```
switch# show running-config logging auditlog class
logging auditlog class CONFIGURATION
```

# Understanding the RASLog messages

This section provides information about reading the RASLog messages.

## RASLog messages

The following example shows the format of a RASLog message.

```
<Timestamp>, [<Event ID>], <Sequence Number>, <Flags>,<Severity>,<Switch name>,<Event-specific information>
```

The following example shows the sample messages from the error log.

```
2011/08/23-22:58:10, [IPAD-1000], 2,, INFO, VDX6720-24, SW/0 Ether/0 IPv4 DHCP
10.24.95.252/20 DHCP On.
```

```
2012/05/30-21:26:00, [FCOE-1035], 67, M1 | DCE, INFO, sw0, Virtual FCoE port 1/1/4
is online.
```

```
2011/08/26-12:39:02, [HAM-1007], 2, FFDC, CRITICAL, VDX6720-24, Need to reboot the
system for recovery, reason: raslog-test-string0123456-raslog.
```

```
2011/08/26-12:40:01, [VCS-1003], 7013/3454, VCS, INFO, VDX6720-60, Event: VCS
node add, Coordinator IP: 10.17.10.31, VCS ID: 1, Status: rBridge ID 1
(10.17.10.32) added to VCS cluster., VcsFabAddRejoin, line: 1450, comp:dcmd,
ltime:2011/06/27-02:47:04:555942.
```

# 1 Understanding the RASLog messages

The fields in the error message are described in [Table 6](#).

**TABLE 6** RAS message field description

Variable name	Description
Timestamp	The system time (UTC) when the message was generated on the switch. The RASLog subsystem supports an internationalized time stamp format base on the “LOCAL” setting.
Event ID	The Event ID is the message module and number. These values uniquely identify each message in the Network OS and reference the cause and actions recommended in this manual. Note that not all message numbers are used; there can be gaps in the numeric message sequence.
Sequence Number	The error message position in the log. When a new message is added to the log, this number is incremented by 1. The message sequence number starts at 1 after a <b>firmware download</b> and increases up to a value of 2,147,483,647 (0x7fffffff). The sequence number continues to increase after the message log wraps around; that is, the oldest message in the log is deleted when a new message is added. The message sequence numbering is not split for the system and DCE message logs. The sequence number can be reset to 1 using the <b>clear logging raslog</b> command. However, the sequence number is not reset if you clear a particular message type, for example, DCE. The sequence number is persistent across power cycles and switch reboots.
Flags	For most messages, this field contains a space character (null value) indicating that the message is neither a DCE, FFDC, or VCS message. Messages may contain the following values: <ul style="list-style-type: none"><li>• DCE—Indicates a message generated by the protocol-based modules.</li><li>• FFDC—Indicates that additional first failure data capture information has also been generated for this event.</li><li>• VCS—Indicates a VCS message generated by a switch in the Brocade VCS fabric.</li></ul>
Severity	The severity level of the message, which can be one of the following: <ul style="list-style-type: none"><li>• CRITICAL</li><li>• ERROR</li><li>• WARNING</li><li>• INFO</li></ul>
Switch name	The defined switch name or the chassis name of the switch. This value is truncated if it exceeds 16 characters in length.
Event-specific information	A text string explaining the error encountered and provides the parameters supplied by the software at runtime.

## Audit event messages

Compared to Log error messages, messages flagged as AUDIT provide additional user and system-related information of interest for post-event auditing and problem determination.

The following example shows the format of the Audit event message.

```
<Sequence Number> AUDIT, <Timestamp>, [<Event ID>], <Severity>, <Event Class>,  
<User ID>/<Role>/<IP address>/<Interface>/<app name>, <Reserved field for future  
expansion>, <Switch name>, <Event-specific information>
```

The following is a sample Audit event message.

```
0 AUDIT,2011/08/26-07:51:32 (GMT), [DCM-2001], INFO, DCMCFG,  
root/none/127.0.0.1/rpc/cli,, VDX6720-24, Event: noscli start, Status: success,  
Info: Successful login attempt through console from 127.0.0.1.
```

The fields in the Audit event message are described in [Table 7](#).

**TABLE 7** Audit message field description

Variable name	Description
Sequence Number	The error message position in the log.
AUDIT	Identifies the message as an Audit message.
Timestamp	The system time (UTC) when the message was generated on the switch. The RASLog subsystem supports an internationalized time stamp format base on the "LOCAL" setting.
Event ID	The Event ID is the message module and number. These values uniquely identify each message in the Network OS and reference the cause and actions recommended in this manual. Note that not all message numbers are used; there can be gaps in the numeric message sequence.
Severity	The severity level of the message, which can be one of the following: <ul style="list-style-type: none"> <li>• CRITICAL</li> <li>• ERROR</li> <li>• WARNING</li> <li>• INFO</li> </ul>
Event Class	The event class, which can be one of the following: <ul style="list-style-type: none"> <li>• DCMCFG</li> <li>• FIRMWARE</li> <li>• SECURITY</li> </ul>
User ID	The user ID.
Role	The role of the user.
IP Address	The IP address.
Interface	The interface being used.
Application Name	The application name being used on the interface.
Reserved field for future expansion	This field is reserved for future use and contains a space character (null value).
Switch name	The defined switch name or the chassis name of the switch. This value is truncated if it is over 16 characters in length.
Event-specific information	A text string explaining the error encountered and provides the parameters supplied by the software at runtime.

## Responding to a RASLog message

This section provides procedures on gathering information on RASLog messages.

### Looking up a message

Messages in this manual are arranged alphabetically by Module ID, and then numerically within a given module. To look up a message, copy down the module (see [Table 8](#) on page 21) and the error code and compare this with the Table of Contents or look up lists to determine the location of the information for that message.

# 1 Responding to a RASLog message

The following information is provided for each message:

- Module and code name for the error
- Message text
- Message type
- Class (for Audit messages only)
- Message severity
- Probable cause
- Recommended action

## Gathering information about the problem

The following are the common steps and questions to ask yourself when troubleshooting a system message:

- What is the current Network OS version?
- What is the switch hardware version?
- Is the switch operational?
- Assess impact and urgency:
  - Is the switch down?
  - Is it a standalone switch?
  - How large is the fabric?
  - Is the fabric redundant?
- Execute the **show logging raslog** command on each switch.
- Execute the **copy support** command.
- Document the sequence of events by answering the following questions:
  - What happened just before the problem?
  - Is the problem repeatable?
  - If so, what are the steps to produce the problem?
  - What configuration was in place when the problem occurred?
- Did a failover occur?
- Was Power-On Self-Test (POST) enabled?
- Are serial port (console) logs available?
- What and when were the last actions or changes made to the system?

## Support

Network OS creates several files that can help support personnel troubleshoot and diagnose a problem. This section describes those files and how to access and save the information for support personnel.

### *Panic dump, core dump, and FFDC data files*

The Network OS creates panic dump files, core files, and FFDC data files when there are problems in the Network OS kernel. You can view files using the **show support** command. These files can build up in the persistent storage and may need to be periodically deleted or downloaded using the **copy support** command.

The software watchdog (SWD) process is responsible for monitoring daemons critical to the function of a healthy switch. The SWD holds a list of critical daemons that ping the SWD periodically at a predetermined interval defined for each daemon.

If a daemon fails to ping the SWD within the defined interval, or if the daemon terminates unexpectedly, then the SWD dumps information to the panic dump files, which helps to diagnose the root cause of the unexpected failure.

Execute the **show support** command to view these files or the **copy support ftp** command to send them to a host workstation using FTP. The panic dump files, core files, and FFDC data files are intended for support personnel use only.

### *Trace dumps*

The Network OS produces trace dumps when problems are encountered within Network OS modules. The Network OS trace dump files are intended for support personnel use only. You can use the **copy support** command to collect trace dump files to a specified remote location to provide support when requested.

### *Using the copy support command*

The **copy support** command is used to send the output of the RASLog messages, the trace files, and the output of the **copy support** command to an off-switch storage location through FTP. You can upload supportsave data from the local switch to an external host or you can save the data on an attached USB device. The **copy support** command runs a large number of dump and show commands to provide a global output of the status of the switch. Refer to the *Network OS Command Reference* for more information on the **copy support** command.

## System module descriptions

[Table 8](#) provides a summary of the system modules for which messages are documented in this reference guide; a module is a subsystem in the Network OS. Each module generates a set of numbered messages.

**TABLE 8** System module descriptions

System module	Description
AUTH	AUTH messages indicate problems with the authentication module of the Network OS.
BGP	BGP messages indicate problems with the Border Gateway Protocol (BGP) module of the Network OS.
BL	BL messages are a result of faulty hardware, transient out-of-memory conditions, ASIC errors, or inconsistencies in the software state between an interface module and the environment monitor (EM) module.
BLL	Bloom is the name of the ASIC used as the building block for third-generation hardware platforms.

# 1 System module descriptions

**TABLE 8** System module descriptions (Continued)

System module	Description
C2	C2 error messages indicate problems with the 8 Gbps-capable FC module of the Network OS.
C3	C3 error messages indicate problems with the 16 Gbps-capable FC module of the Network OS.
CBR	CBR error messages indicate problems with the ASIC driver of Network OS.
CHS	CHS messages report the problems in the management of the interface modules in the different slots of the chassis.
DCM	Distributed Configuration Manager (DCM) messages indicate major switch bootup events, user login or logout, and the configuration operations.
DOT1	DOT1 messages indicate problems with the 802.1x authentication module of the Network OS.
EANV	EANV messages indicate any issues associated with eAnvil ASIC operation and eAnvil ASIC driver operations.
ELD	End Loop Detection (ELD) messages notify a loop in the Layer 2 network and the status of the port on which the loop is detected.
EM	The environmental monitor (EM) manages and monitors the various field-replaceable units (FRUs), including the port cards, blower assemblies, power supplies, and World Wide Name (WWN) cards. EM controls the state of the FRUs during system startup, hot-plug sequences, and fault recovery. EM provides access to and monitors the sensor and status data from the FRUs and maintains the integrity of the system using the environmental and power policies. EM reflects system status by way of CLI commands, system light emitting diodes (LEDs), and status and alarm messages. EM also manages some component-related data.
ERCP	ERCP messages indicate any problems associated with Double Data Rate (DDR) errors.
ESS	Exchange Switch Support (ESS) error messages indicate problems with the ESS module of the Network OS. ESS is an SW_ILS mechanism utilized by switches to exchange vendor and support information.
FABR	FABR (network of Fibre Channel switches) messages come from the fabric daemon. The fabric daemon follows the FC-SW-3 standard for the fabric initialization process, such as determining the E_Ports, assigning unique domain IDs to switches, creating a spanning tree, throttling the trunking process, and distributing the domain and alias lists to all switches in the fabric.
FABS	FABS messages indicate problems in the fabric system driver module.
FCMC	Fibre Channel miscellaneous messages relate to problems with the physical layer used to send Fibre Channel traffic to and from the switch.
FCOE	FCOE error messages indicate problems with the Fibre Channel over Ethernet (FCoE) module of the Network OS.
FCPH	The Fibre Channel Physical Layer is used to send Fibre Channel traffic to and from the switch.
FLOD	FLOD is a part of the fabric shortest path first (FSPF) protocol that handles synchronization of the link state database (LSDB) and propagation of the link state records (LSRs).
FSPF	Fabric shortest path first (FSPF) is a link state routing protocol that is used to determine how frames should be routed. FSPF messages are about protocol errors.

**TABLE 8** System module descriptions (Continued)

System module	Description
FSS	The fabric state synchronization framework provides facilities by which the active management module can synchronize with the standby management module, enabling the standby management module to take control of the switch nondisruptively during failures and software upgrades. These facilities include version negotiation, state information transfer, and internal synchronization functions, enabling the transition from standby to active operation. FSS is defined both as a component and a service. A component is a module in the Network OS, implementing a related set of functionality. A service is a collection of components grouped together to achieve a modular software architecture.
FVCS	The Fabric Services VCS (FVCS) daemon provides fabric distribution services for VCS and Virtual Link Aggregation Group (vLAG).
FW	FW messages indicate the warnings when the temperature, voltage, fan speed, and switch status thresholds are exceeded for the switch subsystems.
HASM	HASM is the infrastructure for the High Availability System Management, which has the functionality to maintain the cluster of high availability switch platforms, deploy and start multiple service instances with active and standby redundancy in a distributed clustering environment, manage the state synchronizations, and the non-disruptive failovers between active and standby management modules, host the non-disruptive firmware upgrade context, and support the software watchdog and daemon restart.
HAWK	HAWK is a component that connects the fabric ASIC.
HIL	HIL messages indicate any issues associated with the Hardware Independent Layer (HIL) for general platform components, such as Environmental Monitoring (EM), fan and power supply unit (PSU) subsystems, and other platform FRUs.
HLO	HLO is a part of the fabric shortest path first (FSPF) protocol that handles the HELLO protocol between adjacent switches. The HELLO protocol is used to establish connectivity with a neighbor switch, to establish the identity of the neighbor switch, and to exchange FSPF parameters and capabilities.
HSL	HSL messages indicate problems with the Hardware Subsystem Layer (HSL) of the Network OS.
IGMP	IGMP messages indicate any issue associated with the Internet Group Management Protocol (IGMP) snooping feature.
IPAD	IPAD messages are generated by the IP admin demon.
KTRC	KTRC messages indicate any problem associated with the RAS-TRACE facility, which provide Brocade internal information to diagnose a failure.
L2AG	L2AG messages indicate problems with the Layer 2 system agent module. L2SS and L2AG together control the Layer 2 forwarding engine and are responsible for MAC learning, aging, and forwarding functionalities.
L2SS	L2SS messages indicate problems with the Layer 2 system manager module. L2SS and L2AG together control the Layer 2 forwarding engine and are responsible for MAC learning, aging, and forwarding functionalities.
LACP	LACP error messages indicate problems with the Link Aggregation Control Protocol module of the Network OS.
LIC	LIC messages indicate problems with the licensing module.
LOG	LOG messages describe events and problems associated with the RASLog and Audit log facilities.
LSDB	The link state database is a part of the FSPF protocol that maintains records on the status of port links. This database is used to route frames.
MCST	MCST messages indicate any problems associated with the Layer 2 and Layer 3.

# 1 System module descriptions

**TABLE 8** System module descriptions (Continued)

System module	Description
MPTH	Multicast path uses the shortest path first (SPF) algorithm to dynamically compute a broadcast tree.
MS	The Management Service (MS) enables the user to obtain information about the Fibre Channel fabric topology and attributes by providing a single management access point.
MSTP	MSTP messages indicate problems with Multiple Spanning Tree Protocol (MSTP) modules of the Network OS.
NBFS	NBFSM is a part of the fabric shortest path first (FSPF) protocol that handles a neighboring or adjacent switch's finite state machine (FSM). Input to the FSM changes the local switch from one state to another, based on specific events. For example, when two switches are connected to each other using an interswitch link (ISL) cable, they are in the Init state. After both switches receive HELLO messages, they move to the Database Exchange state, and so on.
NS	NS messages indicate problems with the simple Name Server module.
NSM	NSM messages indicate problems with the interface management and VLAN management module of the Network OS.
ONMD	ONMD messages indicate problems with the Operation, Administration and Maintenance module of the Network OS.
OSPF	OSPF messages indicate information or problems with the OSPF module of the Network OS.
PCAP	PCAP messages indicate the status or information about the packet capture module.
PDM	Parity data manager (PDM) is a user-space daemon responsible for the replication of persistent configuration files from the primary partition to the secondary partition and from the active management module to the standby management module.
PHP	PHP messages indicate any important information associated with the discovery and creation, deletion, and updating of the port profiles.
PIM	PIM messages indicate problems with the Protocol-Independent Multicast (PIM) module.
PLAT	PLAT messages indicate hardware problems.
PORT	PORT messages refer to the front-end user ports on the switch. Front-end user ports are directly accessible by users to connect end devices or connect to other switches.
QOSD	QOSD messages indicate problems with the Quality of Service (QoS) module.
RAS	RAS messages notify when first failure data capture (FFDC) events are logged to the FFDC log, and size or roll-over warnings.
RCS	The reliable commit service (RCS) daemon generates log entries when it receives a request from the zoning or security server for passing data messages to switches. RCS then requests reliable transport write and read (RTWR) to deliver the message. RCS also acts as a gatekeeper, limiting the number of outstanding requests for the Zoning or Security modules.
RTM	Route Manager (RTM) messages indicate status or errors while updating or maintaining the route and next-hop database.
RTWR	The reliable transport write (RTWR) and read daemon helps deliver data messages either to specific switches in the fabric or to all the switches in the fabric. For example, if some of the switches are not reachable or are offline, RTWR returns an "unreachable" message to the caller, allowing the caller to take the appropriate action. If a switch is not responding, RTWR retries 100 times.
SCN	The internal state change notification daemon is used for state change notifications from the kernel to the daemons within Network OS.



**TABLE 8** System module descriptions (Continued)

System module	Description
SEC	SEC messages indicate security errors, warnings, or information during security-related data management or fabric merge operations. Administrators must watch for these messages to distinguish between internal switch and fabric operation errors and external attack.
SFLO	sFlow is a standards-based sampling technology embedded within switches and routers, which is used to monitor high speed network traffic. sFlow uses two types of sampling: <ul style="list-style-type: none"> <li>• Statistical packet-based sampling of switched or routed packet flows.</li> <li>• Time-based sampling of interface counters.</li> </ul> SFLO messages indicate errors or information related to the sflow daemon.
SLCD	SLCD messages provide wear level statistics of the western digital (WD) SiliconDrive 2 compact flash.
SNMP	Simple Network Management Protocol (SNMP) is a universally supported low-level protocol that allows simple get, get next, and set requests to go to the switch (acting as an SNMP agent). It also allows the switch to send traps to the defined and configured management station. Brocade switches support four management entities that can be configured to receive these traps or informs. SNMP messages indicate problems in the SNMP operations.
SS	SS messages indicate problems during the execution of the <b>copy support</b> command.
SSMD	SSMD messages indicate problems with the System Services Module (SSM) of the Network OS.
SULB	The software upgrade library provides the <b>firmware download</b> command capability, which enables firmware upgrades as well as nondisruptive code load to the switches. SULB messages may display if there are any problems during the <b>firmware download</b> procedure.
SWCH	SWCH messages are generated by the switch driver module that manages a Fibre Channel switch instance.
TOAM	TRILL OAM (TOAM) messages indicate problems with the <b>I2traceroute</b> family of commands that help in VCS cluster data path troubleshooting.
TRCE	TRCE messages describe events and problems associated with the tracedump facility.
TS	Time Service (TS) provides switch time-synchronization by synchronizing all clocks in the network. The TS messages indicate information or errors during the switch time synchronization.
UCST	UCST is a part of the fabric shortest path first (FSPF) protocol that manages the unicast routing table.
UDLD	UDLD messages indicate problems with the UniDirectional Link Detection (UDLD) module of the Network OS.
UPATH	UPATH is a part of the FSPF protocol that uses the SPF algorithm to dynamically compute a unicast tree.
VC	VC messages indicate any important information related to the vCenter CLI and its plugins.
VCS	VCS messages indicate major events related to VCS cluster formation and node operations.
VRRP	VRRP messages indicate information or problems with the VRRP module of the Network OS.
WLV	Wolverine (WLV) ASIC is a component that connects the front-end port. WLV messages indicate failures in the front-end port.
ZONE	ZONE messages indicate any problems associated with the zoning features, including commands associated with aliases, zones, and configurations.

# 1 System module descriptions

# Log Messages

---

## AUTH Messages

AUTH-1001

AUTH-1002

AUTH-1003

AUTH-1004

AUTH-1006

AUTH-1007

AUTH-1010

AUTH-1012

AUTH-1013

AUTH-1014

AUTH-1017

AUTH-1018

AUTH-1020

AUTH-1022

AUTH-1025

AUTH-1026

AUTH-1027

AUTH-1028

AUTH-1029

AUTH-1030

AUTH-1031

AUTH-1032

AUTH-1033

AUTH-1034

AUTH-1035

AUTH-1036

AUTH-1037

AUTH-1039

AUTH-1040

AUTH-1041

AUTH-1042

AUTH-1044

### BGP Messages

[BGP-1001](#)  
[BGP-1002](#)  
[BGP-1003](#)  
[BGP-1004](#)

### BL Messages

[BL-1000](#)  
[BL-1001](#)  
[BL-1002](#)  
[BL-1003](#)  
[BL-1004](#)  
[BL-1006](#)  
[BL-1007](#)  
[BL-1008](#)  
[BL-1009](#)  
[BL-1010](#)  
[BL-1011](#)  
[BL-1012](#)  
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[BL-1037](#)

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[BL-1045](#)

[BL-1046](#)

[BL-1047](#)

## BLL Messages

[BLL-1000](#)

## C2 Messages

[C2-1004](#)

[C2-1006](#)

[C2-1007](#)

[C2-1008](#)

[C2-1009](#)

[C2-1010](#)

[C2-1011](#)

[C2-1012](#)

## C3 Messages

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[C3-1006](#)

[C3-1010](#)

[C3-1011](#)

[C3-1012](#)

[C3-1014](#)

[C3-1017](#)

[C3-1019](#)

[C3-1020](#)

## CBR Messages

[CBR-1001](#)

[CBR-1002](#)

### CHS Messages

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[CHS-1003](#)  
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[CHS-1005](#)

### DCM Messages

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[DCM-1002](#)  
[DCM-1003](#)  
[DCM-1004](#)  
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[DCM-1102](#)  
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[DCM-1106](#)  
[DCM-1107](#)  
[DCM-1108](#)  
[DCM-1109](#)  
[DCM-1110](#)  
[DCM-1111](#)  
[DCM-1112](#)  
[DCM-1113](#)  
[DCM-1201](#)  
[DCM-1202](#)  
[DCM-1203](#)  
[DCM-1204](#)  
[DCM-1205](#)  
[DCM-1206](#)

DCM-1207  
DCM-1208  
DCM-1209  
DCM-1210  
DCM-1211  
DCM-1212  
DCM-3005  
DCM-3051  
DCM-3052  
DCM-4001  
DCM-4002

## EANV Messages

EANV-1001  
EANV-1002  
EANV-1003  
EANV-1004  
EANV-1005  
EANV-1006

## EM Messages

EM-1001  
EM-1002  
EM-1003  
EM-1004  
EM-1005  
EM-1006  
EM-1008  
EM-1009  
EM-1010  
EM-1011  
EM-1012  
EM-1013  
EM-1014  
EM-1015  
EM-1016  
EM-1020  
EM-1021

## 2 ERCP Messages

[EM-1022](#)  
[EM-1023](#)  
[EM-1024](#)  
[EM-1028](#)  
[EM-1029](#)  
[EM-1031](#)  
[EM-1032](#)  
[EM-1033](#)  
[EM-1034](#)  
[EM-1036](#)  
[EM-1037](#)  
[EM-1042](#)  
[EM-1043](#)  
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[EM-1050](#)  
[EM-1051](#)  
[EM-1059](#)  
[EM-1064](#)  
[EM-1068](#)  
[EM-1069](#)  
[EM-1070](#)  
[EM-2003](#)

### ERCP Messages

[ERCP-1000](#)

### ESS Messages

[ESS-1008](#)  
[ESS-1009](#)  
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### FABR Messages

[FABR-1001](#)



FABR-1003  
FABR-1004  
FABR-1005  
FABR-1006  
FABR-1007  
FABR-1008  
FABR-1009  
FABR-1010  
FABR-1012  
FABR-1013  
FABR-1014  
FABR-1019  
FABR-1029  
FABR-1030  
FABR-1039  
FABR-1041  
FABR-1055

## FABS Messages

FABS-1001  
FABS-1002  
FABS-1004  
FABS-1005  
FABS-1006  
FABS-1007  
FABS-1008  
FABS-1009  
FABS-1010  
FABS-1011  
FABS-1013  
FABS-1014  
FABS-1015

## FCMC Messages

FCMC-1001

### FCPH Messages

[FCPH-1001](#)

### FLOD Messages

[FLOD-1001](#)

[FLOD-1003](#)

[FLOD-1004](#)

[FLOD-1005](#)

[FLOD-1006](#)

### FSPF Messages

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[FSPF-1002](#)

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[FSS-1003](#)

[FSS-1004](#)

[FSS-1005](#)

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[FSS-1009](#)

[FSS-1010](#)

[FSS-1011](#)

### FVCS Messages

[FVCS-1003](#)

[FVCS-1004](#)

[FVCS-2001](#)

FVCS-2002  
FVCS-2003  
FVCS-2004  
FVCS-2005  
FVCS-2006  
FVCS-3001  
FVCS-3002  
FVCS-3003  
FVCS-3004  
FVCS-3005  
FVCS-3006  
FVCS-3007  
FVCS-3008  
FVCS-3009  
FVCS-3010  
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## FW Messages

FW-1001  
FW-1002  
FW-1003  
FW-1004  
FW-1005  
FW-1006  
FW-1007  
FW-1008  
FW-1009  
FW-1010  
FW-1012  
FW-1034  
FW-1035  
FW-1036  
FW-1038  
FW-1039  
FW-1040  
FW-1042  
FW-1043  
FW-1044

## 2 FW Messages

FW-1046  
FW-1047  
FW-1048  
FW-1050  
FW-1051  
FW-1052  
FW-1297  
FW-1298  
FW-1299  
FW-1341  
FW-1342  
FW-1343  
FW-1403  
FW-1404  
FW-1405  
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FW-1407  
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FW-1426  
FW-1427  
FW-1428  
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FW-1430  
FW-1431  
FW-1432  
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FW-1435  
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FW-1441  
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FW-1443  
FW-1444  
FW-1447  
FW-1500  
FW-1501

FW-1510  
FW-3101  
FW-3102  
FW-3103  
FW-3104  
FW-3105  
FW-3107  
FW-3108  
FW-3109  
FW-3110  
FW-3111  
FW-3113  
FW-3114  
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FW-3116  
FW-3117  
FW-3119  
FW-3120  
FW-3121  
FW-3122  
FW-3123

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HASM-1000  
HASM-1001  
HASM-1002  
HASM-1003  
HASM-1004  
HASM-1013  
HASM-1014  
HASM-1015  
HASM-1019  
HASM-1020  
HASM-1021  
HASM-1022  
HASM-1023  
HASM-1024  
HASM-1025  
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[HASM-1101](#)  
[HASM-1102](#)  
[HASM-1103](#)  
[HASM-1104](#)  
[HASM-1105](#)  
[HASM-1106](#)  
[HASM-1107](#)  
[HASM-1108](#)  
[HASM-1109](#)  
[HASM-1110](#)  
[HASM-1111](#)  
[HASM-1112](#)  
[HASM-1120](#)  
[HASM-1121](#)  
[HASM-1130](#)  
[HASM-1131](#)  
[HASM-1132](#)  
[HASM-1200](#)  
[HASM-1201](#)

### HAWK Messages

[HAWK-1002](#)

### HIL Messages

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[HIL-1301](#)  
[HIL-1302](#)  
[HIL-1404](#)  
[HIL-1505](#)  
[HIL-1506](#)  
[HIL-1510](#)  
[HIL-1511](#)  
[HIL-1512](#)  
[HIL-1521](#)  
[HIL-1522](#)  
[HIL-1523](#)  
[HIL-1524](#)

[HIL-1605](#)

## HLO Messages

[HLO-1001](#)

[HLO-1002](#)

[HLO-1003](#)

## HSL Messages

[HSL-1000](#)

[HSL-1001](#)

[HSL-1004](#)

[HSL-1006](#)

[HSL-1009](#)

## IPAD Messages

[IPAD-1000](#)

[IPAD-1001](#)

[IPAD-1002](#)

[IPAD-1003](#)

[IPAD-1004](#)

[IPAD-1005](#)

## KTRC Messages

[KTRC-1001](#)

[KTRC-1002](#)

[KTRC-1003](#)

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[KTRC-1005](#)

## LIC Messages

[LIC-1001](#)

## LOG Messages

[LOG-1000](#)

[LOG-1001](#)

[LOG-1002](#)

## 2 LSDB Messages

[LOG-1003](#)  
[LOG-1004](#)  
[LOG-1005](#)  
[LOG-1006](#)  
[LOG-1008](#)  
[LOG-1009](#)  
[LOG-1010](#)  
[LOG-1011](#)  
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### LSDB Messages

[LSDB-1001](#)  
[LSDB-1002](#)  
[LSDB-1003](#)  
[LSDB-1004](#)

### MPTH Messages

[MPTH-1001](#)  
[MPTH-1002](#)  
[MPTH-1003](#)

### MS Messages

[MS-1021](#)

### NBFS Messages

[NBFS-1001](#)  
[NBFS-1002](#)  
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### NS Messages

[NS-1006](#)  
[NS-1009](#)  
[NS-1012](#)

### PCAP Messages

[PCAP-1001](#)



[PCAP-1002](#)

[PCAP-1003](#)

[PCAP-1004](#)

## PDM Messages

[PDM-1001](#)

[PDM-1003](#)

[PDM-1004](#)

[PDM-1006](#)

[PDM-1007](#)

[PDM-1009](#)

[PDM-1010](#)

[PDM-1011](#)

[PDM-1012](#)

[PDM-1013](#)

[PDM-1014](#)

[PDM-1017](#)

[PDM-1019](#)

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## PIM Messages

[PIM-1001](#)

## PLAT Messages

[PLAT-1000](#)

[PLAT-1001](#)

[PLAT-1002](#)

[PLAT-1004](#)

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[PLAT-1006](#)

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## 2 PORT Messages

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### PORT Messages

[PORT-1003](#)

[PORT-1004](#)

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[PORT-1013](#)

[PORT-1014](#)

[PORT-1015](#)

[PORT-1016](#)

[PORT-1017](#)

### QOSD Messages

[QOSD-1000](#)

[QOSD-1001](#)

[QOSD-1005](#)

[QOSD-1006](#)

### RAS Messages

[RAS-1001](#)

[RAS-1002](#)

[RAS-1004](#)

[RAS-1005](#)

[RAS-1006](#)

[RAS-1007](#)

[RAS-1008](#)

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## RCS Messages

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[RCS-1005](#)

[RCS-1006](#)

[RCS-1007](#)

[RCS-1008](#)

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## RTWR Messages

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[RTWR-1002](#)

[RTWR-1003](#)

## SCN Messages

[SCN-1001](#)

## SEC Messages

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[SEC-1034](#)

[SEC-1036](#)

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[SEC-1180](#)

[SEC-1181](#)

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[SEC-1185](#)

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[SEC-1189](#)

[SEC-1190](#)

[SEC-1191](#)

[SEC-1192](#)

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## 2 SLCD Messages

SEC-1197  
SEC-1199  
SEC-1203  
SEC-1307  
SEC-1308  
SEC-1312  
SEC-1313  
SEC-1325  
SEC-1329  
SEC-1334  
SEC-1335  
SEC-1336  
SEC-1337  
SEC-3035  
SEC-3036  
SEC-3037  
SEC-3038  
SEC-3039  
SEC-3051  
SEC-3061  
SEC-3062  
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### SLCD Messages

SLCD-1001  
SLCD-1002  
SLCD-1003  
SLCD-1004  
SLCD-1005  
SLCD-1006  
SLCD-1007  
SLCD-1008  
SLCD-1009  
SLCD-1010  
SLCD-1011

### SNMP Messages

SNMP-1001

[SNMP-1002](#)

[SNMP-1003](#)

[SNMP-1004](#)

[SNMP-1005](#)

## SS Messages

[SS-1000](#)

[SS-1001](#)

[SS-1002](#)

[SS-1003](#)

[SS-1004](#)

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[SS-2000](#)

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## SSMD Messages

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[SULB-1101](#)

[SULB-1102](#)

[SULB-1103](#)

[SULB-1104](#)

[SULB-1105](#)

[SULB-1106](#)

[SULB-1107](#)

[SULB-1108](#)

[SULB-1109](#)

[SULB-1110](#)

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[SULB-1202](#)

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### SWCH Messages

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[SWCH-1002](#)

[SWCH-1003](#)

[SWCH-1004](#)

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[SWCH-1007](#)

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### TRCE Messages

[TRCE-1002](#)

[TRCE-1003](#)

[TRCE-1005](#)

[TRCE-1006](#)

[TRCE-1007](#)

[TRCE-1008](#)

[TRCE-1009](#)

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[UDLD-1001](#)

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## UPTH Messages

UPTH-1001

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VC-1001

VC-1002

VC-1003

VC-1004

VC-1005

VC-1006

VC-1007

VC-1008

VC-1009

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VC-1011

VC-1100

VC-1101

VC-1103

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VCS-1001

VCS-1002

VCS-1003

VCS-1004

VCS-1005

VCS-1006

VCS-1007

VCS-1008

VCS-1009

### WLV Messages

WLV-1001

WLV-1002

WLV-1003

### ZONE Messages

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ZONE-1014

ZONE-1015

ZONE-1019

ZONE-1022

ZONE-1023

ZONE-1024

ZONE-1027

ZONE-1028

ZONE-1029

ZONE-1032

ZONE-1033

ZONE-1034

ZONE-1035

ZONE-1036

ZONE-1037

ZONE-1038

ZONE-1039

ZONE-1040

ZONE-1041

ZONE-1042

ZONE-1043

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# DCE Messages

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## DOT1 Messages

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[DOT1-1006](#)

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[DOT1-1009](#)

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## ELD Messages

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## FCOE Messages

[FCOE-1001](#)

[FCOE-1010](#)

[FCOE-1019](#)

[FCOE-1020](#)

[FCOE-1022](#)

[FCOE-1023](#)

[FCOE-1024](#)

[FCOE-1029](#)

[FCOE-1030](#)

[FCOE-1032](#)

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[FCOE-1037](#)

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[IGMP-1002](#)

[IGMP-1003](#)

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### L2AG Messages

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[L2AG-1003](#)

[L2AG-1004](#)

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[L2AG-1006](#)

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### L2SS Messages

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[L2SS-1002](#)

[L2SS-1003](#)

[L2SS-1004](#)

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MCST-1003

MCST-1004

MCST-1005

MCST-1006

MCST-1007

MCST-1008

MCST-1009

MCST-1010

MCST-1011

MCST-1012

MCST-1013

MCST-1014

MCST-1015

MCST-1016

MCST-1017

MCST-1018

MCST-1019

MCST-1020

## MSTP Messages

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MSTP-1002

MSTP-1003

MSTP-1004

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[NSM-1002](#)

[NSM-1003](#)

[NSM-1004](#)

[NSM-1007](#)

[NSM-1009](#)

[NSM-1010](#)

[NSM-1011](#)

[NSM-1012](#)

[NSM-1013](#)

[NSM-1014](#)

[NSM-1015](#)

[NSM-1016](#)

[NSM-1017](#)

[NSM-1018](#)

[NSM-1019](#)

[NSM-1020](#)

[NSM-1021](#)

[NSM-1022](#)

[NSM-1023](#)

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[NSM-1025](#)

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[NSM-1027](#)

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[NSM-1030](#)

[NSM-1031](#)

[NSM-1032](#)

[NSM-1033](#)

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NSM-1035  
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NSM-1037  
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NSM-2000  
NSM-2001  
NSM-2002  
NSM-2003  
NSM-2004  
NSM-2005  
NSM-2006  
NSM-2007  
NSM-2008  
NSM-2010  
NSM-2011  
NSM-2012  
NSM-2013  
NSM-2014  
NSM-2015  
NSM-2016  
NSM-2017  
NSM-2018  
NSM-2019  
NSM-2020  
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NSM-2022  
NSM-2023  
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NSM-2026  
NSM-2027  
NSM-2028  
NSM-2029  
NSM-2030  
NSM-2031  
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NSM-2033  
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## 3 ONMD Messages

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[NSM-2036](#)

[NSM-2037](#)

[NSM-2038](#)

[NSM-2039](#)

### ONMD Messages

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[ONMD-1001](#)

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### QOSD Messages

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[RTM-1002](#)

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[RTM-1005](#)

[RTM-1021](#)

[RTM-1022](#)

[RTM-1023](#)

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## SFLO Messages

SFLO-1001  
SFLO-1002  
SFLO-1003  
SFLO-1004  
SFLO-1005  
SFLO-1006  
SFLO-1007  
SFLO-1008  
SFLO-1009  
SFLO-1010  
SFLO-1011  
SFLO-1012  
SFLO-1013  
SFLO-1014  
SFLO-1015

## SSMD Messages

SSMD-1001  
SSMD-1002  
SSMD-1003  
SSMD-1004  
SSMD-1005  
SSMD-1006  
SSMD-1007  
SSMD-1008  
SSMD-1400  
SSMD-1401  
SSMD-1402  
SSMD-1403  
SSMD-1404  
SSMD-1405  
SSMD-1406  
SSMD-1407  
SSMD-1408  
SSMD-1436  
SSMD-1437  
SSMD-1438

## 3 TOAM Messages

[SSMD-1439](#)  
[SSMD-1471](#)  
[SSMD-1500](#)  
[SSMD-1536](#)  
[SSMD-1571](#)  
[SSMD-1750](#)  
[SSMD-1752](#)  
[SSMD-1900](#)  
[SSMD-1901](#)  
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### TOAM Messages

[TOAM-1000](#)  
[TOAM-1003](#)

### VRRP Messages

[VRRP-1001](#)  
[VRRP-1002](#)  
[VRRP-1003](#)  
[VRRP-1004](#)  
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[AUTH-1044](#)

## BL Messages

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[BL-1003](#)

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## BLL Messages

[BLL-1000](#)

## CBR Messages

[CBR-1002](#)

## CHS Messages

[CHS-1002](#)

## EANV Messages

[EANV-1002](#)

## EM Messages

[EM-1001](#)

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## 4 ERCP Messages

[EM-1003](#)

[EM-1004](#)

[EM-1005](#)

[EM-1006](#)

[EM-1008](#)

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[EM-1010](#)

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### FCPH Messages

[FCPH-1001](#)

### FLOD Messages

[FLOD-1004](#)

### FSS Messages

[FSS-1007](#)

## HASM Messages

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[HASM-1015](#)  
[HASM-1020](#)  
[HASM-1105](#)  
[HASM-1112](#)  
[HASM-1200](#)  
[HASM-1201](#)

## HAWK Messages

[HAWK-1002](#)

## HIL Messages

[HIL-1506](#)  
[HIL-1522](#)  
[HIL-1523](#)

## HLO Messages

[HLO-1001](#)  
[HLO-1002](#)

## IPAD Messages

[IPAD-1003](#)

## LOG Messages

[LOG-1001](#)

## LSDB Messages

[LSDB-1003](#)

## MPTH Messages

[MPTH-1001](#)  
[MPTH-1002](#)

## 4 NBFS Messages

### NBFS Messages

[NBFS-1002](#)

### PDM Messages

[PDM-1017](#)

### PLAT Messages

[PLAT-1000](#)

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### SCN Messages

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[SNMP-1004](#)

### TRCE Messages

[TRCE-1008](#)

### WLV Messages

[WLV-1002](#)

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[AUTH-3002](#)  
[AUTH-3004](#)  
[AUTH-3005](#)  
[AUTH-3006](#)  
[AUTH-3007](#)  
[AUTH-3008](#)

## DCM Messages

[DCM-1006](#)  
[DCM-1013](#)  
[DCM-2001](#)  
[DCM-2002](#)

## HASM Messages

[HASM-1004](#)

## LOG Messages

[LOG-1005](#)  
[LOG-1006](#)  
[LOG-1008](#)  
[LOG-1009](#)  
[LOG-1012](#)

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[RAS-2001](#)  
[RAS-2002](#)  
[RAS-2003](#)  
[RAS-2004](#)

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[SEC-3016](#)

[SEC-3018](#)

[SEC-3019](#)

[SEC-3020](#)

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## SULB Messages

SULB-1100

SULB-1101

SULB-1102

SULB-1103

SULB-1104

SULB-1105

SULB-1106

## TS Messages

TS-1009

TS-1010

TS-1011

TS-1012

TS-1013





# VCS Messages

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## HASM Messages

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[HASM-1020](#)  
[HASM-1021](#)  
[HASM-1022](#)  
[HASM-1024](#)  
[HASM-1120](#)  
[HASM-1121](#)

## SS Messages

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[SS-2001](#)  
[SS-2002](#)

## SULB Messages

[SULB-1105](#)  
[SULB-1106](#)  
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## VCS Messages

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# Network OS Messages

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## AUTH Messages

### AUTH-1001

Message	<Operation type> has been successfully completed.
Message Type	LOG
Severity	INFO
Probable Cause	Indicates that the secret database has been updated using the <b>fcsp auth-secret</b> or <b>no fcsp auth-secret</b> command. The values for Operation type can be "set" or "remove".
Recommended Action	No action is required.

### AUTH-1002

Message	<Operation type> has failed.
Message Type	LOG
Severity	ERROR
Probable Cause	Indicates that the specified action to update the secret database using the <b>fcsp auth-secret</b> or <b>no fcsp auth-secret</b> command has failed. The values for Operation type can be "set" or "remove".
Recommended Action	Execute the <b>fcsp auth-secret</b> or <b>no fcsp auth-secret</b> command again. Execute the <b>copy support</b> command and contact your switch service provider.

### AUTH-1003

Message	<data type> type has been successfully set to <setting value>.
Message Type	LOG
Severity	INFO
Probable Cause	Indicates that an authentication configuration parameter was set to a specified value. The data type can be either authentication type, DH group type, or policy type.

## 7 AUTH-1004

**Recommended Action** No action is required.

### AUTH-1004

**Message** Failed to set <data type> type to <setting value>.

**Message Type** LOG

**Severity** ERROR

**Probable Cause** Indicates that the **fcsp auth** command has failed to set the authentication configuration value. The data type can be either authentication type, DH group type, hash type, or policy type.

**Recommended Action** Execute the **fcsp auth** command.  
Execute the **copy support** command and contact your switch service provider.

### AUTH-1006

**Message** Failed to open authentication configuration file.

**Message Type** LOG

**Severity** WARNING

**Probable Cause** Indicates an internal problem with the security policy.

**Recommended Action** Reinitialize authentication using the **shutdown** and **no shutdown** commands or the **chassis disable** and **chassis enable** commands.  
If the message persists, execute the **copy support** command and contact your switch service provider.

### AUTH-1007

**Message** The proposed authentication protocol(s) are not supported: port <port number>.

**Message Type** LOG

**Severity** ERROR

**Probable Cause** Indicates that the proposed authentication protocol types are not supported by the local port.

**Recommended Action** Execute the **fcsp auth** command to make sure the local switch supports the following protocols: Fibre Channel Authentication Protocol (FCAP) or Diffie-Hellman Challenge Handshake Authentication Protocol (DH-CHAP).

## AUTH-1010

<b>Message</b>	Failed to initialize security policy: switch <switch number>, error <error code>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates an internal problem with the security policy.
<b>Recommended Action</b>	Reload or power cycle the switch. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## AUTH-1012

<b>Message</b>	Authentication <code> is rejected: port <port number> explain <explain code> reason <reason code>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the specified authentication is rejected because the remote entity does not support authentication.
<b>Recommended Action</b>	Make sure the entity at the other end of the link supports authentication.

## AUTH-1013

<b>Message</b>	Cannot perform authentication request message: port <port number>, message code <message code>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the system is running low on resources when receiving an authentication request. Usually this problem is transient. The authentication may fail.
<b>Recommended Action</b>	Reinitialize authentication using the <b>shutdown</b> and <b>no shutdown</b> commands or the <b>chassis disable</b> and <b>chassis enable</b> commands. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## AUTH-1014

<b>Message</b>	Invalid port value to <operation>: port <port number>.
<b>Message Type</b>	LOG   FFDC
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates an internal problem with the security policy.
<b>Recommended Action</b>	Reinitialize authentication using the <b>shutdown</b> and <b>no shutdown</b> commands or the <b>chassis disable</b> and <b>chassis enable</b> commands. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## AUTH-1017

<b>Message</b>	Invalid value to start authentication request: port <port number>, operation code <operation code>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates an internal problem with the security policy.
<b>Recommended Action</b>	Reinitialize authentication using the <b>shutdown</b> and <b>no shutdown</b> commands or the <b>chassis disable</b> and <b>chassis enable</b> commands. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## AUTH-1018

<b>Message</b>	Invalid value to check protocol type: port <port number>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates an internal problem with the security policy.
<b>Recommended Action</b>	Reinitialize authentication using the <b>shutdown</b> and <b>no shutdown</b> commands or the <b>chassis disable</b> and <b>chassis enable</b> commands. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## AUTH-1020

<b>Message</b>	Failed to create timer for authentication: port <port number>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that an authentication message timer was not created. Usually this problem is transient. The authentication may fail.
<b>Recommended Action</b>	Reinitialize authentication using the <b>shutdown</b> and <b>no shutdown</b> commands or the <b>chassis disable</b> and <b>chassis enable</b> commands. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## AUTH-1022

<b>Message</b>	Failed to extract <data type> from <message> payload: port <port number>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the authentication process failed to extract a particular value from the receiving payload. Usually this problem is transient. The authentication may fail.
<b>Recommended Action</b>	Reinitialize authentication using the <b>shutdown</b> and <b>no shutdown</b> commands or the <b>chassis disable</b> and <b>chassis enable</b> commands. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## AUTH-1025

<b>Message</b>	Failed to get <data type> during <authentication phase>: port <port number>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the authentication process failed to get expected information during the specified authentication phase. Usually this problem is transient. The authentication may fail.
<b>Recommended Action</b>	Reinitialize authentication using the <b>shutdown</b> and <b>no shutdown</b> commands or the <b>chassis disable</b> and <b>chassis enable</b> commands. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## AUTH-1026

<b>Message</b>	Failed to <Device information> during negotiation phase: port <port number>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the authentication failed to get device or host bus adapter (HBA) information due to an internal failure. Usually this problem is transient. The authentication may fail.
<b>Recommended Action</b>	Reinitialize authentication using the <b>shutdown</b> and <b>no shutdown</b> commands or the <b>chassis disable</b> and <b>chassis enable</b> commands.  If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## AUTH-1027

<b>Message</b>	Failed to select <authentication value> during <authentication phase>: value <value> port <port number>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the authentication process failed to select an authentication value (for example, DH group, hash value, or protocol type) from a receiving payload during the specified authentication phase. This error occurred because the local switch does not support the specified authentication value.
<b>Recommended Action</b>	Check the authentication configuration and reset the supported value if needed using the <b>fcsp auth</b> command.  Reinitialize authentication using the <b>shutdown</b> and <b>no shutdown</b> commands or the <b>chassis disable</b> and <b>chassis enable</b> commands.  If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## AUTH-1028

<b>Message</b>	Failed to allocate <data type> for <operation phase>: port <port number>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the authentication process failed because the system is low on memory. Usually this problem is transient. The authentication may fail.  The data type is a payload or structure that failed to get memory. The operation phase specifies which operation of a particular authentication phase failed.



**Recommended Action** Reinitialize authentication using the **shutdown** and **no shutdown** commands or the **chassis disable** and **chassis enable** commands.

If the message persists, execute the **copy support** command and contact your switch service provider.

## AUTH-1029

**Message** Failed to get <data type> for <message phase> message: port <port number>, retval <error code>.

**Message Type** LOG

**Severity** ERROR

**Probable Cause** Indicates that the authentication process failed to get a particular authentication value at certain phase. Usually this problem is transient. The authentication may fail.

The data type is a payload or structure that failed to get memory.

**Recommended Action** Reinitialize authentication using the **shutdown** and **no shutdown** commands or the **chassis disable** and **chassis enable** commands.

If the message persists, execute the **copy support** command and contact your switch service provider.

## AUTH-1030

**Message** Invalid message code for <message phase> message: port <port number>.

**Message Type** LOG

**Severity** ERROR

**Probable Cause** Indicates that the receiving payload does not have a valid message code during the specified authentication phase. Usually this problem is transient. The authentication may fail.

**Recommended Action** Reinitialize authentication using the **shutdown** and **no shutdown** commands or the **chassis disable** and **chassis enable** commands.

If the message persists, execute the **copy support** command and contact your switch service provider.

## AUTH-1031

**Message** Failed to retrieve secret value: port <port number>.

**Message Type** LOG

**Severity** ERROR

**Probable Cause** Indicates that the secret value was not set properly for the authenticated entity.

**Recommended Action** Reset the secret value using the **fcsp auth-secret** command.

Reinitialize authentication using the **shutdown** and **no shutdown** commands or the **chassis disable** and **chassis enable** commands.

## AUTH-1032

<b>Message</b>	Failed to generate <data type> for <message payload> payload: length <data length>, error code <error code>, port <port number>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the authentication process failed to generate specific data (for example, challenge, nonce, or response data) for an authentication payload. This usually relates to an internal failure. A nonce is a single-use, usually random value used in authentication protocols to prevent replay attacks. Usually this problem is transient. The authentication may fail.
<b>Recommended Action</b>	Reinitialize authentication using the <b>shutdown</b> and <b>no shutdown</b> commands or the <b>chassis disable</b> and <b>chassis enable</b> commands.  If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## AUTH-1033

<b>Message</b>	Disable port <port number> due to unauthorized switch <switch WWN value>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that an entity, which was not configured in the switch connection control (SCC) policy tried to connect to the port.
<b>Recommended Action</b>	Add the entity World Wide Name (WWN) to the SCC policy using the <b>secpolicy defined-policy</b> command, then reinitialize authentication using the <b>shutdown</b> and <b>no shutdown</b> commands or the <b>chassis disable</b> and <b>chassis enable</b> commands.

## AUTH-1034

<b>Message</b>	Failed to validate name <entity name> in <authentication message>: port <port number>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the entity name in the payload is not in the correct format.
<b>Recommended Action</b>	Reinitialize authentication using the <b>shutdown</b> and <b>no shutdown</b> commands or the <b>chassis disable</b> and <b>chassis enable</b> commands.  If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## AUTH-1035

<b>Message</b>	Invalid <data type> length in <message phase> message: length <data length>, port <port number>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that a particular data field in the authentication message has an invalid length field. This error usually relates to an internal failure.  Usually this problem is transient. The authentication may fail.
<b>Recommended Action</b>	Reinitialize authentication using the <b>shutdown</b> and <b>no shutdown</b> commands or the <b>chassis disable</b> and <b>chassis disable</b> commands.  If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## AUTH-1036

<b>Message</b>	Invalid state <state value> for <authentication phase>: port <port number>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the switch received an unexpected authentication message. Usually this problem is transient. The authentication may fail.
<b>Recommended Action</b>	Reinitialize authentication using the <b>shutdown</b> and <b>no shutdown</b> commands or the <b>chassis disable</b> and <b>chassis disable</b> commands.  If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## AUTH-1037

<b>Message</b>	Failed to <operation type> response for <authentication message>: init_len <data length>, resp_len <data length>, port <port number>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that a Diffie-Hellman Challenge Handshake Authentication Protocol (DH-CHAP) authentication operation failed on the specified port due to mismatched response values between two entities. The error may indicate that an invalid entity tried to connect to the switch.
<b>Recommended Action</b>	Check the connection port for a possible security attack.  Reinitialize authentication using the <b>shutdown</b> and <b>no shutdown</b> commands or the <b>chassis disable</b> and <b>chassis disable</b> commands.  If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## AUTH-1039

<b>Message</b>	Neighboring switch has conflicting authentication policy: Port <Port Number> disabled.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the neighboring switch has a conflicting authentication policy enabled. The E_Port has been disabled because the neighboring switch has rejected the authentication negotiation and the local switch has a strict switch authentication policy.
<b>Recommended Action</b>	Correct the switch policy configuration on either of the switches using the <b>fcsp auth</b> command, and then enable the port using the <b>no shutdown</b> command.

## AUTH-1040

<b>Message</b>	Reject authentication on port <Port Number>, because switch authentication policy is set to OFF.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the local switch has rejected the authentication because the switch policy is turned off. If the neighboring switch has a strict (ON) switch policy, the port will be disabled due to conflicting configuration settings. Otherwise, the E_Port will form without authentication.
<b>Recommended Action</b>	If the port is disabled, correct the switch policy configuration on either of the switches using the <b>fcsp auth</b> command, and then enable the port on neighboring switch using the <b>no shutdown</b> command. If the E_Port has formed, no action is required.

## AUTH-1041

<b>Message</b>	Port <port number> has been disabled, because an authentication-reject was received with code '<Reason String>' and explanation '<Explanation String>'.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified port has been disabled because it received an authentication-reject response from the connected switch or device. The error may indicate that an invalid entity tried to connect to the switch.
<b>Recommended Action</b>	<p>Check the connection port for a possible security attack.</p> <p>Check the shared secrets using the <b>show fcsp auth-secret dh-chap</b> command and reinitialize authentication using the <b>shutdown</b> and <b>no shutdown</b> commands or the <b>chassis disable</b> and <b>chassis disable</b> commands.</p> <p>If the message persists, execute the <b>copy support</b> command and contact your switch service provider.</p>

## AUTH-1042

<b>Message</b>	Port <port number> has been disabled, because authentication failed with code '<Reason String>' and explanation '<Explanation String>'.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified port has been disabled because the connecting switch or device failed to authenticate. The error may indicate that an invalid entity attempted to connect to the switch.
<b>Recommended Action</b>	<p>Check the connection port for a possible security attack.</p> <p>Check the shared secrets using the <b>show fcsp auth-secret dh-chap</b> command and reinitialize authentication using the <b>shutdown</b> and <b>no shutdown</b> commands or the <b>chassis disable</b> and <b>chassis disable</b> commands.</p> <p>If the message persists, execute the <b>copy support</b> command and contact your switch service provider.</p>

## AUTH-1044

<b>Message</b>	Authentication <Reason for disabling the port>. Disabling the port <port number>.
<b>Message Type</b>	LOG   FFDC
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the authentication has timed out after multiple retries and as a result, the specified port has been disabled. This problem may be transient due to the system CPU load. In addition, a defective small form-factor pluggable (SFP) or faulty cable may have caused the failure.
<b>Recommended Action</b>	Check the SFP and the cable. Then try to enable the port using the <b>no shutdown</b> command.

## AUTH-3001

<b>Message</b>	Event: <Event Name>, Status: success, Info: <Data type> type has been changed from [<Old value>] to [<New value>].
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a authentication configuration parameter was set to a specified value. The data type can be either authentication type, DH group type, hash type, or policy type.
<b>Recommended Action</b>	No action is required.

## AUTH-3002

<b>Message</b>	Event: <Event Name>, Status: success, Info: <Event Related Info>.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the secret database has been updated using the <b>fcsp auth-secret</b> command.
<b>Recommended Action</b>	No action is required.

## AUTH-3004

<b>Message</b>	Event: <Event Name>, Status: failed, Info: Neighboring switch has a conflicting authentication policy; Port <Port Number> disabled.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified E_Port was disabled because the neighboring switch rejected the authentication negotiation and the local switch has a strict switch authentication policy.
<b>Recommended Action</b>	Correct the switch policy configuration on either of the switches using the <b>fcsp auth</b> command, and then enable the port using <b>no shutdown</b> command.

## AUTH-3005

<b>Message</b>	Event: <Event Name>, Status: failed, Info: Rejecting authentication request on port <Port Number> because switch policy is turned OFF.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the local switch has rejected the authentication request because the switch policy is turned off. If the neighboring switch has a strict (ON) switch policy, the port will be disabled due to conflicting configuration settings. Otherwise, the E_Port will form without authentication.
<b>Recommended Action</b>	If the specified port is disabled, correct the switch policy configuration on either of the switches using the <b>fcsp auth</b> command, and then enable the port on the neighboring switch using <b>no shutdown</b> command. If the E_Port formed, no action is required.

## AUTH-3006

<b>Message</b>	Event: <Event Name>, Status: failed, Info: Authentication failed on port <port number> due to mismatch of DH-CHAP shared secrets.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a Diffie-Hellman Challenge Handshake Authentication Protocol (DH-CHAP) authentication operation failed on the specified port due to mismatched response values between two entities. The error may indicate that an invalid entity tried to connect to the switch.
<b>Recommended Action</b>	<p>Check the connection port for a possible security attack.</p> <p>Check the shared secrets using the <b>show fcsp auth-secret dh-chap</b> command and reinitialize authentication using the <b>shutdown</b> and <b>no shutdown</b> commands or the <b>chassis disable</b> and <b>chassis enable</b> commands.</p> <p>If the message persists, execute the <b>copy support</b> command and contact your switch service provider.</p>

## AUTH-3007

<b>Message</b>	Event: <Event Name>, Status: failed, Info: Port <port number> disabled, because an authentication-reject was received with code '<Reason String>' and Explanation '<Explanation String>'.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified port was disabled because it received an authentication-reject response from the connected switch or device. The error may indicate that an invalid entity tried to connect to the switch.
<b>Recommended Action</b>	<p>Check the connection port for a possible security attack.</p> <p>Check the shared secrets using <b>show fcsp auth-secret dh-chap</b> and reinitialize authentication using the <b>shutdown</b> and <b>no shutdown</b> commands or the <b>chassis disable</b> and <b>chassis enable</b> commands.</p> <p>If the message persists, execute the <b>copy support</b> command and contact your switch service provider.</p>

## AUTH-3008

<b>Message</b>	Event: <Event Name>, Status: failed, Info: Port <port number> has been disabled due to authentication failure with code '<Reason String>' and explanation '<Explanation String>'.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified port has been disabled because the connecting switch or device failed to authenticate. The error may indicate that an invalid entity tried to connect to the switch.
<b>Recommended Action</b>	<p>Check the connection port for a possible security attack.</p> <p>Check the shared secrets using <b>show fcsp auth-secret dh-chap</b> and reinitialize authentication using the <b>shutdown</b> and <b>no shutdown</b> commands or the <b>chassis disable</b> and <b>chassis enable</b> commands.</p> <p>If the message persists, execute the <b>copy support</b> command and contact your switch service provider.</p>



## BGP Messages

### BGP-1001

<b>Message</b>	<code>&lt;error message&gt;.</code>
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates a configuration error.
<b>Recommended Action</b>	Make sure to input or pass the right parameter through the CLI or other daemon.

### BGP-1002

<b>Message</b>	<code>&lt;message&gt;.</code>
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates a Border Gateway Protocol (BGP) interface state change or external link-state database (LSDB) overflow notification.
<b>Recommended Action</b>	No action is required.

### BGP-1003

<b>Message</b>	<code>&lt;error message&gt;.</code>
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the length, format, or content of the received packet is incorrect.
<b>Recommended Action</b>	Check the configuration at the local or remote node.

## BGP-1004

<b>Message</b>	<message> .
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates a Border Gateway Protocol (BGP) interface state change or external link-state database (LSDB) overflow warning.
<b>Recommended Action</b>	No action is required.

## BL Messages

### BL-1000

<b>Message</b>	Initializing ports...
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the switch has started initializing the ports.
<b>Recommended Action</b>	No action is required.

### BL-1001

<b>Message</b>	Port initialization completed.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the switch has completed initializing the ports.
<b>Recommended Action</b>	No action is required.

### BL-1002

<b>Message</b>	Init Failed: <slot string> DISABLED because internal ports were not ONLINE, <list of internal port number not ONLINE>.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the interface module initiation failed because one or more of the internal ports were not online. The interface module is faulted.
<b>Recommended Action</b>	<p>Make sure that the interface module is seated correctly. If the interface module is seated correctly, reload or power cycle the interface module using the <b>power-off</b> and <b>power-on</b> commands.</p> <p>Execute the <b>diag systemverification</b> command to verify that the interface module does not have hardware problems.</p> <p>Execute the <b>diag post</b> command to make sure that Power-On Self-Test (POST) is enabled.</p> <p>Additional interface module fault messages precede and follow this error, providing more information. Refer to other error messages for the recommended action.</p> <p>If the message persists, replace the interface module.</p>

## BL-1003

<b>Message</b>	Faulty interface module in <slot string>.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates a faulty interface module in the specified slot.
<b>Recommended Action</b>	<p>Make sure that the interface module is seated correctly. If the interface module is seated correctly, reload or power cycle the interface module using the <b>power-off</b> and <b>power-on</b> commands.</p> <p>Execute the <b>diag systemverification</b> command to verify that the interface module does not have hardware problems.</p> <p>Execute the <b>diag post</b> command to make sure that Power-On Self-Test (POST) is enabled.</p> <p>If the message persists, replace the interface module.</p>

## BL-1004

<b>Message</b>	Suppressing interface module fault in <slot string>.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the specified interface module experienced a failure but was not faulted due to a user setting.
<b>Recommended Action</b>	<p>Reload or power cycle the interface module using the <b>power-off</b> and <b>power-on</b> commands.</p> <p>Execute the <b>diag systemverification</b> command to verify that the interface module does not have hardware problems.</p> <p>Execute the <b>diag post</b> command to make sure that Power-On Self-Test (POST) is enabled.</p> <p>If the message persists, replace the interface module.</p>

## BL-1006

<b>Message</b>	Interface module <slot number> NOT faulted. Peer interface module <slot number> experienced abrupt failure.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the errors (mostly synchronization errors) on this interface module are harmless. Probably, the standby management module connected to the active management module has experienced transitory problems.

<b>Recommended Action</b>	Execute the <b>show ha</b> command to verify that the standby management module is healthy. If the problem persists, remove and reinstall the faulty interface module.  If the standby management module was removed or faulted by user intervention, no action is required.
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## BL-1007

<b>Message</b>	interface module #<interface module number>: state is inconsistent with EM. bl_cflags 0x<interface module control flags>, slot_on <slot_on flag>, slot_off <slot_off flag>, faulty <faulty flag>, status <interface module status>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that a failover occurred while an interface module was initializing on the previously active management module.
<b>Recommended Action</b>	No action is required. The interface module is re-initialized. Because re-initializing an interface module is a disruptive operation and can stop I/O traffic, you must stop and restart the traffic during this process.

## BL-1008

<b>Message</b>	<slot string> control-plane failure. Expected value: 0x<value 1>, Actual: 0x<value 2>.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the interface module has experienced a hardware failure or was removed without following the recommended removal procedure.
<b>Recommended Action</b>	Make sure that the interface module is seated correctly. If the interface module is seated correctly, reload or power cycle the interface module using the <b>power-off</b> and <b>power-on</b> commands.  Execute the <b>diag systemverification</b> command to verify that the interface module does not have hardware problems.  Execute the <b>diag post</b> command to make sure that Power-On Self-Test (POST) is enabled.  If the message persists, replace the interface module.

## BL-1009

<b>Message</b>	Interface module in slot <slot number> timed out initializing the chips.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the interface module has failed to initialize the application-specific integrated circuit (ASIC) chips.

<b>Recommended Action</b>	<p>Make sure that the interface module is seated correctly. If the interface module is seated correctly, reload or power cycle the interface module using the <b>power-off</b> and <b>power-on</b> commands.</p> <p>Execute the <b>diag systemverification</b> command to verify that the interface module does not have hardware problems.</p> <p>Execute the <b>diag post</b> command to make sure that Power-On Self-Test (POST) is enabled.</p> <p>If the message persists, replace the interface module.</p>
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## BL-1010

<b>Message</b>	Interface module in <slot string> is inconsistent with the hardware settings.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that a failover occurred while some hardware changes (such as changing the domain ID) were being made on the previously active management module.
<b>Recommended Action</b>	No action is required. This interface module has been re-initialized. Because re-initializing an interface module is a disruptive operation and can stop I/O traffic, you must stop and restart the traffic during this process.

## BL-1011

<b>Message</b>	Busy with emb-port int for chip <chip number> in minis <mini-switch number> on interface module <slot number>, chip int is disabled. Interrupt status=0x<interrupt status>.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that too many interrupts in the embedded port caused the specified chip to be disabled. The probable cause is too many abnormal frames; the chip is disabled to prevent the management module from becoming too busy.
<b>Recommended Action</b>	<p>Make sure to capture the console output during this process.</p> <p>Check for a faulty cable, small form-factor pluggable (SFP) transceiver, or device attached to the specified port.</p> <p>Execute the <b>diag systemverification</b> command to verify that the interface module or switch does not have hardware problems.</p> <p>Execute the <b>diag post</b> command to make sure that Power-On Self-Test (POST) is enabled.</p> <p>For a modular switch, execute the <b>power-off</b> and <b>power-on</b> commands to power cycle the interface module.</p> <p>For a compact switch, reload or power cycle the switch.</p> <p>If the message persists, replace the interface module or the switch.</p>

## BL-1012

<b>Message</b>	bport <interface module port number> port int is disabled. Status=0x<interrupt status>; Port <port number> will be re-enabled in a minute.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the port generated an excessive number of interrupts that may prove unrecoverable to the switch operation. The port is disabled to prevent the management module from becoming too busy. The interface module port number displayed in the message may not correspond to a user port number.
<b>Recommended Action</b>	<p>Make sure to capture the console output during this process.</p> <p>Check for a faulty cable, small form-factor pluggable (SFP) transceiver, or device attached to the specified port.</p> <p>For a modular switch, execute the <b>power-off</b> and <b>power-on</b> commands to power cycle the interface module.</p> <p>For a compact switch, reload or power cycle the switch.</p> <p>If the message persists, replace the interface module or the switch.</p>

## BL-1013

<b>Message</b>	bport <interface module port number> port is faulted. Status=0x<interrupt status>; Port <port number> will be re-enabled in a minute.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the port generated an excessive number of interrupts that may prove fatal to the switch operation. The port is disabled to prevent the management module from becoming too busy. The interface module port number displayed in the message may not correspond to the user port number.
<b>Recommended Action</b>	<p>Make sure to capture the console output during this process.</p> <p>Check for a faulty cable, small form-factor pluggable (SFP) transceiver, or device attached to the specified port.</p> <p>For a modular switch, execute the <b>power-off</b> and <b>power-on</b> commands to power cycle the interface module.</p> <p>For a compact switch, reload or power cycle the switch.</p> <p>If the message persists, replace the interface module or the switch.</p>

## BL-1014

<b>Message</b>	bport <interface module port number> port int is disabled. Status=0x<interrupt status>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the port generated an excessive number of interrupts that may prove fatal to the switch operation. The port is disabled to prevent the management module from becoming too busy. The interface module port number displayed in the message may not correspond to the user port number.
<b>Recommended Action</b>	<p>Make sure to capture the console output during this process.</p> <p>For a modular switch, execute the <b>power-off</b> and <b>power-on</b> commands to power cycle the interface module.</p> <p>For a compact switch, execute the <b>reload</b> command to reload the switch.</p> <p>Execute the <b>diag systemverification</b> command to determine if there is a hardware error.</p> <p>Execute the <b>diag post</b> command to make sure that Power-On Self-Test (POST) is enabled.</p> <p>If there is a hardware error, the <b>power-off</b> or <b>power-on</b> command fails on the modular switch, or the errors are encountered again, replace the interface module or the switch.</p>

## BL-1015

<b>Message</b>	bport <interface module port number> port is faulted. status=0x<interrupt status>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the port generated an excessive number of interrupts that may prove fatal to the switch operation. The port is disabled to prevent the management module from becoming too busy. The interface module port number displayed in the message may not correspond to the user port number.
<b>Recommended Action</b>	<p>Make sure to capture the console output during this process.</p> <p>For a modular switch, execute the <b>power-off</b> and <b>power-on</b> commands to power cycle the interface module.</p> <p>For a compact switch, execute the <b>reload</b> command to reload the switch.</p> <p>Execute the <b>diag systemverification</b> command to determine if there is a hardware error.</p> <p>Execute the <b>diag post</b> command to ensure that Power-On Self-Test (POST) is enabled.</p> <p>If there is a hardware error, the <b>power-off</b> or <b>power-on</b> command fails on the modular switch, or the errors are encountered again, replace the interface module or the switch.</p>



## BL-1016

<b>Message</b>	Interface module port <port number> in <slot string> failed to enable.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the specified interface module port could not be enabled.
<b>Recommended Action</b>	<p>Make sure that the interface module is seated correctly. If the interface module is seated correctly, reload or power cycle the interface module using the <b>power-off</b> and <b>power-on</b> commands.</p> <p>Execute the <b>diag systemverification</b> command to verify that the interface module does not have hardware problems.</p> <p>Execute the <b>diag post</b> command to make sure that Power-On Self-Test (POST) is enabled.</p> <p>If the message persists, replace the interface module.</p>

## BL-1017

<b>Message</b>	<slot string> Initializing.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified slot has started initializing the ports.
<b>Recommended Action</b>	No action is required.

## BL-1018

<b>Message</b>	<slot string> Initialization completed.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified slot has completed initializing the ports.
<b>Recommended Action</b>	No action is required.

**BL-1019**

<b>Message</b>	<code>&lt;Slot string&gt;, retry &lt;Retry Number&gt;, internal port retry initialization, &lt;List of internal ports retrying initialization&gt;.</code>
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified slot had internal ports that are not online. Initiated a retry on ports that failed to go online.
<b>Recommended Action</b>	No action is required.

**BL-1020**

<b>Message</b>	<code>Switch timed out initializing the chips.</code>
<b>Message Type</b>	LOG   FFDC
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the switch has failed to initialize the application-specific integrated circuit (ASIC) chips.
<b>Recommended Action</b>	<p>Reload power cycle the switch.</p> <p>Execute the <b>diag systemverification</b> command to verify that the switch does not have hardware problems.</p> <p>Execute the <b>diag post</b> command to make sure that Power-On Self-Test (POST) is enabled.</p> <p>If the message persists, replace the switch.</p>

**BL-1021**

<b>Message</b>	<code>Retry &lt;Retry Number&gt;, internal port retry initialization, &lt;List of internal ports retrying initialization&gt;.</code>
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the switch had internal ports that are not online. Initiated a retry on ports that failed to go online.
<b>Recommended Action</b>	No action is required.

## BL-1022

<b>Message</b>	Init Failed: Switch DISABLED because internal ports were not ONLINE, <list of internal port number not ONLINE>.
<b>Message Type</b>	LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the switch initiation failed because one or more of the internal ports were not online. The switch is faulted.
<b>Recommended Action</b>	<p>Reload or power cycle the switch.</p> <p>Execute the <b>diag systemverification</b> command to verify that the switch does not have hardware problems.</p> <p>Execute the <b>diag post</b> command to make sure that Power-On Self-Test (POST) is enabled.</p> <p>Additional fault messages precede and follow this error providing more information. Refer to other error messages for recommended action.</p> <p>If the message persists, replace the switch.</p>

## BL-1023

<b>Message</b>	Interface module in <slot string> was reset before initialization completed. As a result the interface module is faulted.
<b>Message Type</b>	LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the interface module was reset before the initialization completed.
<b>Recommended Action</b>	Reload or power cycle the interface module using the <b>power-off</b> and <b>power-on</b> commands. If the message persists, replace the interface module.

## BL-1024

<b>Message</b>	All ports on the interface module in <slot string> will be reset as part of the firmware upgrade.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a recent firmware upgrade caused the interface module firmware to be upgraded and resulted in a cold upgrade. As part of the upgrade, all data path elements were reset.
<b>Recommended Action</b>	No action is required.

## BL-1026

<b>Message</b>	Internal port offline during warm recovery, state <port state> (0x<port ID>).
<b>Message Type</b>	LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that an internal port went offline during warm recovery of the switch. The switch will reboot and start a cold recovery.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and reload the switch. Execute the <b>diag post</b> command to make sure Power-On Self-Test (POST) is enabled. If the problem persists, replace the switch.

## BL-1027

<b>Message</b>	Interface module in <slot string> faulted, boot failed; status 0x<boot status> 0x<1250 0 boot status> 0x<1250 1 boot status>.
<b>Message Type</b>	LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the interface module failed to boot properly.
<b>Recommended Action</b>	Reload or power cycle the interface module using the <b>power-off</b> and <b>power-on</b> commands. If the message persists, replace the interface module.

## BL-1028

<b>Message</b>	Switch faulted; internal processor was reset before switch init completed.
<b>Message Type</b>	LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the switch internal processor was reset before the initialization completed.
<b>Recommended Action</b>	Reload or power cycle the switch. If the message persists, replace the switch.

## BL-1029

<b>Message</b>	All ports on the switch will be reset as part of the firmware upgrade.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a recent firmware upgrade caused the switch internal processor firmware to be upgraded and resulted in a cold upgrade. As part of the upgrade, all data path elements were reset.
<b>Recommended Action</b>	No action is required.

## BL-1031

<b>Message</b>	Link timeout in internal port (slot <slot number>, port <port number>) caused interface module fault. Use power-off/power-on commands to recover it.
<b>Message Type</b>	LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that link timeout occurred in one of the back-end internal ports.
<b>Recommended Action</b>	Power cycle the interface module using the <b>power-off</b> and <b>power-on</b> commands.

## BL-1032

<b>Message</b>	(<slot string>,bitmap 0x<object control flags(bitmap)>) ports never came up ONLINE (reason <reason for port disable>, state <status of the interface module>). Disabling slot.
<b>Message Type</b>	LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the back-end (non-user) ports have not come online within the time limit.
<b>Recommended Action</b>	Reload or power cycle the interface module using the <b>power-off</b> and <b>power-on</b> commands. Execute the <b>diag systemverification</b> command to verify that the interface module does not have hardware problems. Execute the <b>diag post</b> command to make sure that Power-On Self-Test (POST) is enabled. If the message persists, replace the interface module.

## BL-1033

<b>Message</b>	(<slot string>,bitmap 0x<object control flags(bitmap)>) No disable acknowledgment from ports (state <status of the interface module>). Disabling slot.
<b>Message Type</b>	LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the system has timed out waiting for the disable acknowledgment messages from the user ports.
<b>Recommended Action</b>	<p>Reload or power cycle the interface module using the <b>power-off</b> and <b>power-on</b> commands.</p> <p>Execute the <b>diag systemverification</b> command to verify that the interface module does not have hardware problems.</p> <p>Execute the <b>diag post</b> command to make sure that Power-On Self-Test (POST) is enabled.</p> <p>If the message persists, replace the interface module.</p>

## BL-1034

<b>Message</b>	<slot string> CEE initialization completed.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified slot has completed initializing the Converged Enhanced Ethernet (CEE) ports.
<b>Recommended Action</b>	No action is required.

## BL-1037

<b>Message</b>	Faulting chip in <slot string>, miniS = <mini-switch number>,port = <port number> due to BE/BI port fault.
<b>Message Type</b>	LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that all ports on the chip have been disabled due to a fault on the chip.
<b>Recommended Action</b>	<p>Execute the <b>diag systemverification</b> command to determine if there is a hardware error.</p> <p>Execute the <b>diag post</b> command to make sure that Power-On Self-Test (POST) is enabled.</p>

## BL-1038

<b>Message</b>	Inconsistent FPGA image version detected, reload the switch for recovery.
<b>Message Type</b>	LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the field-programmable gate array (FPGA) image version is incompatible with the software version.
<b>Recommended Action</b>	Reload the switch. If the message persists, replace the switch.

## BL-1039

<b>Message</b>	Inconsistent FPGA image version detected, faulting the interface module in <slot string>.
<b>Message Type</b>	LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the field-programmable gate array (FPGA) image version is incompatible with the software version.
<b>Recommended Action</b>	Power cycle the interface module using the <b>power-off</b> and <b>power-on</b> commands. If the message persists, replace the interface module.

## BL-1045

<b>Message</b>	mini SFP+ (SN: <mini SFP+ serial number>) is only supported in certain high port count interface modules, not interface module in slot <slot number of interface module that has the mini SFP+> with ID <Interface module ID of interface module that has the mini SFP+ that does not support it>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the mini (form factor) enhanced small form-factor pluggable (SFP+) transceiver is supported only by a certain type of interface module, but it can be inserted in other interface modules.
<b>Recommended Action</b>	Replace the mini SFP+ transceiver with an SFP or SFP+ transceiver.

**BL-1046**

<b>Message</b>	<Slot number of interface module that has the SFP> error on SFP in Slot <Port number into which the SFP is inserted>/Port <The type of error 'checksum' or 'data access' for general problems accessing the i2c accessible data> (<A detailed error code>). Reseat or replace the SFP.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that checksum in an area on the small form-factor pluggable (SFP) transceiver does not match with the computed value or there is problem accessing the data.
<b>Recommended Action</b>	Reseat the SFP transceiver. If the problem persists, replace the SFP transceiver.

**BL-1047**

<b>Message</b>	Buffer optimized mode is turned <buffer optimized mode> for slot <slot number>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the buffer optimized mode is changed for the specified slot.
<b>Recommended Action</b>	No action is required.



# BLL Messages

## BLL-1000

<b>Message</b>	ASIC driver detected <slot string> port <port number> as faulty (reason: <reason code>).
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	<p>Indicates that an interface module regulation problem was reported on the specified slot. The interface module is faulted.</p> <p>The reason codes are as follows:</p> <ul style="list-style-type: none"> <li>• 1 = Available buffer overflow</li> <li>• 2 = Backend port buffer timeout</li> <li>• 3 = Backend port got shut down</li> <li>• 4 = Embedded port buffer timeout</li> <li>• 5 = Excessive busy mini buffer</li> <li>• 6 = Excessive RCC VC on E_Port</li> <li>• 7 = Excessive RCC VC on FL_Port</li> <li>• 8 = Fail detection buffer tag error</li> <li>• 9 = Fail detection TX parity error</li> <li>• 10 = EPI CMEM interrupt error</li> <li>• 11 = Checkpoint Middleware Interface (CMI) interrupt error</li> <li>• 12 = Interrupt overrun</li> <li>• 13 = FDET interrupt</li> <li>• 14 = Interrupt suspended</li> <li>• 15 = Filter LISTD error</li> <li>• 16 = Unknown filter LIST error</li> <li>• 17 = Wait for LPC open state</li> <li>• 18 = Wait for Old port state</li> <li>• 19 = Wait for Open init state</li> <li>• 20 = TX parity error</li> <li>• 21 = RAM parity error</li> <li>• 22 = Built in Self Repair (BISR) or RAMINIT error</li> </ul>
<b>Recommended Action</b>	<p>Make sure the interface module is seated correctly. If the interface module is seated correctly, reload or power cycle the interface module using the <b>power-off</b> and <b>power-on</b> commands.</p> <p>Execute the <b>diag systemverification</b> command to verify that the interface module does not have hardware problems.</p> <p>If the message persists, replace the interface module.</p>

## C2 Messages

### C2-1004

<b>Message</b>	S<slot number>,C<chip index>: Invalid DMA ch pointer, chan:<channel number>, good_addr:0x<good address> bad_addr:0x<bad address>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates an internal error in the application-specific integrated circuit (ASIC) hardware that may degrade the data traffic.
<b>Recommended Action</b>	Restart the system at the next maintenance window. If the problem persists, replace the interface module.

### C2-1006

<b>Message</b>	S<slot number>,C<chip index>: Internal link errors have been reported, no hardware faults identified, continuing to monitor for errors: fault1:<fault1_count>, fault2:<fault2_count>, thresh1:0x<threshold_used>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that some internal link errors have been detected. These errors can be normal in an active running system.  The system automatically starts a more detailed monitoring of the errors reported in the internal hardware. There is no action required by the user at this time. If any actual hardware failures are detected, the C2-1010 message will be generated identifying the failing field-replaceable unit (FRU).
<b>Recommended Action</b>	No action is required.

### C2-1007

<b>Message</b>	S<slot number>,P<port number> (<interface module port number>): At next port state change, best effort QoS will be turned off automatically as it is no longer supported under this configuration.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that quality of service (QoS) will be turned off automatically at next port state change because best effort is no longer supported on 4 Gbps or 8 Gbps platform long distance ports.

**Recommended Action** No action is required.

## C2-1008

**Message** S<slot number>,P<port number> (<interface module port number>): QoS overwrites vc-link-init idle. ARB will be used on the link.

**Message Type** LOG

**Severity** WARNING

**Probable Cause** Indicates that quality of service (QoS) overwrites the fill word IDLE used in the long distance links. Arbitrated loop (ARB) will be used on the link.

**Recommended Action** No action is required.

## C2-1009

**Message** S<slot number>,P<port number> (<interface module port number>): vc-link-init arb overwrites fill word IDLE. ARB will be used on the link.

**Message Type** LOG

**Severity** WARNING

**Probable Cause** Indicates that the **vc-link-init arb** command has overwritten the fill word IDLE. Arbitrated loop (ARB) will be used on the link.

**Recommended Action** No action is required.

## C2-1010

**Message** S<slot number>,C<chip index>: Internal monitoring of faults has identified suspect hardware, interface module may need to be reset or replaced:  
fault1:<fault1\_count>, fault2:<fault2\_count>, thresh2:0x<threshold\_used>.

**Message Type** LOG

**Severity** CRITICAL

**Probable Cause** Indicates that above normal errors were observed in hardware that may or may not impact the data traffic.

**Recommended Action** Whenever the error is observed persistently, power cycle the specified interface module using the **power-off** and **power-on** commands. If the problem persists, replace the interface module.

## C2-1011

<b>Message</b>	S<slot number>,P<port number> (<interface port number>): Primitive received with Encoding errors, do AL_RESET.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates encoding errors on the internal links. This error can cause cyclic redundancy check (CRC) errors or frame loss.
<b>Recommended Action</b>	Whenever the error is observed persistently, power cycle the specified interface module using the <b>power-off</b> and <b>power-on</b> commands. If the problem persists, check the backplane or replace the interface module.

## C2-1012

<b>Message</b>	S<slot number>,P<port number> (<interface module port number>): Link Timeout on internal port ftx=<frame transmitted> tov=<real timeout value> (><expected timeout value>), interface module may need to be reset or replaced.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that above normal errors were observed in hardware that may or may not impact the data traffic.
<b>Recommended Action</b>	Whenever the error is observed persistently, power cycle the specified interface module using the <b>power-off</b> and <b>power-on</b> commands. If the problem persists, replace the interface module.

## C3 Messages

### C3-1004

<b>Message</b>	<slot string>,C<chip index>: Invalid DMA ch pointer, chan:<channel number>, good_addr:0x<good address> bad_addr:0x<bad address>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates an internal error in the application-specific integrated circuit (ASIC) hardware that may degrade the data traffic.
<b>Recommended Action</b>	Reload the system at the next maintenance window. If the problem persists, replace the interface module.

### C3-1006

<b>Message</b>	<slot string>,C<chip index>: Various non-critical hardware errors were observed: fault1:0x<fault1_count>, fault2:0x<fault2_count>, thresh1:0x<threshold used>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that some errors were found in hardware that may or may not impact the data traffic.
<b>Recommended Action</b>	No action is required.

### C3-1010

<b>Message</b>	<slot string>,C<chip index>: Above normal hardware errors were observed: fault1:<fault1_count>, fault2:<fault2_count>, thresh2:0x<threshold used>.
<b>Message Type</b>	LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that above normal errors were observed in hardware that may or may not impact the data traffic.
<b>Recommended Action</b>	Whenever this error is observed persistently, power cycle the specified interface module using the <b>power-off</b> and <b>power-on</b> commands. If the problem persists, replace the interface module.

## C3-1011

<b>Message</b>	Detected a complete loss of credit on internal back-end VC: Slot <slot string>, Port <port number>(<interface module port number>) vc_no=<vc number> crd(s)lost=<credit(s)lost>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that all credits have been lost on the specified virtual channel (VC) and port.
<b>Recommended Action</b>	No action is required. The link will be reset to recover the credits.

## C3-1012

<b>Message</b>	<slot string>,P<port number>(<interface module port number>): Link Timeout on internal port ftx=<frame transmitted> tov=<real timeout value> (><expected timeout value>) vc_no=<vc number> crd(s)lost=<credit(s) lost> complete_loss:<complete credit loss>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that above normal errors were observed in hardware that may or may not impact the data traffic.
<b>Recommended Action</b>	Whenever this error is observed persistently, power cycle the specified interface module using the <b>power-off</b> and <b>power-on</b> commands. If the problem persists, replace the interface module.

## C3-1014

<b>Message</b>	Link Reset on internal Port <slot string>,P<port number>(<interface module port number>) vc_no=<vc number> crd(s)lost=<credit(s) lost>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that one or more credits were lost and the link is reset.
<b>Recommended Action</b>	Whenever this error is observed persistently, power cycle the specified interface module using the <b>power-off</b> and <b>power-on</b> commands. If the problem persists, replace the interface module.

## C3-1017

<b>Message</b>	Interface module in Slot-<slot string> failed due to unavailability of ports in the internal trunk.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified interface module failed due to unavailability of ports in the internal trunk.
<b>Recommended Action</b>	Whenever this error is observed persistently, power cycle the specified interface module using the <b>power-off</b> and <b>power-on</b> commands. If the problem persists, replace the interface module.

## C3-1019

<b>Message</b>	<slot string>,C<chip index>: HW ASIC Chip TXQ FID parity error threshold reached type = 0x<chip error type>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates an internal error in the application-specific integrated circuit (ASIC) hardware that may degrade the data traffic.
<b>Recommended Action</b>	Reload the system at the next maintenance window.

## C3-1020

<b>Message</b>	<slot string>,P<port number>(<interface module port number>): Some non-critical CRC with good EOF errors were observed: current:0x<last_crc_good_eof_cnt>, last:0x<total_crc_good_eof_cnt>, thresh1:0x<threshold_used>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that some non-critical errors were detected in the hardware.
<b>Recommended Action</b>	No action is required.

## CBR Messages

### CBR-1001

<b>Message</b>	Port <port number> port fault. Change the SFP or check the cable.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates a deteriorated small form-factor pluggable (SFP) transceiver, an incompatible SFP transceiver pair, or a faulty cable between the peer ports.
<b>Recommended Action</b>	Verify that compatible SFP transceivers are used on the peer ports, the SFP transceivers have not deteriorated, and the Fibre Channel cable is not faulty. Replace the SFP transceivers or the cable if necessary.

### CBR-1002

<b>Message</b>	Port <port number> chip faulted due to internal error.
<b>Message Type</b>	LOG   FFDC
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates an internal error. All the ports on the interface module or switch will be disrupted.
<b>Recommended Action</b>	For a modular switch, execute the <b>power-off</b> and <b>power-on</b> commands to power cycle the interface module. For a compact switch, reload or power cycle the switch.



## CHS Messages

### CHS-1002

<b>Message</b>	ki_gd_register_action failed with rc = <return value>.
<b>Message Type</b>	LOG   FFDC
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates an internal error.
<b>Recommended Action</b>	Reload or power cycle the switch.

### CHS-1003

<b>Message</b>	Slot ENABLED but Not Ready during recovery, disabling slot = <slot number>, rval = <return value>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the slot state has been detected as inconsistent during failover or recovery.
<b>Recommended Action</b>	For a modular switch, execute the <b>power-off</b> and <b>power-on</b> commands to power cycle the interface module. For a compact switch, reload or power cycle the switch.

### CHS-1004

<b>Message</b>	Interface module attach failed during recovery, disabling slot = <slot number>, rval = <return value>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified interface module has failed during failover or recovery.
<b>Recommended Action</b>	For a modular switch, execute the <b>power-off</b> and <b>power-on</b> commands to power cycle the interface module. For a compact switch, reload or power cycle the switch.

## CHS-1005

<b>Message</b>	Diag attach failed during recovery, disabling slot = <slot number>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the diagnostic interface module attach operation has failed during failover or recovery.
<b>Recommended Action</b>	For a modular switch, execute the <b>power-off</b> and <b>power-on</b> commands to power cycle the interface module. For a compact switch, reload or power cycle the switch.

## DCM Messages

### DCM-1001

<b>Message</b>	VCS ID is changed from <Previous Vcs Id> to <New Vcs Id>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the VCS ID has been changed.
<b>Recommended Action</b>	No action is required.

### DCM-1002

<b>Message</b>	PostBoot processing on <Configuration name> has started.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the PostBoot processing on the specified configuration group has started.
<b>Recommended Action</b>	No action is required.

### DCM-1003

<b>Message</b>	PostBoot processing on <Configuration name> is complete.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the PostBoot processing on the specified configuration group has been completed.
<b>Recommended Action</b>	No action is required.

## DCM-1004

<b>Message</b>	Configuration File Replay has started.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the configuration replay has started.
<b>Recommended Action</b>	No action is required.

## DCM-1005

<b>Message</b>	Configuration Replay is complete.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the configuration replay has been completed.
<b>Recommended Action</b>	No action is required.

## DCM-1006

<b>Message</b>	Event: <Event Name>, Status: <Command status>, User command: <ConfD hpath string>.
<b>Message Type</b>	AUDIT
<b>Class</b>	DCMCFG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the user command has been executed successfully.
<b>Recommended Action</b>	No action is required.

## DCM-1007

<b>Message</b>	No Configuration File Replay.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that configuration file replay will not happen on this system boot up.
<b>Recommended Action</b>	No action is required.

## DCM-1008

<b>Message</b>	Configuration has been reset to default due to changes in configuration metadata.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the configuration schema has changed and therefore the old configuration cannot be retained.
<b>Recommended Action</b>	Replay the saved configuration manually.

## DCM-1009

<b>Message</b>	RBridge ID is set to <Rbridge-id>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the RBridge ID has changed to the specified value.
<b>Recommended Action</b>	No action is required.

## DCM-1010

<b>Message</b>	Operation of setting RBridge ID to <Rbridge-id> failed.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates a failure while changing the RBridge ID.

## 7 DCM-1011

**Recommended Action** No action is required.

### DCM-1011

**Message** VCS enabled: VCS ID is set to <New Vcs Id>.

**Message Type** LOG

**Severity** INFO

**Probable Cause** Indicates that the VCS mode has been enabled.

**Recommended Action** No action is required.

### DCM-1012

**Message** VCS disabled: VCS ID is set to <New Vcs Id>.

**Message Type** LOG

**Severity** INFO

**Probable Cause** Indicates that the VCS mode has been disabled.

**Recommended Action** No action is required.

### DCM-1013

**Message** Reset terminal timeout: <Timeout Reset Command>.

**Message Type** AUDIT

**Class** DCM | CFG

**Severity** INFO

**Probable Cause** Indicates that terminal timeout has been reset.

**Recommended Action** No action is required.

## DCM-1014

<b>Message</b>	Error Node replace model mismatch, chassis disabled WWN: <switch_wwn>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the replacement switch model is different from the model of switch being replaced; this is not supported and therefore the chassis has been disabled.
<b>Recommended Action</b>	Use the similar switch model for replacement.

## DCM-1101

<b>Message</b>	Copy running-config to startup-config operation successful on this node.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the running configuration has been copied to the startup configuration on the node.
<b>Recommended Action</b>	No action is required.

## DCM-1102

<b>Message</b>	Copy running-config to startup-config operation failed on this node.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates failure to copy the running configuration to the startup configuration on the node.
<b>Recommended Action</b>	No action is required.

## DCM-1103

<b>Message</b>	Copy default-config to startup-config operation successful on this node.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the default configuration has been copied to the startup configuration on the node.

## 7 DCM-1104

**Recommended Action** No action is required.

### DCM-1104

**Message** Copy default-config to startup-config operation failed on this node.

**Message Type** LOG

**Severity** INFO

**Probable Cause** Indicates failure to copy the default configuration to the startup configuration on the node.

**Recommended Action** No action is required.

### DCM-1105

**Message** Copy of the downloaded config file to the current running-config has completed successfully on this node.

**Message Type** LOG

**Severity** INFO

**Probable Cause** Indicates that the downloaded configuration file has been copied to the current running configuration.

**Recommended Action** No action is required.

### DCM-1106

**Message** Copy of the downloaded config file to the current startup-config has completed successfully on this node.

**Message Type** LOG

**Severity** INFO

**Probable Cause** Indicates that the downloaded configuration file has been copied to the current startup configuration.

**Recommended Action** No action is required.



## DCM-1107

<b>Message</b>	Startup configuration file has been uploaded successfully to the remote location.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the startup configuration file has been uploaded successfully.
<b>Recommended Action</b>	No action is required.

## DCM-1108

<b>Message</b>	Running configuration file has been uploaded successfully to the remote location.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the running configuration file has been uploaded successfully.
<b>Recommended Action</b>	No action is required.

## DCM-1109

<b>Message</b>	Error (<error string>) encountered while copying configuration to flash/USB.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates a failure to copy configuration file to flash or USB storage device.
<b>Recommended Action</b>	No action is required.

## DCM-1110

<b>Message</b>	Last configuration replay complete.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a configuration was in progress during high availability (HA) failover and the configuration has been replayed.

## 7 DCM-1111

**Recommended Action** No action is required.

### DCM-1111

**Message** Error (<error string>) last configuration replay failed.

**Message Type** LOG

**Severity** ERROR

**Probable Cause** Indicates that a configuration was in progress during high availability (HA) failover and the configuration replay has failed.

**Recommended Action** Reconfigure the failed command.

### DCM-1112

**Message** Running configuration file has been uploaded successfully to flash.

**Message Type** LOG

**Severity** INFO

**Probable Cause** Indicates that the running configuration file has been uploaded successfully.

**Recommended Action** No action is required.

### DCM-1113

**Message** Running configuration file has been uploaded successfully to USB.

**Message Type** LOG

**Severity** INFO

**Probable Cause** Indicates that the running configuration file has been uploaded successfully to a USB storage device.

**Recommended Action** No action is required.

## DCM-1201

<b>Message</b>	FIPS Zeroize operation request received.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the Federal Information Protection Standard (FIPS) Zeroize operation request has been received.
<b>Recommended Action</b>	No action is required.

## DCM-1202

<b>Message</b>	FIPS Zeroize operation: failed as VCS is enabled for this node.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the Federal Information Protection Standard (FIPS) Zeroize operation has failed because VCS is enabled on the node.
<b>Recommended Action</b>	Execute the <b>no vcs enable</b> command to disable the VCS mode and then perform the Zeroize operation.

## DCM-1203

<b>Message</b>	FIPS Zeroize operation: confirmed that VCS is not enabled for this node.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that VCS is not enabled on the node and therefore the Federal Information Protection Standard (FIPS) Zeroize operation will proceed.
<b>Recommended Action</b>	No action is required.

## DCM-1204

<b>Message</b>	FIPS Zeroize operation: all client sessions are notified that Zeroize in progress.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that all client sessions are notified about the Federal Information Protection Standard (FIPS) Zeroize operation in progress and the commands cannot be executed.
<b>Recommended Action</b>	No action is required.

## DCM-1205

<b>Message</b>	FIPS Zeroize operation: starting with cleanup for Zeroize.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the configuration files cleanup for Federal Information Protection Standard (FIPS) Zeroize has started.
<b>Recommended Action</b>	No action is required.

## DCM-1206

<b>Message</b>	FIPS Zeroize operation: starting prepare phase for Zeroize.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the prepare phase for Federal Information Protection Standard (FIPS) Zeroize has started, during which all the services will be shut down.
<b>Recommended Action</b>	No action is required.

## DCM-1207

<b>Message</b>	FIPS Zeroize operation: failed in prepare phase step for Zeroize.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the Federal Information Protection Standard (FIPS) Zeroize operation has failed during the prepare phase.
<b>Recommended Action</b>	No action is required.

## DCM-1208

<b>Message</b>	FIPS Zeroize operation: Running Zeroize for secure deletion of the user configuration data.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the Federal Information Protection Standard (FIPS) Zeroize operation is running for secure deletion of the user configuration data.
<b>Recommended Action</b>	No action is required.

## DCM-1209

<b>Message</b>	FIPS Zeroize operation: failed during secure deletion of the user configuration data.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the Federal Information Protection Standard (FIPS) Zeroize operation has failed during secure deletion of the user configuration data.
<b>Recommended Action</b>	Refer to the reason code indicated in the <b>fips zeroize</b> command output for possible action.

## DCM-1210

<b>Message</b>	FIPS Zeroize operation failed.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the Federal Information Protection Standard (FIPS) Zeroize operation has failed.
<b>Recommended Action</b>	No action is required.

## DCM-1211

<b>Message</b>	FIPS Zeroize operation executed successfully.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the Federal Information Protection Standard (FIPS) Zeroize operation has been executed successfully.
<b>Recommended Action</b>	No action is required.

## DCM-1212

<b>Message</b>	FIPS Zeroize operation failed. Node zeroizing or already zeroized.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the Federal Information Protection Standard (FIPS) Zeroize operation has failed because the node is zeroizing or it was already zeroized.
<b>Recommended Action</b>	No action is required.

## DCM-2001

<b>Message</b>	Event: <Event Name>, Status: success, Info: Successful login attempt through <connection method and IP Address>.
<b>Message Type</b>	AUDIT
<b>Class</b>	DCMCFG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the log in was successful. An IP address is displayed when the login occurs over a remote connection.
<b>Recommended Action</b>	Verify that the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## DCM-2002

<b>Message</b>	Event: <Event Name>, Status: success, Info: Successful logout by user [<User>].
<b>Message Type</b>	AUDIT
<b>Class</b>	DCMCFG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified user has successfully logged out.
<b>Recommended Action</b>	No action is required.

## DCM-3005

<b>Message</b>	DCM ASSERT Service:<message>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates an internal failure in the distributed configuration manager (DCM).
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

## DCM-3051

<b>Message</b>	Encountered Database Corruption. System going down for auto-recovery.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the database operation failed because of database corruption. The system reloads for auto-recovery of the database.
<b>Recommended Action</b>	No action is required.

## DCM-3052

<b>Message</b>	Database Corruption was detected. Therefore, system was rebooted for recovery and may have taken longer than usual.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the last system reload was for auto-recovery of database because the database corruption was detected.
<b>Recommended Action</b>	No action is required.

## DCM-4001

<b>Message</b>	Database schema conversion succeeded.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that after a firmware download, the database schema was successfully converted to the schema supported by the firmware.
<b>Recommended Action</b>	No action is required.



## DCM-4002

<b>Message</b>	Database schema conversion failed.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that after a firmware download, a failure was encountered in converting the database schema to the schema supported by the firmware.
<b>Recommended Action</b>	No action is required.

## DOT1 Messages

### DOT1-1001

<b>Message</b>	802.1X is enabled globally.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that 802.1X is enabled globally.
<b>Recommended Action</b>	No action is required.

### DOT1-1002

<b>Message</b>	802.1X is disabled globally.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that 802.1X is disabled globally.
<b>Recommended Action</b>	No action is required.

### DOT1-1003

<b>Message</b>	802.1X is enabled for port <port_name>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that 802.1X is enabled on the specified port.
<b>Recommended Action</b>	No action is required.

## DOT1-1004

<b>Message</b>	Port <port_name> is forcefully unauthorized.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified port has been unauthorized forcefully using the <b>dot1x port-control force-unauthorized</b> command.
<b>Recommended Action</b>	No action is required.

## DOT1-1005

<b>Message</b>	802.1X authentication is successful on port <port_name>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that authentication has succeeded on the specified port.
<b>Recommended Action</b>	No action is required.

## DOT1-1006

<b>Message</b>	802.1X authentication has failed on port <port_name>.
<b>Message Type</b>	DCE
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that authentication has failed on the specified port due to incorrect credentials or the remote authentication dial-in user service (RADIUS) server is not functioning properly.
<b>Recommended Action</b>	Check the credentials configured with the supplicant and RADIUS server. You can reconfigure the attributes on the RADIUS server using the <b>radius-server</b> command.

## DOT1-1007

<b>Message</b>	No RADIUS server available for authentication.
<b>Message Type</b>	DCE
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that there is no remote authentication dial-in user service (RADIUS) server available for authentication.
<b>Recommended Action</b>	Check whether the configured RADIUS servers are reachable and are functioning.

## DOT1-1008

<b>Message</b>	Port <port_name> is forcefully authorized.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified port has been authorized forcefully using the <b>dot1x port-control forced-authorized</b> command.
<b>Recommended Action</b>	No action is required.

## DOT1-1009

<b>Message</b>	802.1X is disabled for port <port_name>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that 802.1X is disabled on the specified port.
<b>Recommended Action</b>	No action is required.

## DOT1-1010

<b>Message</b>	Port <port_name> is set in auto mode.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified port is set to auto mode.
<b>Recommended Action</b>	No action is required.

## DOT1-1011

<b>Message</b>	DOT1X_PORT_EAPOL_CAPABLE: Peer with MAC <mac1><mac2>.<mac3><mac4>.<mac5><mac6> connected to port <port_name> is EAPOL Capable.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the peer connected to the specified port is DOT1X-capable.
<b>Recommended Action</b>	No action is required.

## DOT1-1012

<b>Message</b>	DOT1X_PORT_EAPOL_CAPABLE: Peer connected to port <port_name> is NOT EAPOL capable.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the peer connected to the specified port is not DOT1X-capable.
<b>Recommended Action</b>	No action is required.

## DOT1-1013

<b>Message</b>	DOT1X test timeout value is set to <Updated test timeout value>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the DOT1X test timeout value has been changed to the specified value.

## 7 DOT1-1013

<b>Recommended Action</b>	No action is required.
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## EANV Messages

### EANV-1001

<b>Message</b>	Port <port number> port fault. Change the SFP transceiver or check the cable.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates a deteriorated small form-factor pluggable (SFP) transceiver, an incompatible SFP transceiver pair, or a faulty cable between the peer ports.
<b>Recommended Action</b>	Verify that compatible SFP transceivers are used on the peer ports, the SFP transceivers have not deteriorated, and the Fibre Channel cable is not faulty. Replace the SFP transceivers or the cable if necessary.

### EANV-1002

<b>Message</b>	Port <port number> chip faulted due to an internal error.
<b>Message Type</b>	LOG   FFDC
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates an internal error. All the ports on this chip will be disabled.
<b>Recommended Action</b>	Reload the system at the next maintenance window.

### EANV-1003

<b>Message</b>	C<chip index>: HW ASIC Chip error. Type = 0x<chip error type>, Error = <chip error string>.
<b>Message Type</b>	LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates an internal error in the application-specific integrated circuit (ASIC) hardware that may degrade the data traffic.
<b>Recommended Action</b>	Reload the system at the next maintenance window.

**EANV-1004**

<b>Message</b>	C<chip index>: Invalid DMA ch pointer, chan:<Channel number>, good_addr:0x<Good address> bad_addr:0x<Bad address>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates an internal error in the application-specific integrated circuit (ASIC) hardware that may degrade the data traffic.
<b>Recommended Action</b>	No action is required. The software will recover from the error.

**EANV-1005**

<b>Message</b>	C<chip index>,A<eanvil id>: Memory allocation failed.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates memory allocation failure in the software.
<b>Recommended Action</b>	Reload the system at the next maintenance window. If the problem persists, replace the switch or contact your switch service provider.

**EANV-1006**

<b>Message</b>	C<chip index>: HW ASIC Chip fault. Type = 0x<chip error type>, Error = <chip error string>.
<b>Message Type</b>	LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates an internal error in the application-specific integrated circuit (ASIC) hardware that renders the chip not operational.
<b>Recommended Action</b>	Reload the system at the next maintenance window. If the problem persists, replace the switch or contact your switch service provider.



## ELD Messages

### ELD-1001

<b>Message</b>	Interface <InterfaceName> is shut down by edge loop detection (ELD) for loop in VLAN <VLAN ID>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a loop has been detected by the edge loop detection (ELD) protocol on the specified interface. The interface has been shut down.
<b>Recommended Action</b>	Identify and fix the Layer 2 bridging loop and then re-enable the interface using the <b>clear edge-loop-detection</b> command.

### ELD-1002

<b>Message</b>	Interface <InterfaceName> is auto-enabled by edge loop detection (ELD).
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the interface on which a loop was detected has been auto-enabled based on the configured shutdown time.
<b>Recommended Action</b>	No action is required.

## EM Messages

### EM-1001

<b>Message</b>	<code>&lt;FRU ID&gt; is overheating: Shutting down.</code>
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that a field replaceable unit (FRU) is shutting down due to overheating. Overheating is mainly due to a faulty fan and can also be caused by the switch environment.
<b>Recommended Action</b>	Verify that the location temperature is within the operational range of the switch. Execute the <b>show environment fan</b> command to verify that all fans are running at normal speeds. Replace fans that are missing or not performing at high enough speeds.

### EM-1002

<b>Message</b>	<code>System fan(s) status &lt;fan FRU&gt;.</code>
<b>Message Type</b>	LOG   FFDC
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a compact system has overheated and may shut down. All the fan speeds are dumped to the console.
<b>Recommended Action</b>	Verify that the location temperature is within the operational range of the switch. Execute the <b>show environment fan</b> command to verify that all fans are running at normal speeds. Replace fans that are missing or not performing at high enough speeds.

### EM-1003

<b>Message</b>	<code>&lt;FRU ID&gt; has unknown hardware identifier: FRU faulted.</code>
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that a field-replaceable unit (FRU) header cannot be read or is invalid. The FRU is faulted.
<b>Recommended Action</b>	Reload or power cycle the switch. Execute the <b>diag systemverification</b> command to verify that the switch does not have hardware problems.

## EM-1004

<b>Message</b>	<FRU ID> failed to power on.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the specified field-replaceable unit (FRU) failed to power on and is not being used. The <i>FRU ID</i> value is composed of a FRU type string and an optional number to identify the unit, slot, or port.
<b>Recommended Action</b>	Reseat the FRU. If the problem persists, replace the FRU.

## EM-1005

<b>Message</b>	<FRU Id> has faulted. Sensor(s) above maximum limits.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that an interface module in the specified slot or the switch (for compact switches) is being shut down for environmental reasons; its temperature or voltage is out of range.
<b>Recommended Action</b>	<p>Check the environment and make sure the room temperature is within the operational range of the switch. Execute the <b>show environment fan</b> command to verify fans are operating properly. Make sure there are no blockages of the airflow around the chassis. If the temperature problem is isolated to the interface module itself, replace the interface module.</p> <p>Voltage problems on a interface module are likely a hardware problem on the interface module itself; replace the interface module.</p>

## EM-1006

<b>Message</b>	<FRU Id> has faulted. Sensor(s) below minimum limits.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the sensors show the voltage is below minimum limits. The switch or specified interface module is being shut down for environmental reasons; the voltage is too low.
<b>Recommended Action</b>	<p>If this problem occurs on an interface module, it usually indicates a hardware problem on the interface module; replace the interface module.</p> <p>If this problem occurs on a switch, it usually indicates a hardware problem on the main board; replace the switch.</p>

## EM-1008

<b>Message</b>	Unit in <Slot number or Switch> with ID <FRU Id> is faulted, it is incompatible with the <type of incompatibility> configuration, check firmware version as a possible cause.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that an interface module inserted in the specified slot or the switch (for compact switches) is not compatible with the platform configuration (includes the firmware version). The interface module is faulted.
<b>Recommended Action</b>	If the interface module is not compatible, upgrade the firmware or replace the interface module and make sure the replacement interface module is compatible with your management module type and firmware.

## EM-1009

<b>Message</b>	<FRU Id> powered down unexpectedly.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the environmental monitor (EM) received an unexpected power-down notification from the specified field-replaceable unit (FRU). This may indicate a hardware malfunction in the FRU.
<b>Recommended Action</b>	Reseat the FRU. If the problem persists, replace the FRU.

## EM-1010

<b>Message</b>	Received unexpected power down for <FRU Id> but <FRU Id> still has power.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the environmental monitor (EM) received an unexpected power-down notification from the specified field-replaceable unit (FRU). However, the specified FRU still appears to be powered up after 4 seconds.
<b>Recommended Action</b>	Reseat the interface module. If the problem persists, replace the interface module.

## EM-1011

<b>Message</b>	Received unexpected power down for <FRU Id>, but cannot determine if it has power.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the environmental monitor (EM) received an unexpected power-down notification from the specified field-replaceable unit (FRU). However, after 4 seconds it could not be determined if it has powered down or not.
<b>Recommended Action</b>	Reseat the interface module. If the problem persists, replace the interface module.

## EM-1012

<b>Message</b>	<FRU Id> failed <state> state transition, unit faulted.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that a switch interface module or compact switch failed to transition from one state to another. It is faulted. The specific failed target state is displayed in the message. There are serious internal Network OS configuration or hardware problems on the switch.
<b>Recommended Action</b>	Reload or power cycle the switch. Execute the <b>diag systemverification</b> command to verify that the switch does not have hardware problems. If the problem persists, replace the FRU.

## EM-1013

<b>Message</b>	Failed to update FRU information for <FRU Id>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the environmental monitor (EM) was unable to update the time alive or original equipment manufacturer (OEM) data in the memory of an field-replaceable unit (FRU).
<b>Recommended Action</b>	The update is automatically attempted again. If it continues to fail, reseat the FRU. If the problem persists, replace the FRU.

## EM-1014

<b>Message</b>	Unable to read sensor on <FRU Id> (<Return code>).
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the environmental monitor (EM) was unable to access the sensors on the specified field-replaceable unit (FRU).
<b>Recommended Action</b>	Reseat the FRU. If the problem persists, replace the FRU.

## EM-1015

<b>Message</b>	Warm recovery failed (<Return code>).
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that a problem was discovered when performing consistency checks during a warm boot.
<b>Recommended Action</b>	Monitor the switch. If the problem persists, reload or power cycle the switch.

## EM-1016

<b>Message</b>	Cold recovery failed (<Return code>).
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that a problem was discovered when performing consistency checks during a cold boot.
<b>Recommended Action</b>	Monitor the switch. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## EM-1020

<b>Message</b>	A problem was found on one or both CID cards (<The return code is for internal use only.>), run the CIDrecov tool to get more information and recovery options.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that a problem was found either accessing one (or both) of the CID cards or with the content of the data stored there. The content problem could be a corrupted data set or a mismatch between the two CID cards.
<b>Recommended Action</b>	Execute the <b>CIDrecov</b> command to get details of the problems found and how to recover.

## EM-1021

<b>Message</b>	A CID card has been inserted, a CID verification audit will be run to detect any mismatches or other problems.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the second CID card was enabled. Because the data may not match, the CID verification audit will be run.
<b>Recommended Action</b>	If an EM-1020 follows, execute the <b>CIDrecov</b> command to get details of the problems found and how to recover. If not, no action is required.

## EM-1022

<b>Message</b>	A CID card access problem has been encountered, please run the CIDrecov tool to get more information and recovery options.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that a problem was encountered while accessing one (or both) of the 2 CID cards or with the content of the data stored there.
<b>Recommended Action</b>	Execute the <b>CIDrecov</b> command to get details of the problems found and how to recover.

## EM-1023

<b>Message</b>	Chassis fan airflow-direction <fan-direction> change is failed.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates failure to change the fan airflow direction.
<b>Recommended Action</b>	No action is required.

## EM-1024

<b>Message</b>	Platform is not supported for changing the fan-airflow direction.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the platform is not supported for changing the configuration.
<b>Recommended Action</b>	No action is required.

## EM-1028

<b>Message</b>	HIL Error: <function> failed to access history log for FRU: <FRU Id> (rc=<return code>).
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	<p>Indicates a problem accessing the data on the Chassis ID (CID) card field-replaceable unit (FRU) or the World Wide Name (WWN) card storage area on the main logic board.</p> <p>The problems were encountered when the software attempted to write to the history log storage to record an event for the specified FRU. This error can indicate a significant hardware problem.</p> <p>The <i>FRU ID</i> value is composed of a FRU type string and an optional number to identify the unit, slot, or port. The return code is for internal use only.</p>
<b>Recommended Action</b>	<p>If the problem persists, reload or power cycle the switch.</p> <p>If the problem still persists, perform one of the following actions:</p> <ul style="list-style-type: none"> <li>• For compact switches, replace the switch.</li> <li>• For CID cards, run the CIDrecov tool to get more information.</li> </ul>



## EM-1029

<b>Message</b>	<FRU Id>, a problem occurred accessing a device on the I2C bus (<error code>). Operational status (<state of the FRU when the error occurred>) not changed, access is being retried.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the inter-integrated circuit (I2C) bus had problems and a timeout occurred.
<b>Recommended Action</b>	<p>This is often a transient error.</p> <p>Watch for the EM-1048 message, which indicates that the problem has been resolved.</p> <p>If the error persists, check for loose or dirty connections. Remove all dust and debris prior to reseating the field-replaceable unit (FRU). Replace the FRU if it continues to fail.</p>

## EM-1031

<b>Message</b>	<FRU Id> ejector not closed.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the environmental monitor (EM) has found a switch interface module that is inserted, but the optical ejector switch is not latched. The interface module in the specified slot is treated as not inserted.
<b>Recommended Action</b>	Close the ejector switch (completely screw in the optical (middle) thumbscrew on the switch fabric module (SFM)) if the field-replaceable unit (FRU) is intended for use. Refer to the appropriate <i>Hardware Reference Manual</i> for instructions on inserting the switch interface modules.

## EM-1032

<b>Message</b>	<FRU Id> is faulted due to a PCI scan failure.
<b>Message Type</b>	LOG   FFDC
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the interface module in the specified slot has been marked as faulty because the peripheral component interconnect (PCI) scan during interface module validation failed.
<b>Recommended Action</b>	<p>Power cycle or reseal the interface module.</p> <p>Execute the <b>diag systemverification</b> command to verify that the switch does not have hardware problems.</p> <p>If the problem persists, replace the interface module.</p>

## EM-1033

<b>Message</b>	MM in <FRU Id> is reloading.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the standby management module has been detected to be in the reload process. The high availability (HA) feature will not be available. This message occurs every time the other management module reloads, even as part of a clean warm failover. In most situations, this message is followed by the EM-1047 message, and no action is required for the management module; however, if the failover was not intentional, it is recommended to find the reason for the failover.
<b>Recommended Action</b>	<p>If the standby management module was just reloaded, wait for the error to clear (execute the <b>show slots</b> command to determine if the errors are cleared). Watch for the EM-1047 message to verify that this error has cleared.</p> <p>If the standby management module state changes to faulty or if it was not intentionally reloaded, check the error logs on the other management module (using the <b>show logging raslog</b> command) to determine the cause of the error state.</p> <p>Reseat the field-replaceable unit (FRU). If the problem persists, replace the FRU.</p>

## EM-1034

<b>Message</b>	<FRU Id> is set to faulty, rc=<return code>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified field-replaceable unit (FRU) has been marked as faulty for the specified reason.
<b>Recommended Action</b>	<p>Reseat the FRU.</p> <p>Execute the <b>diag systemverification</b> command to verify that the switch does not have hardware problems.</p> <p>If the problem persists, replace the FRU.</p>

## EM-1036

<b>Message</b>	<FRU Id> is not accessible.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	<p>Indicates that the specified field-replaceable unit (FRU) is not present on the switch.</p> <p>If the FRU is a Chassis ID (CID) card, then the default WWN and IP addresses are used for the switch.</p>

<b>Recommended Action</b>	Reseat the FRU card.
	If the problem persists, reload or power cycle the switch.
	Execute the <b>diag systemverification</b> command to verify that the switch does not have hardware problems.
	If the problem still persists, replace the FRU.

## EM-1037

<b>Message</b>	<FRU Id> is no longer faulted.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified power supply is no longer marked faulty; probably because its AC power supply has been turned on.
<b>Recommended Action</b>	No action is required.

## EM-1042

<b>Message</b>	Important FRU header data for <FRU Id> is invalid.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the specified field-replaceable unit (FRU) has an incorrect number of sensors in its FRU header-derived information. This could mean that the FRU header was corrupted or read incorrectly, or it is corrupted in the object database, which contains information about all the FRUs.
<b>Recommended Action</b>	Reseat the FRU. If the problem persists, replace the FRU.

## EM-1043

<b>Message</b>	Cannot power <FRU Id> <state (on or off)>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the specified field-replaceable unit (FRU) could not be powered on or off. The FRU is not responding to commands.
<b>Recommended Action</b>	Reseat or replace the FRU.

## EM-1045

<b>Message</b>	<FRU Id> is being powered <new state>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	<p>Indicates that an automatic power adjustment is being made because of the (predicted) failure of a power supply or the insertion or removal of a port interface module.</p> <p>The new state can be one of the following:</p> <ul style="list-style-type: none"> <li>• On - A port interface module is being powered on because more power is available (either a power supply was inserted or a port interface module was removed or powered down).</li> <li>• Off - A port interface module has been powered down because of a (predicted) failure of the power supply.</li> <li>• Down - A newly inserted port interface module was not powered on because there was not enough power available.</li> </ul>
<b>Recommended Action</b>	Refer to the <i>Hardware Reference Manual</i> of your switch for the number of power supplies required for redundancy.

## EM-1046

<b>Message</b>	Error status received for interface module ID <id value> for <FRU Id>, <interface module incompatibility type: platform>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the specified interface module is incompatible.
<b>Recommended Action</b>	<p>If the interface module ID listed is incorrect, the field-replaceable unit (FRU) header for the interface module is corrupted and the interface module must be replaced.</p> <p>If the error is due to platform, the interface module ID listed is not supported for that platform (management module) type. Remove the interface module from the chassis.</p>

## EM-1047

<b>Message</b>	MM in <FRU Id> is booting up.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the firmware in the specified management module is now in the boot process. This message usually follows the EM-1033 message. The new standby management module is in the process of reloading and has turned off the MM_ERR signal.

**Recommended Action** No action is required.

## EM-1048

**Message** <FRU Id> I2C access recovered: state <current state>.

**Message Type** LOG

**Severity** INFO

**Probable Cause** Indicates that the inter-integrated circuit (I2C) bus problems have been resolved and the specified field-replaceable unit (FRU) is accessible on the I2C bus.

**Recommended Action** No action is required. This message is displayed when the EM-1029 error is resolved.

## EM-1049

**Message** FRU <FRU Id> insertion detected.

**Message Type** LOG

**Severity** INFO

**Probable Cause** Indicates that the field-replaceable unit (FRU) of the specified type and location was inserted into the chassis.

**Recommended Action** No action is required.

## EM-1050

**Message** FRU <FRU Id> removal detected.

**Message Type** LOG

**Severity** INFO

**Probable Cause** Indicates that the field-replaceable unit (FRU) of the specified type and location was removed from the chassis.

**Recommended Action** Verify that the FRU was intended to be removed. Replace the FRU as soon as possible.

## EM-1051

<b>Message</b>	<FRU Id>: Inconsistency detected, FRU re-initialized.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that an inconsistent state was found in the specified field-replaceable unit (FRU). This event occurs when the state of the FRU was changing during a failover. The FRU is reinitialized and traffic may have been disrupted.
<b>Recommended Action</b>	No action is required.

## EM-1059

<b>Message</b>	<FRU Id or Switch name> with ID <Interface module Id> may not be supported on this platform, check firmware version as a possible cause.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the interface module inserted in the specified slot or the switch (for compact switches) is not compatible with the switch configuration software. The interface module will not be completely usable.  The interface module may only be supported by a later (or earlier) version of the firmware.
<b>Recommended Action</b>	Change the management module firmware or replace the interface module. Make sure the replacement is compatible with your switch type and firmware.

## EM-1064

<b>Message</b>	<FRU Id> is being powered off (based on user configuration) upon receiving a HW ASIC ERROR, reason:<Fault reason>.
<b>Message Type</b>	LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the interface module has been powered off because a hardware application-specific integrated circuit (ASIC) error was detected, and you have selected to power off the problem interface module when such a condition occurred.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

## EM-1068

<b>Message</b>	High Availability Service Management subsystem failed to respond. A required component is not operating.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the high availability (HA) subsystem has not returned a response within 4 minutes of receiving a request from the environmental monitor (EM). This event usually indicates that some component has not started properly or has terminated. The specific component that has failed may be indicated in other messages or debug data. There are serious internal Network OS configuration or hardware problems on the switch.
<b>Recommended Action</b>	Reload or power cycle the switch. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## EM-1069

<b>Message</b>	<FRU slot identifier> is being powered off.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified interface module has been intentionally powered off.
<b>Recommended Action</b>	No action is required.

## EM-1070

<b>Message</b>	<FRU slot identifier> is being powered on.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified interface module has been intentionally powered on.
<b>Recommended Action</b>	No action is required.

## EM-2003

<b>Message</b>	<FRU Id or switch for compact switches> has failed the POST tests. FRU is being faulted.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified field-replaceable unit (FRU) has failed the Power-On Self-Test (POST). Refer to the <code>/tmp/post[1/2].slot#.log</code> file for more information on the faults. To view this log file you must be logged in at the root level. The login ID is switch name for compact systems.
<b>Recommended Action</b>	<p>On modular systems, reseal the specified FRU.</p> <p>On compact switches, reload or power cycle the switch.</p> <p>If the problem persists:</p> <ul style="list-style-type: none"><li>• Execute the <b>diag systemverification</b> command to verify that the switch does not have hardware problems.</li><li>• On modular systems, replace the specified FRU; For compact switch, replace the switch.</li></ul>



# ERCP Messages

## ERCP-1000

<b>Message</b>	Multiple ECC errors are detected and the system will reload automatically.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that error checking and correction (ECC) errors occurred due to multi-bit corruption.
<b>Recommended Action</b>	No action is required. The system will reload automatically to recover from the error.

## ESS Messages

### ESS-1008

<b>Message</b>	Fabric Name - <fabric_name> configured (received from domain <domain ID>).
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified fabric name has been configured or renamed.
<b>Recommended Action</b>	No action is required.

### ESS-1009

<b>Message</b>	Fabric Name Mismatch - local (<fabric_name>) remote (<r_fabric_name> - received from domain <domain ID>).
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the specified fabric name is not unique for this fabric.
<b>Recommended Action</b>	Select an appropriate fabric name and set it again from any switch in the fabric.

### ESS-1010

<b>Message</b>	Duplicate Fabric Name - <fabric_name> matching with FID <Fabric ID>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the configured fabric name is already used for another partition.
<b>Recommended Action</b>	Select a different fabric name and reconfigure.

## FABR Messages

### FABR-1001

<b>Message</b>	port <port number>, <segmentation reason>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the specified switch port is isolated because of a segmentation resulting from mismatched configuration parameters.
<b>Recommended Action</b>	Based on the segmentation reason displayed in the message, look for a possible mismatch of relevant parameters in the switches at both ends of the link.

### FABR-1003

<b>Message</b>	port <port number>: ILS <command> bad size <payload size>, wanted <expected payload size>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that an internal link service (ILS) information unit of invalid size has been received. The neighbor switch has sent a payload with an invalid size.
<b>Recommended Action</b>	Investigate the neighbor switch for problems. Execute the <b>show logging raslog</b> command on the neighbor switch to view the error log for additional messages.  Check for a faulty cable or deteriorated small form-factor pluggable (SFP) transceiver. Replace the cable or SFP transceiver if necessary.  If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

### FABR-1004

<b>Message</b>	port: <port number>, req iu: 0x<address of IU request sent>, state: 0x<command sent>, resp iu: 0x<address of response IU received>, state 0x<response IU state>, <additional description>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the information unit (IU) response was invalid for the specified command sent. The fabric received an unknown response. This message is rare and usually indicates a problem with the Network OS kernel.

<b>Recommended Action</b>	<p>If this message is due to a one time event because of the incoming data, the system will discard the frame.</p> <p>If the message persists, execute the <b>copy support</b> command and contact your switch service provider.</p>
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## FABR-1005

<b>Message</b>	<code>&lt;command sent&gt;: port &lt;port number&gt;: status 0x&lt;reason for failure&gt; (&lt;description of failure reason&gt;) xid = 0x&lt;exchange ID of command&gt;.</code>
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the application failed to send an async command for the specified port. The message provides additional details regarding the reason for the failure and the exchange ID of the command. This can happen if a port is about to go down.
<b>Recommended Action</b>	<p>No action is required. This message is often transitory.</p> <p>If the message persists, execute the <b>copy support</b> command and contact your switch service provider.</p>

## FABR-1006

<b>Message</b>	<code>Node free error, caller: &lt;error description&gt;.</code>
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the Network OS is trying to free or deallocate memory space that has already been deallocated. This message is rare and usually indicates a problem with the Network OS.
<b>Recommended Action</b>	If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## FABR-1007

<b>Message</b>	<code>IU free error, caller: &lt;function attempting to de-allocate IU&gt;.</code>
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that a failure occurred when deallocating an information unit (IU). This message is rare and usually indicates a problem with the Network OS.
<b>Recommended Action</b>	If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## FABR-1008

<b>Message</b>	<error description>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	<p>Indicates that errors occurred during the request RBridge ID state; the information unit (IU) cannot be allocated or sent. If this message occurs with FABR-1005, the problem is usually transitory. Otherwise, this message is rare and usually indicates a problem with the Network OS. The error descriptions are as follows:</p> <ul style="list-style-type: none"> <li>• FAB RDI: cannot allocate IU</li> <li>• FAB RDI: cannot send IU</li> </ul>
<b>Recommended Action</b>	<p>No action is required if the message appears with the FABR-1005 message.</p> <p>If the message persists, execute the <b>copy support</b> command and contact your switch service provider.</p>

## FABR-1009

<b>Message</b>	<error description>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	<p>Indicates that errors were reported during the exchange fabric parameter (EFP) state; cannot allocate RBridge IDs list due to a faulty EFP type. This message is rare and usually indicates a problem with the Network OS.</p>
<b>Recommended Action</b>	<p>The fabric daemon will discard the EFP. The system will recover through the EFP retrieval process.</p> <p>If the message persists, execute the <b>copy support</b> command and contact your switch service provider.</p>

## FABR-1010

<b>Message</b>	<error description>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	<p>Indicates that errors occurred while cleaning up the request RBridge ID (RDI). The error description provides further details. This message is rare and usually indicates a problem with the Network OS.</p>
<b>Recommended Action</b>	<p>If the message persists, execute the <b>copy support</b> command and contact your switch service provider.</p>

## FABR-1012

<b>Message</b>	<code>&lt;function stream&gt;: no such type, &lt;invalid type&gt;.</code>
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the fabric is not in the appropriate state for the specified process. This message is rare and usually indicates a problem with the Network OS.
<b>Recommended Action</b>	The fabric daemon will take proper action to recover from the error. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## FABR-1013

<b>Message</b>	<code>No Memory: pid=&lt;fabric process id&gt; file=&lt;source file name&gt; line=&lt;line number within the source file&gt;.</code>
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that there is not enough memory in the switch for the fabric module to allocate. This message is rare and usually indicates a problem with the Network OS.
<b>Recommended Action</b>	The system will recover by failing over to the standby management module. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## FABR-1014

<b>Message</b>	<code>Port &lt;port number&gt; Disabled: RBridge IDs overlap. Insistent RBridge ID &lt;RBridge ID&gt; could not be obtained. Principal is trying to assign RBridge ID &lt;RBridge ID&gt;.</code>
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the switch received an RBridge ID other than the one it requested. The port was disabled because the requested insistent RBridge ID could not be obtained.
<b>Recommended Action</b>	Change the RBridge ID of the local node (if applicable) using the <b>vcs rbridge-id</b> command. You can toggle the disabled port using the <b>fabric isl enable</b> and <b>no fabric isl enable</b> commands after the RBridge ID change.

## FABR-1019

<b>Message</b>	Critical fabric size (<current RBridges>) exceeds supported configuration (<supported RBridges>).
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that this switch is a value-line switch and has exceeded the configured fabric size: that is, a specified limit to the number of RBridges. This limit is defined by your specific value-line license key. The fabric size has exceeded this specified limit and the grace period counter has started.
<b>Recommended Action</b>	Bring the fabric size within the licensed limits. Either a full fabric license must be added or the size of the fabric must be changed to within the licensed limit. Contact your switch provider to obtain a full fabric license.

## FABR-1029

<b>Message</b>	Port <port number> negotiated <flow control mode description> (mode = <received flow control mode>).
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a different flow control mode, as described in the message, is negotiated with the port at the other end of the link. The flow control is a mechanism of throttling the transmitter port to avoid buffer overrun at the receiving port. There are three types of flow control modes: <ul style="list-style-type: none"> <li>• VC_RDY mode: Virtual-channel flow control mode. This is a proprietary protocol.</li> <li>• R_RDY mode: Receiver-ready flow control mode. This is the Fibre Channel standard protocol, that uses R_RDY primitive for flow control.</li> <li>• DUAL_CR mode: Dual-credit flow control mode. In both of the previous modes, the buffer credits are fixed, based on the port configuration information. In this mode, the buffer credits are negotiated as part of exchange link parameter (ELP) exchange. This mode also uses R_RDY primitive for flow control.</li> </ul>
<b>Recommended Action</b>	No action is required.

## FABR-1030

<b>Message</b>	fabric: RBridge ID <new RBridge ID> (was <old RBridge ID>).
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the RBridge ID has changed.

**Recommended Action** No action is required.

## FABR-1039

**Message** Invalid RBridge ID zero received from principal switch (RBridge ID = <Principal RBridge id>).

**Message Type** LOG

**Severity** WARNING

**Probable Cause** Indicates that an invalid RBridge ID zero has been received.

**Recommended Action** Check the reason for the principal switch to assign an invalid RBridge ID zero.

## FABR-1041

**Message** Port <Port that is being disabled> is disabled due to trunk protocol error.

**Message Type** LOG

**Severity** ERROR

**Probable Cause** Indicates that a link reset was received before the completion of the trunking protocol on the port.

**Recommended Action** Toggle the port using the **no fabric isl enable** and **fabric isl enable** commands.  
The port may recover by re-initialization of the link.  
If the message persists, execute the **copy support** command and contact your switch service provider.

## FABR-1055

**Message** Switch <Switchname> will be taken offline and back online for RBridge Id auto configuration to take effect.

**Message Type** LOG

**Severity** WARNING

**Probable Cause** Indicates that the specified switch has been bounced for the RBridge ID auto configuration to take effect on the unconfigured VCS switch.

**Recommended Action** No action is required.



## FABS Messages

### FABS-1001

<b>Message</b>	<Function name> <Description of memory need>.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the system is low on memory and cannot allocate more memory for new operations. This is usually an internal Network OS problem or file corruption. The <i>Description of memory need</i> variable specifies the memory size that was being requested. The value could be any whole number.
<b>Recommended Action</b>	Reload or power cycle the switch.

### FABS-1002

<b>Message</b>	<Function name> <Description of problem>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that an internal problem has been detected by the software. This is usually an internal Network OS problem or file corruption.
<b>Recommended Action</b>	Reload or power cycle the switch. If the message persists, execute the <b>firmware download</b> command to update the firmware.

### FABS-1004

<b>Message</b>	<Function name and description of problem> process <Process ID number> (<Current command name>) <Pending signal number>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that an operation has been interrupted by a signal. This is usually an internal Network OS problem or file corruption.
<b>Recommended Action</b>	Reload or power cycle the switch.

## FABS-1005

<b>Message</b>	<Function name and description of problem> (<ID type>= <ID number>).
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	<p>Indicates that an unsupported operation has been requested. This is usually an internal Network OS problem or file corruption. The following is the possible value for the <i>function name and description of problem</i> variable:</p> <p>fabsys_write: Unsupported write operation: process xxx</p> <p>where xxx is the process ID (PID), which could be any whole number.</p>
<b>Recommended Action</b>	<p>Reload or power cycle the active management module (for modular systems) or the switch (for compact systems).</p> <p>If the message persists, execute the <b>firmware download</b> command to update the firmware.</p>

## FABS-1006

<b>Message</b>	<Function name and description of problem>: object <object type id> unit <slot>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	<p>Indicates that there is no device in the slot with the specified object type ID in the system module record. This could indicate a serious Network OS data problem on the switch. The following are the possible values for the <i>function name and description of problem</i> variable:</p> <ul style="list-style-type: none"> <li>• setSoftState: bad object</li> <li>• setSoftState: invalid type or unit</li> <li>• media_sync: Media oid mapping failed</li> <li>• fabsys_media_i2c_op: Media oid mapping failed</li> <li>• fabsys_media_i2c_op: obj is not media type</li> <li>• media_class_hdlr: failed sending media state to blade driver</li> </ul>
<b>Recommended Action</b>	<p>If the message is isolated, monitor the error messages on the switch. If the error is repetitive or if the fabric failed, fail over or reload the switch.</p> <p>If the message persists, execute the <b>firmware download</b> command to update the firmware.</p>

## FABS-1007

<b>Message</b>	<Function name>: Media state is invalid - status=<Status value>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the Network OS has detected an invalid value in an object status field. This is usually an internal Network OS problem or file corruption.
<b>Recommended Action</b>	Reload or power cycle the switch. If the message persists, execute the <b>firmware download</b> command to update the firmware.

## FABS-1008

<b>Message</b>	<Function name>: Media OID mapping failed.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the Network OS was unable to locate a necessary object handle. This is usually an internal Network OS problem or file corruption.
<b>Recommended Action</b>	Reload or power cycle the switch.

## FABS-1009

<b>Message</b>	<Function name>: type is not media.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the Network OS was unable to locate an appropriate object handle. This is usually an internal Network OS problem or file corruption.
<b>Recommended Action</b>	Reload or power cycle the switch.

## FABS-1010

<b>Message</b>	<Function name>: Wrong media_event <Event number>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the Network OS detected an unknown event type. This is usually an internal Network OS problem or file corruption.
<b>Recommended Action</b>	Reload or power cycle the switch. If the message persists, execute the <b>firmware download</b> command to update the firmware.

## FABS-1011

<b>Message</b>	<Method name>[<Method tag number>]:Invalid input state 0x<Input state code>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that an unrecognized state code was used in an internal Network OS message for a field-replaceable unit (FRU).
<b>Recommended Action</b>	Reload or power cycle the management module or switch. If the message persists, execute the <b>firmware download</b> command to update the firmware.

## FABS-1013

<b>Message</b>	<Method name>[<Method tag number>]:Unknown interface module type 0x<Interface module type>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that an unrecognized type of interface module has been discovered in the system.  This error can be caused by one of the following reasons: an incorrect field-replaceable unit (FRU) header, inability to read the FRU header, or the interface module may not be supported by this platform or Network OS version.
<b>Recommended Action</b>	Verify that the interface module is valid for use in this system and this version of Network OS. Reseat the interface module.  If this is a valid interface module and reseating does not solve the problem, replace the interface module.

## FABS-1014

<b>Message</b>	<code>&lt;Method name&gt;[&lt;Method tag number&gt;]:Unknown FRU type 0x&lt;FRU Object type&gt;.</code>
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that an unrecognized type of field-replaceable unit (FRU) has been discovered in the system. This error can be caused by one of the following reasons: an incorrect FRU header, inability to read the FRU header, or the FRU may not be supported by this platform or Network OS version.
<b>Recommended Action</b>	Verify that the FRU is valid for use in this system and this version of Network OS. Reseat the FRU. If this is a valid FRU and reseating does not solve the problem, replace the FRU.

## FABS-1015

<b>Message</b>	<code>&lt;Method name&gt;[&lt;Method tag number&gt;]:Request to enable FRU type 0x&lt;FRU Object type&gt;, unit &lt;Unit number&gt; failed. err code &lt;Error code&gt;.</code>
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified field-replaceable unit (FRU) could not be enabled. This is usually an internal Network OS problem.
<b>Recommended Action</b>	Remove and reinsert the FRU. Reload or power cycle the management module or switch. If the message persists, execute the <b>firmware download</b> command to update the firmware.

## FCMC Messages

### FCMC-1001

<b>Message</b>	System is low on memory and has failed to allocate new memory.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the switch is low on memory and therefore failed to allocate new memory for an information unit (IU).
<b>Recommended Action</b>	A compact switch will automatically reload. For a modular switch, the active management module will automatically fail over and the standby management module become the active management module.

## FCOE Messages

### FCOE-1001

<b>Message</b>	<code>calloc failed for &lt;object&gt;.</code>
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates a memory failure.
<b>Recommended Action</b>	Check the switch memory status using the <b>show process memory</b> command.

### FCOE-1010

<b>Message</b>	<code>Clean up of login failed for port:&lt;port number&gt;.</code>
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates an invalid port number.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and restart the system. Contact your switch service provider.

### FCOE-1019

<b>Message</b>	<code>FLOGI ignored as FCMAP not configured on FCoE VLAN.</code>
<b>Message Type</b>	DCE
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that FCMAP is not configured on the Fibre Channel over Ethernet (FCoE) VLAN.
<b>Recommended Action</b>	Configure FCMAP using the <b>fcmmap</b> command.

## FCOE-1020

<b>Message</b>	Login rejected by FC stack.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the login was rejected by the Fibre Channel (FC) stack.
<b>Recommended Action</b>	No action is required. The device will try to login again.

## FCOE-1022

<b>Message</b>	Max FCoE device login limit reached.
<b>Message Type</b>	DCE
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the switch has reached its maximum allowed Fibre Channel over Ethernet (FCoE) device limit.
<b>Recommended Action</b>	Do not add any more FCoE devices to the switch.

## FCOE-1023

<b>Message</b>	Too many logins on FCoE controller, max allowed = <MAX_DEVS_PER_CTLR>.
<b>Message Type</b>	DCE
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the controller has reached its maximum allowed Fibre Channel over Ethernet (FCoE) login limit.
<b>Recommended Action</b>	Log out some of the logged-in devices using one of the following commands: <b>no fcoeport default</b> , <b>shutdown</b> , and <b>clear fcoe login</b> , and then log in the new device. You can view the list of logged-in devices using the <b>show fcoe login</b> command.



## FCOE-1024

<b>Message</b>	FDISC received from Enode without prior FLOGI.
<b>Message Type</b>	DCE
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that a fabric discovery (FDISC) frame is received from the end node that has not logged in. The end node must send a fabric login (FLOGI) before it can send an FDISC.
<b>Recommended Action</b>	No action is required.

## FCOE-1029

<b>Message</b>	Version mismatch between FIP FDISC and root VN port.
<b>Message Type</b>	DCE
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the FCoE Initialization Protocol (FIP) version does not match between the fabric login (FLOGI) and fabric discovery (FDISC) frames.
<b>Recommended Action</b>	Make sure that the device that is trying to log in conforms to the FC-BB-5 standard.

## FCOE-1030

<b>Message</b>	Version mismatch between FIP LOGO and root VN port.
<b>Message Type</b>	DCE
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the switch received an FCoE Initialization Protocol (FIP) logout (LOGO) request but the device logged in with a different FIP version.
<b>Recommended Action</b>	Make sure that the device that is trying to log in conforms to the FC-BB-5 standard.

## FCOE-1032

<b>Message</b>	The chassis is in WARM RECOVERING state.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the chassis is in a warm recovering state and therefore cannot perform the protocol-specific actions for the time being.
<b>Recommended Action</b>	Wait until the chassis has fully recovered before you perform any operations.

## FCOE-1034

<b>Message</b>	FIP/FCoE frame on priority <pkt_ctrlp->pri_in> for <Name of the following string> <MAC address or WWN of the source device> on interface <Rbridge-id>/<Slot>/<Port> discarded because PFC/FCoE not enabled on this priority.
<b>Message Type</b>	DCE
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the specified priority is not priority-based flow control (PFC) or Fibre Channel over Ethernet (FCoE) enabled.
<b>Recommended Action</b>	Change the CEE map assigned to the FCoE map to accommodate the PFC for the specified FCoE priority or change the FCoE priority using the <b>fabric-map default</b> command under the FCoE configuration mode.

## FCOE-1035

<b>Message</b>	Virtual FCoE port <port number> is online.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates an administrative action on the Fibre Channel over Ethernet (FCoE) port.
<b>Recommended Action</b>	No action is required.

## FCOE-1036

<b>Message</b>	Virtual FCoE port <port number> is offline.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates an administrative action on the Fibre Channel over Ethernet (FCoE) port.
<b>Recommended Action</b>	No action is required.

## FCOE-1037

<b>Message</b>	Slot <slot_id> not ready in FCoE daemon.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the slot state has been detected as inconsistent during high availability (HA) failover.
<b>Recommended Action</b>	No action is required.

## FCOE-1038

<b>Message</b>	Interface module removed during FCoE port create. ifindex 0x<if_index> uport <uport_num>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the interface module was removed before the system could fully complete the online event for the interface module.
<b>Recommended Action</b>	No action is required.

## FCPH Messages

### FCPH-1001

<b>Message</b>	<function>: <failed function call> failed, out of memory condition.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	<p>Indicates that the switch is low on memory and therefore failed to allocate new memory for a Fibre Channel driver instance.</p> <p>The <i>function</i> can only be <code>fc_create</code>. This function creates a Fibre Channel driver instance.</p> <p>The <i>failed function call</i> can only be <code>kmalloc_wrapper</code>, which has failed. This function call is for kernel memory allocation.</p>
<b>Recommended Action</b>	<p>A compact switch will automatically reload.</p> <p>For a modular switch, the active management module will automatically fail over and the standby management module become the active management module.</p>

## FLOD Messages

### FLOD-1001

<b>Message</b>	Unknown LSR type: port <port number>, type <LSR header type>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the link state record (LSR) type is unknown. The following are the known LSR header types: 1 - Unicast and 3 - Multicast.
<b>Recommended Action</b>	No action is required; the record is discarded.

### FLOD-1003

<b>Message</b>	Link count exceeded in received LSR, value = <link count number>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the acceptable link count received was exceeded in the link state record (LSR).
<b>Recommended Action</b>	No action is required; the record is discarded.

### FLOD-1004

<b>Message</b>	Excessive LSU length = <LSU length>.
<b>Message Type</b>	LOG   FFDC
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the link state update (LSU) size exceeds the value that the system can support.
<b>Recommended Action</b>	Reduce the number of switches in the fabric or reduce the number of redundant inter-switch links (ISLs) between two switches.

**FLOD-1005**

<b>Message</b>	Invalid received RBridge ID: <RBridge number>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the received link state record (LSR) contained an invalid RBridge number.
<b>Recommended Action</b>	No action is required; the LSR is discarded.

**FLOD-1006**

<b>Message</b>	Transmitting invalid RBridge ID: <RBridge number>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the transmit link state record (LSR) contained an invalid RBridge number.
<b>Recommended Action</b>	No action is required; the LSR is discarded.

## FSPF Messages

### FSPF-1001

<b>Message</b>	Input Port <port number> out of range.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified input port number is out of range because it does not exist on the switch.
<b>Recommended Action</b>	No action is required. This is a temporary kernel error that does not affect your system. If the problem persists, execute the <b>copy support</b> command and contact your service provider.

### FSPF-1002

<b>Message</b>	Wrong neighbor ID (<RBridge ID>) in Hello message from port <port number>, expected ID = <RBridge ID>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the switch has received a wrong RBridge ID in the Hello message from its neighbor switch. This may happen when the RBridge ID for a switch has been changed.
<b>Recommended Action</b>	No action is required.

### FSPF-1003

<b>Message</b>	Remote RBridge ID <RBridge number> out of range, input port = <port number>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified remote RBridge ID is out of range.
<b>Recommended Action</b>	No action is required. The frame is discarded.

## FSPF-1005

<b>Message</b>	Wrong Section Id <section number>, should be <section number>, input port = <port number>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that an incorrect section ID was reported from the specified input port. The section ID is part of the fabric shortest path first (FSPF) protocol and is used to identify a set of switches that share an identical topology database.
<b>Recommended Action</b>	This switch does not support a non-zero section ID. Any connected switch from another manufacturer with a section ID other than 0 is incompatible in a fabric of Brocade switches. Disconnect the incompatible switch.

## FSPF-1006

<b>Message</b>	FSPF Version <FSFP version> not supported, input port = <port number>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the fabric shortest path first (FSPF) version is not supported on the specified input port.
<b>Recommended Action</b>	Update the FSPF version by running the <b>firmware download</b> command. All current versions of the Network OS support FSPF version 2.

## FSPF-1007

<b>Message</b>	ICL triangular topology is broken between the neighboring RBridges: <RBridge number> and <RBridge number>. Please fix it ASAP.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the inter-chassis link (ICL) triangular topology is broken and becomes linear. It may cause frame drop or performance slowdown.
<b>Recommended Action</b>	Investigate the ICLs and reconnect the switches to form a triangular topology.



## FSPF-1008

<b>Message</b>	ICL triangular topology is formed among the RBridges: <RBridge number> (self), <RBridge number>, and <RBridge number>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the inter-chassis link (ICL) triangular topology is formed.
<b>Recommended Action</b>	No action is required.

## FSS Messages

### FSS-1001

<b>Message</b>	Component (<component name>) dropping HA data update (<update ID>).
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that an application has dropped a high availability (HA) data update.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

### FSS-1002

<b>Message</b>	Component (<component name>) sending too many concurrent HA data update transactions (<dropped update transaction ID>).
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that an application has sent too many concurrent high availability (HA) data updates.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

### FSS-1003

<b>Message</b>	Component (<component name>) misused the update transaction (<transaction ID>) without marking the transaction beginning.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the fabric synchronization service (FSS) has dropped the update because an application has not set the transaction flag correctly.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

## FSS-1004

<b>Message</b>	FSS out of memory (<memory allocation with number of bytes>).
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the system ran out of memory.
<b>Recommended Action</b>	Check memory usage on the switch using the <b>show process memory</b> command. Execute the <b>copy support</b> command and contact your switch service provider.

## FSS-1005

<b>Message</b>	FSS read failure.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the read system call to the fabric synchronization service (FSS) device has failed.
<b>Recommended Action</b>	If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## FSS-1006

<b>Message</b>	No FSS message available.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that data is not available on the fabric synchronization service (FSS) device.
<b>Recommended Action</b>	If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## FSS-1007

<b>Message</b>	<component name>: Faulty Ethernet connection.
<b>Message Type</b>	LOG   FFDC
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the Ethernet connection between the active and standby management modules is not healthy. The error occurs when the standby management module does not respond to a request from the active management module within 5 seconds. This usually indicates a problem with the internal Ethernet connection and a disruption of the synchronization process.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

## FSS-1008

<b>Message</b>	FSS Error on service component [<service name><service instance>:<component name>]: <Error Message>.
<b>Message Type</b>	LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that a fabric synchronization service (FSS) error has occurred.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

## FSS-1009

<b>Message</b>	FSS Error on service instance [<service name><service instance>]: <Error Message>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that a fabric synchronization service (FSS) error has occurred.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

## FSS-1010

<b>Message</b>	FSS Warning: <Warning Message>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that a fabric synchronization service (FSS) error may have occurred.
<b>Recommended Action</b>	No action is required.

## FSS-1011

<b>Message</b>	All services complete the critical recoveries in <time taken for the critical service recovery> sec.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates a non-disruptive failover with warm recovery.
<b>Recommended Action</b>	If the time taken for critical service recovery is more than 8 seconds, contact your switch service provider.

## FVCS Messages

### FVCS-1003

<b>Message</b>	Possible vLAG Split Detected vLAG - ifindex (<vLAG ifindex>), split RBridge(<split RBridge >).
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the RBridge has left the cluster.
<b>Recommended Action</b>	If the RBridge was not disabled on purpose, check if it is still connected to the cluster using the <b>show fabric isl</b> command.

### FVCS-1004

<b>Message</b>	HA Sync Failure- THA API call Failed and Retries timed out rc (<API RC>).
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the Transparent High Availability (THA) library state synchronization attempt has failed.
<b>Recommended Action</b>	No action is required. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

### FVCS-2001

<b>Message</b>	FCS Primary Update Send attempt Failed - reason (<Failure Reason>).
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the remote switch has rejected the update. Refer to the failure reason for more details.
<b>Recommended Action</b>	Execute the <b>show fabric isl</b> command to check the cluster connection status. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## FVCS-2002

<b>Message</b>	Link State Update sent to Remote RBridge Failed - reason (<Failure Reason Code>).
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates a possible cluster infrastructure problem.
<b>Recommended Action</b>	Execute the <b>show fabric isl</b> command to check the cluster connection status. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## FVCS-2003

<b>Message</b>	Lag Configuration Update sent to Remote RBridge Failed - reason (<Failure Reason Code>).
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates a possible cluster infrastructure problem.
<b>Recommended Action</b>	Execute the <b>show fabric isl</b> command to check the cluster connection status. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## FVCS-2004

<b>Message</b>	FCS Commit stage Failed - cfg type <Configuration Type>, cfg tag <Configuration Tag>, domain <Source Domain>, reason (<Failure Reason Code>).
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the fabric configuration server (FCS) commit stage has failed. The failure reason can be one of the following: <ul style="list-style-type: none"> <li>• 7 - Memory allocation error</li> <li>• 14 - Reliable Transport Write and Read (RTWR) send failure</li> </ul>
<b>Recommended Action</b>	Check the status of the virtual link aggregation group (vLAG) identified by the configuration tag. If the message persists, execute the <b>copy support</b> command on both this RBridge and the remote RBridge specified by the domain field and contact your switch service provider.

## FVCS-2005

<b>Message</b>	FCS Cancel stage Failed - cfg type <Configuration Type>, cfg tag <Configuration Tag>, domain <Source Domain>, reason (<Failure Reason Code>).
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the fabric configuration server (FCS) cancel stage has failed. The failure reason can be one of the following: <ul style="list-style-type: none"> <li>• 7 - Memory allocation error</li> <li>• 14 - Reliable Transport Write and Read (RTWR) send failure</li> </ul>
<b>Recommended Action</b>	Check the status of the virtual link aggregation group (vLAG) identified by the configuration tag. If the message persists, execute the <b>copy support</b> command on both this RBridge and the remote RBridge specified by the domain field and contact your switch service provider.

## FVCS-2006

<b>Message</b>	FCS Transaction Hung - cfg type <Configuration Type>, cfg tag <Configuration Tag>, trans state<Trans State>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the update cannot be completed for an unknown reason.
<b>Recommended Action</b>	Check the status of the virtual link aggregation group (vLAG) identified by the configuration tag. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## FVCS-3001

<b>Message</b>	Eth_ns Message Queue Overflow. Failed to send Update. MAC or MCAST database may be out of sync. Queue size = (<Queue Size>).
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the Eth_ns (component of FVCS) that kept the MCAST and L2 databases in sync, cannot send an update to the remote RBridges because its internal message queue is full. This error is due to a temporary congestion issue on the local RBridge.
<b>Recommended Action</b>	The RBridge must leave and rejoin the fabric for synchronization of the MCAST and L2 databases.



## FVCS-3002

<b>Message</b>	Eth_ns Message Queue Overflow. Failed to add received Update. MAC or MCAST database may be out of sync. Queue size = (<Queue Size>).
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the Eth_ns (component of FVCS) that kept the MCAST and L2 databases in sync, cannot process an update received from the remote RBridge because its internal message queue is full. This error is due to a temporary congestion issue on the local RBridge.
<b>Recommended Action</b>	No action is required. The L2 and MCAST databases will synchronize with the fabric after the local congestion issue is resolved.

## FVCS-3003

<b>Message</b>	Local VRID config attempt failed. Existing VLAN_ID mismatch. VRID <VRID>, VRB_ID <VRB_ID>, New VLAN_ID <New VLAN_ID>, Existing VLAN_ID <Existing VLAN_ID>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates virtual router ID (VRID) configuration conflict.
<b>Recommended Action</b>	Check existing VRID configurations.

## FVCS-3004

<b>Message</b>	Local VRID config attempt failed. Existing VMAC mismatch. VRID <VRID>, VRB_ID <VRB_ID>, New VMAC <New VMAC>, Existing VMAC <Existing VMAC>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates virtual router ID (VRID) configuration conflict.
<b>Recommended Action</b>	Check existing VRID configurations.

**FVCS-3005**

<b>Message</b>	Remote VRB_ID update failed. Existing VRID mismatch. VRB_ID <VRB_ID>, SRC_Domain <SRC_Domain> New VRID <New VRID>, Existing VRID <Existing VRID>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates virtual router ID (VRID) configuration conflict.
<b>Recommended Action</b>	Check existing VRID configurations.

**FVCS-3006**

<b>Message</b>	Remote VRB_ID update failed. Existing VLAN_ID mismatch. VRB_ID <VRB_ID>, SRC_Domain <SRC_Domain> New VLAN_ID <New VLAN_ID>, Existing VLAN_ID <Existing VLAN_ID>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates virtual router ID (VRID) configuration conflict.
<b>Recommended Action</b>	Check existing VRID configurations.

**FVCS-3007**

<b>Message</b>	Remote VRB_ID update failed. Existing VMAC mismatch. VRB_ID <VRB_ID>, SRC_Domain <SRC_Domain>, New VMAC <New VMAC>, Existing VMAC <Existing VMAC>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates virtual router ID (VRID) configuration conflict.
<b>Recommended Action</b>	Check existing VRID configurations.

## FVCS-3008

<b>Message</b>	MAC (L2) database out of sync, Down-level domain <Domain>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the current media access control (MAC) count is not supported on the specified downlevel domain.
<b>Recommended Action</b>	Upgrade the firmware to Network OS v3.0.0 or later.

## FVCS-3009

<b>Message</b>	Eth_ns buffer capacity exceeded - MAC or MCAST database may be out of sync.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the current media access control (MAC) count exceeds the supported limit.
<b>Recommended Action</b>	Reduce the number of Ethernet devices in the fabric.

## FVCS-3010

<b>Message</b>	Fab_STP Message Queue Overflow. Failed to send Update. MSTP may be out of sync. Queue size = (<Queue Size>).
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the fab_stp (component of FVCS) that keeps MSTP in sync cannot send an update to the remote R Bridges because its internal message queue is full. This error is due to a temporary congestion issue on the local R Bridge.
<b>Recommended Action</b>	The R Bridge must leave and rejoin the fabric for synchronization of the spanning tree databases.

## FVCS-3011

<b>Message</b>	Fab_STP Message Queue Overflow. Failed to add received Update. Spanning tree (MSTP) database may be out of sync. Queue size = (<Queue Size>).
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the fab_stp (component of FVCS) that keeps MSTP in sync cannot process an update received from the remote RBridge because its internal message queue is full. This error is due to a temporary congestion issue on the local RBridge.
<b>Recommended Action</b>	No action is required. MSTP will synchronize with the fabric after the local congestion issue is resolved.

## FVCS-3012

<b>Message</b>	Eth_ns buffer capacity exceeded - MCAST (IGMP) database may be out of sync.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the current Internet Group Management Protocol (IGMP) data set exceeds the supported limit.
<b>Recommended Action</b>	Reduce the number of memberships defined in the fabric.

## FW Messages

### FW-1001

<b>Message</b>	<label>, value has changed(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the internal temperature of the switch has changed.
<b>Recommended Action</b>	Respond to this message as is appropriate to the particular policy of the end-user installation. To prevent recurring messages, disable the changed alarm for this threshold. If you receive a temperature-related message, check for an accompanying fan-related message and check fan performance. If all fans are functioning normally, check the climate control in your lab.

### FW-1002

<b>Message</b>	<Label>, is below low boundary (High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the internal temperature of the switch has fallen below the low boundary.
<b>Recommended Action</b>	Respond to this message as is appropriate to the particular policy of the end-user installation. Typically, low temperatures means that the fans and airflow of a switch are functioning normally.  Verify that the location temperature is within the operational range of the switch. Refer to the <i>Hardware Reference Manual</i> for the environmental temperature range of your switch.

### FW-1003

<b>Message</b>	<Label>, is above high boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the internal temperature of the switch has risen above the high boundary to a value that may damage the switch.
<b>Recommended Action</b>	This message generally appears when a fan fails. If so, a fan-failure message accompanies this message. Replace the fan.

## FW-1004

<b>Message</b>	<Label>, is between high and low boundaries(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the internal temperature of the switch has changed from a value outside of the acceptable range to a value within the acceptable range.
<b>Recommended Action</b>	Respond to this message as is appropriate to the particular policy of the end-user installation. If you receive a temperature-related message, check for an accompanying fan-related message and check fan performance. If all fans are functioning normally, check the climate control in your lab.

## FW-1005

<b>Message</b>	<Label>, value has changed(High=<High value>,Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the speed of the fan has changed. Fan problems typically contribute to temperature problems.
<b>Recommended Action</b>	No action is required. Respond to this message as is appropriate to the particular policy of the end-user installation. Consistently abnormal fan speeds generally indicate that the fan is malfunctioning.

## FW-1006

<b>Message</b>	<Label>, is below low boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the speed of the fan has fallen below the low boundary. Fan problems typically contribute to temperature problems.
<b>Recommended Action</b>	Consistently abnormal fan speeds generally indicate that the fan is failing. Replace the fan.

## FW-1007

<b>Message</b>	<Label>, is above high boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the speed of the fan has risen above the high boundary. Fan problems typically contribute to temperature problems.
<b>Recommended Action</b>	Consistently abnormal fan speeds generally indicate that the fan is failing. Replace the fan.

## FW-1008

<b>Message</b>	<Label>, is between high and low boundaries(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the speed of the fan has changed from a value outside of the acceptable range to a value within the acceptable range. Fan problems typically contribute to temperature problems.
<b>Recommended Action</b>	No action is required. Consistently abnormal fan speeds generally indicate that the fan is failing. If this message occurs repeatedly, replace the fan.

## FW-1009

<b>Message</b>	<Label>, value has changed(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the state of the power supply has changed from faulty to functional or from functional to faulty.
<b>Recommended Action</b>	If the power supply is functioning correctly, no action is required. If the power supply is functioning below the acceptable boundary, verify that it is seated correctly in the chassis. Execute the <b>show environment power</b> command to view the status of the power supply. If the power supply continues to be a problem, replace the faulty power supply.

## FW-1010

<b>Message</b>	<Label>, is below low boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the power supply is faulty. The power supply is not producing enough power.
<b>Recommended Action</b>	Verify that the power supply is installed correctly and that it is correctly seated in the chassis. If the problem persists, replace the faulty power supply.

## FW-1012

<b>Message</b>	<Label>, is between high and low boundaries(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the power supply counter changed from a value outside of the acceptable range to a value within the acceptable range.
<b>Recommended Action</b>	No action is required. Respond to this message as is appropriate to the particular policy of the end-user installation.

## FW-1034

<b>Message</b>	<Label>, is below low boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the temperature of the small form-factor pluggable (SFP) transceiver has fallen below the low boundary.
<b>Recommended Action</b>	No action is required. Respond to this message as is appropriate to the particular policy of the end-user installation.



## FW-1035

<b>Message</b>	<Label>, is above high boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the temperature of the small form-factor pluggable (SFP) transceiver has risen above the high boundary.
<b>Recommended Action</b>	Frequent fluctuations in temperature may indicate a deteriorating SFP transceiver. Replace the SFP transceiver.

## FW-1036

<b>Message</b>	<Label>, is between high and low boundaries(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the temperature of the small form-factor pluggable (SFP) transceiver has changed from a value outside of the acceptable range to a value within the acceptable range.
<b>Recommended Action</b>	No action is required.

## FW-1038

<b>Message</b>	<Label>, is below low boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the receive power value of the small form-factor pluggable (SFP) transceiver has fallen below the low boundary. The receive performance area measures the amount of incoming laser to help you determine if the SFP transceiver is in good working condition or not. If the counter often exceeds the threshold, the SFP transceiver is deteriorating.
<b>Recommended Action</b>	Verify that the optical components are clean and functioning properly. Replace deteriorating cables or SFP transceivers. Check for damage from heat or age.

## FW-1039

<b>Message</b>	<Label>, is above high boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the receive power value of the small form-factor pluggable (SFP) transceiver has risen above the high boundary. The receive performance area measures the amount of incoming laser to help you determine if the SFP transceiver is in good working condition or not. If the counter often exceeds the threshold, the SFP transceiver is deteriorating.
<b>Recommended Action</b>	Replace the SFP transceiver before it deteriorates.

## FW-1040

<b>Message</b>	<Label>, is between high and low boundaries(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the receive power value of the small form-factor pluggable (SFP) transceiver has changed from a value outside of the acceptable range to a value within the acceptable range. The receive performance area measures the amount of incoming laser to help you determine if the SFP transceiver is in good working condition or not. If the counter often exceeds the threshold, the SFP transceiver is deteriorating.
<b>Recommended Action</b>	No action is required. Respond to this message as is appropriate to the particular policy of the end-user installation.

## FW-1042

<b>Message</b>	<Label>, is below low boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the transmit power value of the small form-factor pluggable (SFP) transceiver has fallen below the low boundary. The transmit performance area measures the amount of outgoing laser to help you determine if the SFP transceiver is in good working condition or not. If the counter often exceeds the threshold, the SFP transceiver is deteriorating.
<b>Recommended Action</b>	Verify that the optical components are clean and functioning properly. Replace deteriorating cables or SFP transceivers. Check for damage from heat or age.

## FW-1043

<b>Message</b>	<Label>, is above high boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the transmit power value of the small form-factor pluggable (SFP) transceiver has risen above the high boundary. The transmit performance area measures the amount of outgoing laser to help you determine if the SFP transceiver is in good working condition or not. If the counter often exceeds the threshold, the SFP transceiver is deteriorating.
<b>Recommended Action</b>	Replace the SFP transceiver.

## FW-1044

<b>Message</b>	<Label>, is between high and low boundaries(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the transmit power value of the small form-factor pluggable (SFP) transceiver has changed from a value outside of the acceptable range to a value within the acceptable range. The transmit performance area measures the amount of outgoing laser to help you determine if the SFP transceiver is in good working condition or not. If the counter often exceeds the threshold, the SFP transceiver is deteriorating.
<b>Recommended Action</b>	No action is required. Respond to this message as is appropriate to the particular policy of the end-user installation.

## FW-1046

<b>Message</b>	<Label>, is below low boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the value of the small form-factor pluggable (SFP) transceiver voltage has fallen below the low boundary.
<b>Recommended Action</b>	Verify that your optical components are clean and functioning properly. Replace deteriorating cables or SFP transceivers. Check for damage from heat or age.

## FW-1047

<b>Message</b>	<Label>, is above high boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the value of the small form-factor pluggable (SFP) transceiver voltage has risen above the high boundary.
<b>Recommended Action</b>	The supplied current of the SFP transceiver is outside of the normal range, indicating possible hardware failure. If the current rises above the high boundary, replace the SFP transceiver.

## FW-1048

<b>Message</b>	<Label>, is between high and low boundaries(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the value of the small form-factor pluggable (SFP) transceiver voltage has changed from a value outside of the acceptable range to a value within the acceptable range.
<b>Recommended Action</b>	No action is required. Respond to this message as is appropriate to the particular policy of the end-user installation.

## FW-1050

<b>Message</b>	<Label>, is below low boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the value of the small form-factor pluggable (SFP) transceiver voltage has fallen below the low boundary.
<b>Recommended Action</b>	Configure the low threshold to 1 so that the threshold triggers an alarm when the value falls to 0 (Out_of_Range). If continuous or repeated alarms occur, replace the SFP transceiver before it deteriorates.

## FW-1051

<b>Message</b>	<Label>, is above high boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the value of the small form-factor pluggable (SFP) transceiver voltage has risen above the high boundary. High voltages indicate possible hardware failures.
<b>Recommended Action</b>	Frequent voltage fluctuations are an indication that the SFP transceiver is deteriorating. Replace the SFP transceiver.

## FW-1052

<b>Message</b>	<Label>, is between high and low boundaries(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the value of the small form-factor pluggable (SFP) transceiver voltage has changed from a value outside of the acceptable range to a value within the acceptable range.
<b>Recommended Action</b>	No action is required. Respond to this message as is appropriate to the particular policy of the end-user installation.

## FW-1297

<b>Message</b>	<Label>, is below low boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the number of Telnet violations has fallen below the low boundary. Telnet violations indicate that a Telnet connection request has been received from an unauthorized IP address. The TELNET_POLICY contains a list of IP addresses that are authorized to establish Telnet connections to switches in the fabric.
<b>Recommended Action</b>	No action is required.

## FW-1298

<b>Message</b>	<Label>, is above high boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the number of Telnet violations has risen above the high boundary. Telnet violations indicate that a Telnet connection request has been received from an unauthorized IP address. The TELNET_POLICY contains a list of IP addresses that are authorized to establish Telnet connections to switches in the fabric.
<b>Recommended Action</b>	Execute the <b>show logging raslog</b> command to determine the IP address that sent the request. Responses to security-class messages depend on user policies. Consult your security administrator for response strategies and policies.

## FW-1299

<b>Message</b>	<Label>, is between high and low boundaries(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the number of Telnet violations has changed from a value outside of the acceptable range to a value within the acceptable range. Telnet violations indicate that a Telnet connection request has been received from an unauthorized IP address. The TELNET_POLICY contains a list of IP addresses that are authorized to establish Telnet connections to switches in the fabric.
<b>Recommended Action</b>	No action is required.

## FW-1341

<b>Message</b>	<Label>, is below low boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the number of login violations has fallen below the low boundary. Login violations indicate that a login failure has been detected.
<b>Recommended Action</b>	No action is required.

## FW-1342

<b>Message</b>	<Label>, is above high boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the number of login violations has risen above the high boundary. Login violations indicate that a login failure has been detected.
<b>Recommended Action</b>	Execute the <b>show logging raslog</b> command to determine the IP address of the log in attempt. Responses to security-class messages depend on user policies. Consult your security administrator for response strategies and policies.

## FW-1343

<b>Message</b>	<Label>, is between high and low boundaries(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the number of login violations has changed from a value outside of the acceptable range to a value within the acceptable range. Login violations indicate that a login failure has been detected.
<b>Recommended Action</b>	No action is required.

## FW-1403

<b>Message</b>	<Label>, is between high and low boundaries(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the CPU or memory usage is between the boundary limits.
<b>Recommended Action</b>	No action is required.

## FW-1404

<b>Message</b>	<Label>,is above high boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the CPU or memory usage is above the configured threshold. If this message pertains to memory usage, then the usage is above middle memory threshold.
<b>Recommended Action</b>	No action is required.

## FW-1405

<b>Message</b>	<Label>,is above high boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the memory usage is above low threshold.
<b>Recommended Action</b>	No action is required.

## FW-1406

<b>Message</b>	<Label>,is above high boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the memory usage is above the configured high threshold for memory usage.
<b>Recommended Action</b>	No action is required.



## FW-1407

<b>Message</b>	<Label>, is between high and low boundaries(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the memory usage is between the configured high and medium thresholds for memory usage.
<b>Recommended Action</b>	No action is required.

## FW-1408

<b>Message</b>	<Label>, is between high and low boundaries(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the memory usage is between the configured low and medium thresholds for memory usage.
<b>Recommended Action</b>	No action is required.

## FW-1424

<b>Message</b>	Switch status changed from <Previous state> to <Current state>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the switch is not in a healthy state. This occurred because of a policy violation.
<b>Recommended Action</b>	Execute the <b>show system monitor</b> command to determine the policy violation.

## FW-1425

<b>Message</b>	Switch status changed from <Bad state> to HEALTHY.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the switch status has changed to a healthy state. This state change occurred because a policy is no longer violated.
<b>Recommended Action</b>	No action is required.

## FW-1426

<b>Message</b>	Switch status change contributing factor Power supply: <Number Bad> bad, <Number Missing> absent.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the switch is not in a healthy state. This occurred because the number of faulty or missing power supplies is greater than or equal to the policy set by the <b>system-monitor</b> command.
<b>Recommended Action</b>	Replace the faulty or missing power supplies.

## FW-1427

<b>Message</b>	Switch status change contributing factor Power supply: <Number Bad> bad.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the switch is not in a healthy state. This occurred because the number of faulty power supplies is greater than or equal to the policy set by the <b>system-monitor</b> command.
<b>Recommended Action</b>	Replace the faulty power supplies.

## FW-1428

<b>Message</b>	Switch status change contributing factor Power supply: <Number Missing> absent.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the switch is not in a healthy state. This occurred because the number of missing power supplies is greater than or equal to the policy set by the <b>system-monitor</b> command.
<b>Recommended Action</b>	Replace the missing power supplies.

## FW-1429

<b>Message</b>	Switch status change contributing factor: Power supplies are not redundant.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the switch is not in a healthy state. This occurred because the power supplies are not in the correct slots for redundancy.
<b>Recommended Action</b>	Rearrange the power supplies so that one is in an odd slot and another in an even slot to make them redundant.

## FW-1430

<b>Message</b>	Switch status change contributing factor <string>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the switch is not in a healthy state. This occurred because the number of faulty temperature sensors is greater than or equal to the policy set by the <b>system-monitor</b> command. A temperature sensor is faulty when the sensor value is not in the acceptable range.
<b>Recommended Action</b>	Replace the field-replaceable unit (FRU) with the faulty temperature sensor.

## FW-1431

<b>Message</b>	Switch status change contributing factor Fan: <Number Bad> bad.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the switch is not in a healthy state. This occurred because the number of faulty fans is greater than or equal to the policy set by the <b>system-monitor</b> command. A fan is faulty when sensor value is not in the acceptable range.
<b>Recommended Action</b>	Replace the faulty or deteriorating fans.

## FW-1432

<b>Message</b>	Switch status change contributing factor Cid-Card: <Number Bad> bad.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the switch is not in a healthy state. This occurred because the number of faulty Chassis ID (CID) cards is greater than or equal to the policy set by the <b>system-monitor</b> command.
<b>Recommended Action</b>	Replace the faulty CID card.

## FW-1433

<b>Message</b>	Switch status change contributing factor MM: MM non-redundant (<CP Number>) faulty.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the switch is not in a healthy state. This occurred because the number of faulty management modules is greater than or equal to the policy set by the <b>system-monitor</b> command. The management modules are non-redundant.
<b>Recommended Action</b>	<p>Execute the <b>show firmware</b> command to verify if both the management modules have compatible firmware levels. Execute the <b>firmware download</b> command to install the same level of firmware to both management modules. Replace any faulty management modules.</p> <p>If you reset the micro-switch (the latch on the management module) on the active management module before the heartbeat was up on a power cycle, and the management modules came up non-redundant, reload the management modules again to clear the problem.</p>

## FW-1434

<b>Message</b>	Switch status change contributing factor LC: <Number Bad> LC failures (<LC Numbers>).
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the switch is not in a healthy state. This occurred because the number of line card (LC) failures is greater than or equal to the policy set by the <b>system-monitor</b> command.
<b>Recommended Action</b>	Replace the faulty LC.

## FW-1435

<b>Message</b>	Switch status change contributing factor Flash: usage out of range.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the switch is not in a healthy state. This occurred because the flash usage is out of range. The policy was set using the <b>system-monitor</b> command.
<b>Recommended Action</b>	Execute the <b>clear support</b> command to clear the kernel flash.

## FW-1439

<b>Message</b>	Switch status change contributing factor Switch offline.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the switch is not in a healthy state. This occurred because the switch is offline.
<b>Recommended Action</b>	Execute the <b>chassis enable</b> command to bring the switch online.

**FW-1440**

<b>Message</b>	<FRU label> state has changed to <FRU state>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the state of the specified field-replaceable unit (FRU) has changed to "absent".
<b>Recommended Action</b>	Verify if the event was planned. If the event was planned, no action is required. If the event was not planned, check with your system administrator on the hardware state change.

**FW-1441**

<b>Message</b>	<FRU label> state has changed to <FRU state>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the state of the specified field-replaceable unit (FRU) has changed to "inserted". This means that an FRU is inserted but not powered on.
<b>Recommended Action</b>	Verify if the event was planned. If the event was planned, no action is required. If the event was not planned, check with your system administrator on the hardware state change.

**FW-1442**

<b>Message</b>	<FRU label> state has changed to <FRU state>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the state of the specified field-replaceable unit (FRU) has changed to "on".
<b>Recommended Action</b>	Verify if the event was planned. If the event was planned, no action is required. If the event was not planned, check with your system administrator on the hardware state change.

**FW-1443**

<b>Message</b>	<FRU label> state has changed to <FRU state>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the state of the specified field-replaceable unit (FRU) has changed to "off".

**Recommended Action** Verify if the event was planned. If the event was planned, no action is required. If the event was not planned, check with your system administrator on the hardware state change.

## FW-1444

**Message** <FRU label> state has changed to <FRU state>.

**Message Type** LOG

**Severity** WARNING

**Probable Cause** Indicates that the state of the specified field-replaceable unit (FRU) has changed to "faulty".

**Recommended Action** Replace the FRU.

## FW-1447

**Message** Switch status change contributing factor SFM: <Number Bad> SFM failures (<Switch State>).

**Message Type** LOG

**Severity** WARNING

**Probable Cause** Indicates that the switch is not in a healthy state. This occurred because the number of switch fabric module (SFM) failures is greater than or equal to the policy set by the **system-monitor** command.

**Recommended Action** Replace the faulty SFM.

## FW-1500

**Message** Mail overflow - Alerts being discarded.

**Message Type** LOG

**Severity** WARNING

**Probable Cause** Indicates that a mail alert overflow condition has occurred.

**Recommended Action** Resolve or disable the mail alert using the **system-monitor-mail fru** command.

## FW-1501

<b>Message</b>	Mail overflow cleared - <Mails discarded> alerts discarded.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the mail overflow condition has cleared.
<b>Recommended Action</b>	No action is required.

## FW-1510

<b>Message</b>	<Area string> threshold exceeded: Port <Port number> disabled.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	<p>Indicates that the specified port is now disabled because the link on this port had multiple link failures that exceed Fabric Watch (FW) threshold on the port. The link failures occurred due to one of following reasons:</p> <ul style="list-style-type: none"> <li>• Physical and hardware problems on the switch.</li> <li>• Loss of synchronization.</li> <li>• Hardware failures.</li> <li>• A defective small form-factor pluggable (SFP) transceiver or faulty cable.</li> </ul> <p>Protocol errors indicates cyclic redundancy check (CRC) sum disparity. Occasionally, these errors occur due to software glitches. Persistent errors occur due to hardware problems.</p>
<b>Recommended Action</b>	Check for concurrent loss of synchronization errors. Check the SFP transceiver and the cable and enable the port using the <b>no shutdown</b> command.

## FW-3101

<b>Message</b>	<Label>, is below low boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the number of invalid cyclic redundancy checks (CRCs) that the port experiences has fallen below the low boundary.
<b>Recommended Action</b>	No action is required. Respond to this message as is appropriate to the particular policy of the end-user installation. A low number of invalid CRCs means the switch is functioning normally.



## FW-3102

<b>Message</b>	<Label>, is above high boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the number of invalid cyclic redundancy checks (CRCs) that the port experiences has risen above the high boundary.
<b>Recommended Action</b>	This error generally indicates an deteriorating fabric hardware. Check small form-factor pluggable (SFP) transceivers, cables, and connections for faulty hardware. Verify that all optical hardware is clean.

## FW-3103

<b>Message</b>	<Label>, is between high and low boundaries(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the number of invalid cyclic redundancy checks (CRCs) that the port experiences has changed from a value outside of the acceptable range to a value within the acceptable range.
<b>Recommended Action</b>	Respond to this message as is appropriate to the particular policy of the end-user installation. Frequent fluctuations in CRC errors generally indicate an aging fabric. Check the small form-factor pluggable (SFP) transceivers, cables, and connections for faulty hardware. Verify that all optical hardware is clean.

## FW-3104

<b>Message</b>	<Label>, has crossed lower threshold boundary to in between(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the number of invalid cyclic redundancy checks (CRCs) that the port experiences crossed lower threshold boundary to a value within the acceptable range.
<b>Recommended Action</b>	Respond to this message as is appropriate to the particular policy of the end-user installation. Frequent fluctuations in CRC errors generally indicate an aging fabric. Check small form-factor pluggable (SFP) transceivers, cables, and connections for faulty hardware. Verify that all optical hardware is clean.

## FW-3105

<b>Message</b>	<Label>, has dropped below upper threshold boundary to in between(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the number of invalid cyclic redundancy checks (CRCs) that the port experiences has dropped below upper threshold boundary to a value within the acceptable range.
<b>Recommended Action</b>	Respond to this message as is appropriate to the particular policy of the end-user installation. Frequent fluctuations in CRC errors generally indicate an aging fabric. Check small form-factor pluggable (SFP) transceivers, cables, and connections for faulty hardware. Verify that all optical hardware is clean.

## FW-3107

<b>Message</b>	<Label>, is below low boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the number of Abnormal Frame termination frames that the port experiences has fallen below the low boundary.
<b>Recommended Action</b>	No action is required. Respond to this message as is appropriate to the particular policy of the end-user installation. A low number of abnormal frame termination errors means the system is operating normally.

## FW-3108

<b>Message</b>	<Label>, is above high boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the number of abnormal frame termination frames that the port experiences has risen above the high boundary. Flapping interfaces during the traffic flow can generate this error.
<b>Recommended Action</b>	Check all loose connections in the fabric.

## FW-3109

<b>Message</b>	<Label>, is between high and low boundaries(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the number of abnormal frame termination frames that the port experiences has changed from a value outside of the acceptable range to a value within the acceptable range.
<b>Recommended Action</b>	Respond to this message as is appropriate to the particular policy of the end-user installation. Check all loose connections in the fabric.

## FW-3110

<b>Message</b>	<Label>, has crossed lower threshold boundary to in between(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the number of abnormal frame termination frames that the port experiences crossed lower threshold boundary to a value within the acceptable range.
<b>Recommended Action</b>	Respond to this message as is appropriate to the particular policy of the end-user installation. Check all loose connections in the fabric.

## FW-3111

<b>Message</b>	<Label>, has dropped below upper threshold boundary to in between(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the number of abnormal frame termination frames that the port experiences has dropped below upper threshold boundary to a value within the acceptable range.
<b>Recommended Action</b>	Respond to this message as is appropriate to the particular policy of the end-user installation. Check all loose connections in the fabric.

## FW-3113

<b>Message</b>	<Label>, is below low boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the number of frames with symbol error that the port experiences has fallen below the low boundary.
<b>Recommended Action</b>	Respond to this message as is appropriate to the particular policy of the end-user installation. A low number of symbol errors means the system is operating normally.

## FW-3114

<b>Message</b>	<Label>, is above high boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the number of frames with symbol error that the port experiences has risen above the high boundary. Flapping interfaces or loose connections can cause this error.  A high number of symbol errors indicate a deteriorated device, cable, or hardware.
<b>Recommended Action</b>	Check your small form-factor pluggables (SFPs), cables, and connections for faulty hardware. Verify that all optical hardware is clean.

## FW-3115

<b>Message</b>	<Label>, is between high and low boundaries(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the number of frames with symbol error that the port experiences has changed from a value outside of the acceptable range to a value within the acceptable range.
<b>Recommended Action</b>	Respond to this message as is appropriate to the particular policy of the end-user installation. Check all cables and form factors in the system.

## FW-3116

<b>Message</b>	<Label>, has crossed lower threshold boundary to in between(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the number of frames with symbol error that the port experiences crossed lower threshold boundary to a value within the acceptable range.
<b>Recommended Action</b>	Respond to this message as is appropriate to the particular policy of the end-user installation. Check all cables and form factors in the system.

## FW-3117

<b>Message</b>	<Label>, has dropped below upper threshold boundary to in between(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the number of frames with symbol error that the port experiences has dropped below upper threshold boundary to a value within the acceptable range.
<b>Recommended Action</b>	Respond to this message as is appropriate to the particular policy of the end-user installation. Check all cables and form factors in the system.

## FW-3119

<b>Message</b>	<Label>, is below low boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the number of inter frame gap violation errors that the port experiences has fallen below the low boundary.
<b>Recommended Action</b>	Respond to this message as is appropriate to the particular policy of the end-user installation. A low number of inter frame gap errors means the system is operating normally.

## FW-3120

<b>Message</b>	<Label>, is above high boundary(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the number of inter frame gap violation errors that the port experiences has risen above the high boundary. Flapping interfaces during the traffic flow can generate this error. Congestion or transmitting multiple frames without an inter frame gap.
<b>Recommended Action</b>	Check loose connections and congestion in the fabric.

## FW-3121

<b>Message</b>	<Label>, is between high and low boundaries(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the number of inter frame gap violation errors that the port experiences has changed from a value outside of the acceptable range to a value within the acceptable range.
<b>Recommended Action</b>	Respond to this message as is appropriate to the particular policy of the end-user installation. Check loose connections and congestion in the fabric.

## FW-3122

<b>Message</b>	<Label>, has crossed lower threshold boundary to in between(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the number of inter frame gap violation errors that the port experiences crossed lower threshold boundary to a value within the acceptable range.
<b>Recommended Action</b>	Respond to this message as is appropriate to the particular policy of the end-user installation. Check loose connections and congestion in the fabric.

## FW-3123

<b>Message</b>	<Label>, has dropped below upper threshold boundary to in between(High=<High value>, Low=<Low value>). Current value is <Value> <Unit>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the number of inter frame gap violation errors that the port experiences has dropped below upper threshold boundary to a value within the acceptable range.
<b>Recommended Action</b>	Respond to this message as is appropriate to the particular policy of the end-user installation. Check loose connections and congestion in the fabric.

## HASM Messages

### HASM-1000

<b>Message</b>	Component <Component name> terminated. System initiated reload/failover for recovery.
<b>Message Type</b>	LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the software watchdog detected termination of a daemon and the system will reload or failover to recover.
<b>Recommended Action</b>	After the system reloads, execute the <b>copy support</b> command and contact your switch service provider.

### HASM-1001

<b>Message</b>	Non-restartable component <Component name> terminated. System initiated reload/failover for recovery.
<b>Message Type</b>	LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the software watchdog detected termination of a daemon and the system will reload or failover to recover.
<b>Recommended Action</b>	After the system reloads, execute the <b>copy support</b> command and contact your switch service provider.

### HASM-1002

<b>Message</b>	Error happens on service instance <Service type name> <Service instance name>: <Error message> (Critical).
<b>Message Type</b>	LOG   FFDC
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates software failure.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and reload the system manually to recover.



## HASM-1003

<b>Message</b>	Error happened on service instance <Service type name> <Service instance name>: <Error message>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates a software error such as mismatch in the fabric synchronization service (FSS) configuration.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and reload the system manually to recover.

## HASM-1004

<b>Message</b>	Processor reloaded - <Reboot Reason>.
<b>Message Type</b>	AUDIT   LOG
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	<p>Indicates that the system has been reloaded either because of a user action or an error. The switch reload can be initiated by one of the following commands: <b>firmware download</b>, <b>fastboot</b>, <b>ha failover</b>, and <b>reload</b>. Some examples of errors that may initiate this message are hardware errors, software errors, compact flash (CF) errors, or memory errors. The reason for reload can be any of the following:</p> <ul style="list-style-type: none"> <li>• Hafailover</li> <li>• Reset</li> <li>• Fastboot</li> <li>• Giveup Master:SYSM</li> <li>• CP Faulty:SYSM</li> <li>• FirmwareDownload</li> <li>• ConfigDownload:MS</li> <li>• ChangeWWN:EM</li> <li>• Reboot:WebTool</li> <li>• Fastboot:WebTool</li> <li>• Software Fault:Software Watchdog</li> <li>• Software Fault:Kernel Panic</li> <li>• Software Fault:ASSERT</li> <li>• Reboot:SNMP</li> <li>• Fastboot:SNMP</li> <li>• Reboot</li> <li>• Chassis Config</li> <li>• Reload:API</li> <li>• Reload:HAM</li> <li>• EMFault:EM</li> </ul>

<b>Recommended Action</b>	Check the error log on both management modules for additional messages that may indicate the reason for the switch reload.
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## HASM-1013

<b>Message</b>	Restartable daemon (<Component name>) terminated prematurely. System initiated failover/reload for recovery.
<b>Message Type</b>	LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that a restartable daemon terminated before the system has booted up completely.
<b>Recommended Action</b>	After the system reloads, execute the <b>copy support</b> command and contact your switch service provider.

## HASM-1014

<b>Message</b>	Restartable daemon (<Component name>) terminated while the system was booting up.
<b>Message Type</b>	LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that a restartable daemon terminated before the system has booted up completely.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and reload the system manually to recover.

## HASM-1015

<b>Message</b>	Error happens on service instance <Service type name> <Service instance name>: <Error message> (Critical, reboot to recover).
<b>Message Type</b>	LOG   FFDC
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates software failure.
<b>Recommended Action</b>	Execute the <b>copy support</b> command after the system boots up.

## HASM-1019

<b>Message</b>	Firmware operation (<operation code>) was aborted due to disconnection of the peer node.
<b>Message Type</b>	LOG   VCS
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the peer node has been reloaded or disconnected due to a software error.
<b>Recommended Action</b>	No action is required. Firmware commit will be started automatically to repair the compact flash (CF) partitions in the system.

## HASM-1020

<b>Message</b>	Firmware operation (<operation code>) was aborted due to timeout.
<b>Message Type</b>	LOG   FFDC   VCS
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the firmware operation took too long to complete due to CPU overload or other software errors.
<b>Recommended Action</b>	No action is required. Firmware commit will be started automatically to repair the compact flash (CF) partitions in the system.

## HASM-1021

<b>Message</b>	Firmware operation (<operation code>) was aborted manually.
<b>Message Type</b>	LOG   VCS
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the specified firmware operation was aborted manually.
<b>Recommended Action</b>	No action is required.

## HASM-1022

<b>Message</b>	Failed to fork firmware child process.
<b>Message Type</b>	LOG   VCS
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the firmware operation could not be started due to a software error.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

## HASM-1023

<b>Message</b>	There is no HA connection between the MMs due to firmware incompatibility.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the firmware in the management modules are not compatible.
<b>Recommended Action</b>	Upgrade the firmware on the standby management module to be the same as the active management module.

## HASM-1024

<b>Message</b>	Firmware is not available at <Firmware path on MM> on MM.
<b>Message Type</b>	LOG   VCS
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the firmware for the line card (LC) is not available in the management module compact flash (CF) card. This event can be due to firmware corruption.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

## HASM-1025

<b>Message</b>	HA is disconnected between the MMs due to incompatible features.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that a feature is enabled and it is not compatible with the firmware running on the standby management module.
<b>Recommended Action</b>	Upgrade the firmware on the standby management module to be the same as the active management module before enabling the feature.

## HASM-1026

<b>Message</b>	The last reboot is due to Kernel Panic in <Module name>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the system has reloaded due to kernel panic in the specified module.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

## HASM-1100

<b>Message</b>	HA State is in sync.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the high availability (HA) state for the active management module is in synchronization with the HA state of the standby management module. If the standby management module is healthy, the failover will be nondisruptive.
<b>Recommended Action</b>	No action is required.

## HASM-1101

<b>Message</b>	HA State out of sync.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the high availability (HA) state for the active management module is out of synchronization with the HA state of the standby management module. If the active management module failover occurs when the HA state is out of sync, the failover is disruptive.
<b>Recommended Action</b>	<p>If this message was logged as a result of a user-initiated action, no action is required.</p> <p>Execute the <b>ha dump</b> command to diagnose the problem.</p> <p>If the problem persists, execute the <b>copy support</b> command and contact your switch service provider.</p>

## HASM-1102

<b>Message</b>	Heartbeat misses to <slot/partition> reached threshold.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that either the active management module Ethernet Media Access Controller (EMAC) or the indicated interface module is down. The active management module will run a diagnostic test on the EMAC and will wait for the interface module to reset it if it is down.
<b>Recommended Action</b>	No action is required.

## HASM-1103

<b>Message</b>	Heartbeat to <slot/partition> down.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the active management module has detected that the indicated interface module is down. This event may happen as a result of one of the following conditions: an operator-initiated action such as <b>firmware download</b> , if the interface module is reset or removed, or an error occurred in the interface module.
<b>Recommended Action</b>	<p>Monitor the interface module for a few minutes. If this message is due to reloading of the interface module, a message indicating heartbeat up will be displayed after the interface module has reloaded successfully.</p> <p>If the interface module does not successfully connect to the active management module after 10 minutes, reload the interface module by ejecting the interface module and reseating it.</p>

## HASM-1104

<b>Message</b>	Heartbeat to <slot/partition> up.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the active management module has detected that the specified interface module is up. This message indicates that the interface module is ready to start up services and it is typically displayed when the interface module boots up.
<b>Recommended Action</b>	No action is required. This message indicates that the interface module is healthy.

## HASM-1105

<b>Message</b>	Switch bring-up timed out.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the system timed out during a reload or failover sequence, waiting for one or more programs to register with system services or to fail over to active status.
<b>Recommended Action</b>	If the switch is in an inconsistent state, reload or power cycle the chassis. Before reloading the chassis, record the firmware version on the switch or management module and execute the <b>ha dump</b> command. If this is a dual-management module switch, gather the output from the management module in which this log message appeared.

## HASM-1106

<b>Message</b>	Reset the standby management module.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the standby management module is being reset due to loss of heartbeat. This message is typically seen when the standby management module has been reloaded. Note that in certain circumstances a management module may experience a double reset and reload twice. A management module can recover automatically even if it has reloaded twice.
<b>Recommended Action</b>	No action is required.

**HASM-1107**

<b>Message</b>	Take over the active management module.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a failover occurred and the standby management module takes over the active management module.
<b>Recommended Action</b>	No action is required.

**HASM-1108**

<b>Message</b>	All service instances become active.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that all service instances became active. Active is an intermediate stage in the boot process.
<b>Recommended Action</b>	No action is required.

**HASM-1109**

<b>Message</b>	The system is ready for configuration replay.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that all line cards (LCs) are online and the system is ready for configuration replay.
<b>Recommended Action</b>	No action is required.

**HASM-1110**

<b>Message</b>	Configuration replay has completed on the system.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that configuration replay has completed.



**Recommended Action** No action is required.

## HASM-1111

**Message** Configuration replay has completed on <slot/partition>.

**Message Type** LOG

**Severity** INFO

**Probable Cause** Indicates that configuration replay has completed on the specified slot or partition.

**Recommended Action** No action is required.

## HASM-1112

**Message** <FC or MC> mode on standby, mismatch with active.

**Message Type** FFDC | LOG

**Severity** CRITICAL

**Probable Cause** Indicates that fabric cluster (FC) or management cluster (MC) mode conversion did not synchronize to the standby management module.

**Recommended Action** No action is required.

## HASM-1120

**Message** Current version <firmware version string>.

**Message Type** LOG | VCS

**Severity** INFO

**Probable Cause** Indicates the current firmware version string.

**Recommended Action** No action is required.

## HASM-1121

<b>Message</b>	New version <firmware version string>.
<b>Message Type</b>	LOG   VCS
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates the new firmware version string after firmware download.
<b>Recommended Action</b>	No action is required.

## HASM-1130

<b>Message</b>	The Ethernet PHY for slot <slot/partition> was reset successfully.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that there was no Ethernet connection between the active management module and the specified line card (LC). Subsequently, the PHY in the LC was reset automatically and the connection has been recovered.
<b>Recommended Action</b>	No action is required.

## HASM-1131

<b>Message</b>	reset the Ethernet PHY for slot <slot/partition> (<error code>).
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that there was no Ethernet connection between the active management module and the specified line card (LC). The active management module attempted to recover the connection by resetting the PHY in the LC but failed.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

## HASM-1132

<b>Message</b>	Reset the Ethernet PHY for slot <slot/partition> (<reset return code>) on standby.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that there was no Ethernet connection between the standby management module and the specified line card (LC). The standby management module attempted to recover the connection by resetting the PHY in the LC.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

## HASM-1200

<b>Message</b>	Detected termination of process <Software component>:<Software component Process ID>.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that a process on the switch has ended unexpectedly.
<b>Recommended Action</b>	Copy the warning message along with any core file information and contact your switch service provider.

## HASM-1201

<b>Message</b>	<Software component>:<Software component Process ID> failed to refresh (<Current time>:<Refresh time>).
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that one of the daemons is found to be unresponsive. An abort signal is sent.
<b>Recommended Action</b>	Copy the warning message along with any core file information and contact your switch service provider.

## HAWK Messages

### HAWK-1002

<b>Message</b>	Port <port number> chip faulted due to internal error.
<b>Message Type</b>	LOG   FFDC
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates an internal error. All the ports on the interface module or switch will be disrupted.
<b>Recommended Action</b>	<p>For a modular switch, execute the <b>power-off</b> and <b>power-on</b> commands to power cycle the interface module.</p> <p>For a compact switch, reload or power cycle the switch.</p>

# HIL Messages

## HIL-1202

<b>Message</b>	Blower <blower number> faulted, speed (<measured speed> RPM) below threshold.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified fan speed (in RPMs) has fallen below the minimum threshold.
<b>Recommended Action</b>	Replace the fan field-replaceable unit (FRU). Refer to the <i>Hardware Reference Manual</i> of your switch for instructions to replace the fan FRU.

## HIL-1301

<b>Message</b>	A blower failed or missing. Replace failed or missing blower assembly immediately.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that a fan field-replaceable unit (FRU) has failed or has been removed. This message is often preceded by a low speed error message. This problem may overheat the switch.
<b>Recommended Action</b>	Replace the affected fan FRU immediately. Refer to the <i>Hardware Reference Manual</i> of your switch for instructions to replace the fan FRU.

## HIL-1302

<b>Message</b>	<count> blowers failed or missing. Replace failed or missing blower assemblies immediately.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that multiple fan field-replaceable units (FRUs) have failed or are missing on the switch. This message is often preceded by a low fan speed message.
<b>Recommended Action</b>	Replace the affected fan FRUs immediately. Refer to the <i>Hardware Reference Manual</i> of your switch for instructions to replace the fan FRU.

## HIL-1404

<b>Message</b>	<count> fan FRUs missing. Install fan FRUs immediately.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that one or more fan field-replaceable units (FRUs) have been removed.
<b>Recommended Action</b>	Install the missing fan FRUs immediately.

## HIL-1505

<b>Message</b>	High temperature (<measured temperature> C), fan speed increasing per environmental specifications.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that temperature in the system has risen above the warning threshold and the fan speed has been increased to prevent overheating of the system.
<b>Recommended Action</b>	Execute the <b>show environment fan</b> command to verify that all fans are working properly. Make sure that the area is well ventilated and the room temperature is within operational range of your switch. Refer to the <i>Hardware Reference Manual</i> of your switch for the operational temperature range.

## HIL-1506

<b>Message</b>	High temperature (<measured temperature> C) exceeds system temperature limit. System will shut down within 2 minutes.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that temperature in the system has risen above the critical threshold.
<b>Recommended Action</b>	Execute the <b>show environment fan</b> command to verify that all fans are working properly. Replace any deteriorating fan field-replaceable units (FRUs). Make sure that the area is well ventilated and the room temperature is within operational range of your switch. Refer to the <i>Hardware Reference Manual</i> of your switch for the operational temperature range.

## HIL-1510

<b>Message</b>	Current temperature (<measured temperature> C) is below shutdown threshold. System shut down cancelled.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that temperature in the system has dropped below the critical threshold; the system will continue operation.
<b>Recommended Action</b>	<p>To help prevent future problems, execute the <b>show environment fan</b> command to verify all fans are working properly.</p> <p>Make sure that the area is well ventilated and the room temperature is within operational range of your switch. Refer to the <i>Hardware Reference Manual</i> of your switch for the operational temperature range.</p>

## HIL-1511

<b>Message</b>	MISMATCH in Fan airflow direction. Replace FRU with fan airflow in same direction.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the airflow of the fan is in the reverse direction. This may heat up the system.
<b>Recommended Action</b>	Replace the fan field-replaceable units (FRUs) in such a manner that the air flows in the same direction as the remaining fans. Refer to the <i>Hardware Reference Manual</i> of your switch for instructions to replace the fan FRUs.

## HIL-1512

<b>Message</b>	MISMATCH in PSU-Fan FRUs airflow direction. Replace PSU with fan airflow in same direction.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the airflow of the power supply unit (PSU) fan is in the reverse direction. This may heat up the system.
<b>Recommended Action</b>	Replace the PSU fan field-replaceable unit (FRU) in such a manner that the air flows in the same direction as the remaining fans. Refer to the <i>Hardware Reference Manual</i> of your switch for instructions to replace the PSU fan FRU.

## HIL-1521

<b>Message</b>	<Slot Identifier>, high temperature (<measured temperature>).
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the temperature of the specified interface module has risen above the warning threshold.
<b>Recommended Action</b>	Execute the <b>show environment fan</b> command to verify that all fans are working properly. Make sure that the area is well ventilated and that the room temperature is within operational range of your switch. Refer to the <i>Hardware Reference Manual</i> of your switch for the operational temperature range.

## HIL-1522

<b>Message</b>	<Slot Identifier>, high temperature (<measured temperature>). Unit will be shut down in 2 minutes if temperature remains high.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the temperature of the specified interface module has risen above the critical threshold. This usually follows a high temperature message.
<b>Recommended Action</b>	Execute the <b>show environment fan</b> command to verify that all fans are working properly. Make sure that the area is well ventilated and the room temperature is within operational range of your switch. Refer to the <i>Hardware Reference Manual</i> of your switch for the operational temperature range. If the message persists, replace the interface module.

## HIL-1523

<b>Message</b>	<Slot Identifier>, unit shutting down.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the temperature of the specified interface module was above the maximum threshold for at least two minutes and therefore it has been shut down to prevent damage. This message usually follows a high temperature warning message.
<b>Recommended Action</b>	Execute the <b>show environment fan</b> command to verify that all fans are working properly. Make sure that the area is well ventilated and the room temperature is within the operational range of your switch. Refer to the <i>Hardware Reference Manual</i> of your switch for the operational temperature range. If the message persists, replace the faulty interface module.



## HIL-1524

<b>Message</b>	<Slot Identifier> is below shutdown threshold. Blade shut down cancelled.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the temperature of the specified interface module has dropped below the critical threshold; the system will continue operation.
<b>Recommended Action</b>	<p>To help prevent future problems, execute the <b>show environment fan</b> command to verify that all fans are working properly.</p> <p>Make sure that the area is well ventilated and the room temperature is within operational range of your switch. Refer to the <i>Hardware Reference Manual</i> of your switch for the operational temperature range.</p>

## HIL-1605

<b>Message</b>	High temperature (<measured temperature> C), fan speed increasing per environmental specifications.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that temperature in the system has risen above the threshold and therefore the fan speed has been increased to prevent overheating of the system.
<b>Recommended Action</b>	No action is required.

## HLO Messages

### HLO-1001

<b>Message</b>	Incompatible Inactivity timeout <dead timeout> from port <port number>, correct value <value>.
<b>Message Type</b>	LOG   FFDC
<b>Severity</b>	ERROR
<b>Probable Cause</b>	<p>Indicates that the hello (HLO) message was incompatible with the value specified in the fabric shortest path first (FSPF) protocol. The Brocade switch will not accept FSPF frames from the remote switch.</p> <p>In the Network OS, the HLO dead timeout value is not configurable, so this error can only occur when the Brocade switch is connected to a switch from another manufacturer.</p>
<b>Recommended Action</b>	The dead timeout value of the remote switch must be compatible with the value specified in the FSPF protocol. Refer to the documentation for the other manufacturer's switch to change this value.

### HLO-1002

<b>Message</b>	Incompatible Hello timeout <HLO timeout> from port <port number>, correct value <correct value>.
<b>Message Type</b>	LOG   FFDC
<b>Severity</b>	ERROR
<b>Probable Cause</b>	<p>Indicates that the hello (HLO) message was incompatible with the value specified in the fabric shortest path first (FSPF) protocol. The Brocade switch will not accept FSPF frames from the remote switch.</p> <p>In the Network OS, the HLO timeout value is not configurable, so this error can only occur when the Brocade switch is connected to a switch from another manufacturer.</p>
<b>Recommended Action</b>	The HLO timeout value of the remote switch must be compatible with the value specified in the FSPF protocol. Refer to the documentation for the other manufacturer's switch to change this value.

## HLO-1003

<b>Message</b>	Invalid Hello received from port <port number>, RBridge = <rBridge ID>, Remote Port = <remote port ID>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	<p>Indicates that the hello (HLO) message received was invalid and the frame was dropped. The Brocade switch will not accept fabric shortest path first (FSPF) frames from the remote switch.</p> <p>The switch has received an invalid HLO because either the RBridge or port number in the HLO message has an invalid value. This error can only occur when the Brocade switch is connected to a switch from another manufacturer.</p>
<b>Recommended Action</b>	The HLO message of the remote switch must be compatible with the value specified in the FSPF protocol. Refer to the documentation for the other manufacturer's switch to change this value.

## HSL Messages

### HSL-1000

<b>Message</b>	HSL initialization failed.
<b>Message Type</b>	LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates a hardware subsystem layer (HSL) initialization failure. This error is caused by other system errors.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

### HSL-1001

<b>Message</b>	Failed to acquire the system MAC address pool.
<b>Message Type</b>	LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates the failure to acquire the system address. This error is caused by other system errors.
<b>Recommended Action</b>	Execute the <b>show logging raslog</b> command to view the error log for other system errors and correct the errors.

### HSL-1004

<b>Message</b>	Incompatible SFP transceiver for interface <InterfaceName> is detected.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that an incompatible small form-factor pluggable (SFP) transceiver for the interface has been inserted.
<b>Recommended Action</b>	Disable the interface using the <b>shutdown</b> command and insert an SFP transceiver that is supported on the interface. After the SFP transceiver is inserted, re-enable the interface using the <b>no shutdown</b> command.

## HSL-1006

<b>Message</b>	Failed to get the kernel page size <PageSize> bytes for the Memory Map (MMap).
<b>Message Type</b>	LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that there is not enough contiguous kernel memory.
<b>Recommended Action</b>	Execute the <b>show logging raslog</b> command to view the error log for other system errors and correct the errors.

## HSL-1009

<b>Message</b>	Failed to create Brocade trunk interface <InterfaceName>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates failure to create Brocade trunk because the hardware resources are exhausted.
<b>Recommended Action</b>	Do not exceed the maximum trunk configuration allowed by the system.

## IGMP Messages

### IGMP-1001

<b>Message</b>	<code>MsgQ enqueue failed (rc: &lt;rc&gt;).</code>
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates an internal inter-process communication (IPC) failure due to the scalability scenario.
<b>Recommended Action</b>	Reduce the number of groups and MRouter ports.

### IGMP-1002

<b>Message</b>	<code>IPC with McastSS failed (message-id: &lt;message-id&gt;, rc: &lt;rc&gt;).</code>
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates an internal inter-process communication (IPC) failure due to the scalability scenario.
<b>Recommended Action</b>	Reduce the number of groups and MRouter ports.

### IGMP-1003

<b>Message</b>	<code>MRouter eNS update from a VCS RBridge (ID:&lt;rbrid&gt;) running lower firmware version.</code>
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates an older message update.
<b>Recommended Action</b>	Upgrade the VCS RBridge firmware to the latest build.

## IGMP-1004

<b>Message</b>	IGMP maximum VLANs enabled. Cannot enable IGMP on <vlan>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the number of VLANs on which Internet Group Multicast Protocol (IGMP) can be enabled has reached the maximum limit. Therefore, IGMP cannot be enabled on the specified VLAN.
<b>Recommended Action</b>	No action is required.

## IGMP-1005

<b>Message</b>	IGMP snooping enabled on total <vlan> VLANs. Maximum limit reached.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the number of VLANs on which Internet Group Multicast Protocol (IGMP) can be enabled has reached the maximum limit.
<b>Recommended Action</b>	No action is required.

## IGMP-1006

<b>Message</b>	IGMP snooping enabled on <vlan>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that Internet Group Multicast Protocol (IGMP) is enabled on the specified VLAN.
<b>Recommended Action</b>	No action is required.

## IPAD Messages

### IPAD-1000

<b>Message</b>	IP Config change: Entity:<Type of managed entity>/<Instance number of managed entity> Interface:<Type of network interface>/<Instance number of network interface> Adresss family:<Protocol address family> Source of change:<Source of address change> Address:<Value of address and prefix> DHCP:<DHCP enabled or not>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the local IP address has been changed manually or it was reconfigured automatically by the Dynamic Host Configuration Protocol (DHCP) server.
<b>Recommended Action</b>	No action is required.

### IPAD-1001

<b>Message</b>	<Type of managed entity>/<Instance number of managed entity> <Protocol address family> <Source of address change> <Value of address> DHCP <DHCP enabled or not>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the gateway IP address has been changed manually or it was reconfigured automatically by the Dynamic Host Configuration Protocol (DHCP) server.
<b>Recommended Action</b>	No action is required.

### IPAD-1002

<b>Message</b>	Switch name has been successfully changed to <Switch name>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the switch name has been changed.
<b>Recommended Action</b>	No action is required.



## IPAD-1003

<b>Message</b>	libipadm: <error message> <error message specific code>.
<b>Message Type</b>	LOG   FFDC
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the IP admin library has encountered an unexpected error.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

## IPAD-1004

<b>Message</b>	Unable to set the host name due to /etc/hosts file corruption.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the /etc/hosts file was inconsistent and it could not be recovered.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

## IPAD-1005

<b>Message</b>	The /etc/hosts file was inconsistent but has been recovered successfully.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the /etc/hosts file was inconsistent but it was recovered.
<b>Recommended Action</b>	No action is required.

## KTRC Messages

### KTRC-1001

<b>Message</b>	Dump memory size exceeds dump file size.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the dump memory size has exceeded the dump file size.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and reload the switch. If the problem persists, contact your switch service provider.

### KTRC-1002

<b>Message</b>	Concurrent trace dumping.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the initial background dump has not completed.
<b>Recommended Action</b>	No action is required.

### KTRC-1003

<b>Message</b>	Cannot open ATA dump device.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the advanced technology attachment (ATA) dump driver is not initialized properly.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and reload the switch. If the problem persists, contact your switch service provider.

## KTRC-1004

<b>Message</b>	Cannot write to ATA dump device.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the write boundary in the advanced technology attachment (ATA) dump device has been exceeded.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and reload the switch. If the problem persists, contact your switch service provider.

## KTRC-1005

<b>Message</b>	Trace initialization failed. <Reason initialization failed>. <Internal error code>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that trace was unable to initialize.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and reload the switch. If the problem persists, contact your switch service provider.

## L2AG Messages

### L2AG-1001

<b>Message</b>	Linux socket error - error reason: <reason>, socket name: <sockname>, error name <errorname>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that an error has occurred in the Linux socket.
<b>Recommended Action</b>	Reload or power cycle the switch.

### L2AG-1002

<b>Message</b>	Initialization error : <reason>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the Layer 2 Agent (L2AGT) has encountered an error during initialization.
<b>Recommended Action</b>	Reload or power cycle the switch.

### L2AG-1003

<b>Message</b>	Message Queue Error : Message queue create failed.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the Layer 2 Agent (L2AGT) has encountered system service manager (SSM) message queue errors.
<b>Recommended Action</b>	Reload or power cycle the switch.

## L2AG-1004

<b>Message</b>	FDB error: Error in creating AVL tree.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the Layer 2 Agent (L2AGT) has encountered an error while initializing the AVL tree.
<b>Recommended Action</b>	Reload or power cycle the switch.

## L2AG-1005

<b>Message</b>	MAC-address-table hash failed even after two attempts for slot <slot> chip <chip>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the media access control (MAC) address table hash failed even after two hash changes on the specified chip.
<b>Recommended Action</b>	Reload or power cycle the switch.

## L2AG-1006

<b>Message</b>	MAC-address-table on slot <Slot_id> chip <Chip_id> is 95 percent full.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the media access control (MAC) address table on the chip is 95 percent full.
<b>Recommended Action</b>	Clear some of the entries using the <b>clear mac-address-table dynamic</b> command or wait until the old entries age out.

## L2AG-1007

<b>Message</b>	MAC-address-table on slot <Slot_id> chip <Chip_id> is less than 90 percent full.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the media access control (MAC) address table is less than 90 percent full.

## 7 L2AG-1008

<b>Recommended Action</b>	No action is required. The Layer 2 Agent (L2AGT) will start learning the entries.
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### L2AG-1008

<b>Message</b>	MAC-address-table on slot <Slot_id> chip <Chip_id> is 95 percent full [Dynamic/Static MAC's: <fdb_count>; ACL MAC's: <Acl_count>].
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<b>Message Type</b>	DCE
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<b>Severity</b>	INFO
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<b>Probable Cause</b>	Indicates that the media access control (MAC) address table on the chip is 95 percent full.
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<b>Recommended Action</b>	Clear some of the entries using the <b>clear mac-address-table dynamic</b> command or wait until the old entries age out.
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### L2AG-1009

<b>Message</b>	L2 H/W tables have reached capacity. Few ACL/MAC entries may not be configured in H/W, resulting in flooding.
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<b>Message Type</b>	DCE
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<b>Severity</b>	INFO
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<b>Probable Cause</b>	Indicates that some of the Layer 2 hardware tables are full.
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<b>Recommended Action</b>	Clear some of the entries using the <b>clear mac-address-table dynamic</b> command or wait until the old entries age out.
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## L2SS Messages

### L2SS-1001

<b>Message</b>	Linux socket error - error reason: <reason>, socket name: <sockname>, error name <errorname>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that an error has occurred in the Linux socket.
<b>Recommended Action</b>	Reload or power cycle the switch.

### L2SS-1002

<b>Message</b>	Initialization error: <reason>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the Layer 2 system (L2SYS) has encountered an error during initialization.
<b>Recommended Action</b>	Reload or power cycle the switch.

### L2SS-1003

<b>Message</b>	Message Queue Error: Failed to create a Message Queue.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the Layer 2 system (L2SYS) has encountered system service manager (SSM) message queue errors.
<b>Recommended Action</b>	Reload or power cycle the switch.

## L2SS-1004

<b>Message</b>	FDB error: Error in creating the AVL tree.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the Layer 2 system (L2SYS) has encountered an error while initializing the AVL tree.
<b>Recommended Action</b>	Reload or power cycle the switch.

## L2SS-1005

<b>Message</b>	MAC-address-table hash failed even after two attempts for slot <slot> chip <chip>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the media access control (MAC) address table hash failed even after two hash changes on the specified chip.
<b>Recommended Action</b>	Reload or power cycle the switch.

## L2SS-1006

<b>Message</b>	MAC-address-table is 95 percent full.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the media access control (MAC) address table on the chip is 95 percent full.
<b>Recommended Action</b>	Clear some of the entries using the <b>clear mac-address-table dynamic</b> command or wait until the old entries age out.



## L2SS-1007

<b>Message</b>	MAC-address-table on slot <Slot_id> chip <Chip_id> is less than 90 percent full.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the media access control (MAC) address table on the specified chip is less than 90 percent full.
<b>Recommended Action</b>	No action is required. The Layer 2 system (L2SYS) will start learning the entries.

## L2SS-1008

<b>Message</b>	Adding Internal MAC <mac1>:<mac2>:<mac3>:<mac4>:<mac5>:<mac6> VID <Vid> as a static MAC.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a static media access control (MAC) is overriding an internal MAC entry (VRRP/SVI).
<b>Recommended Action</b>	No action is required.

## L2SS-1009

<b>Message</b>	Fabric-wide Layer 2 flush command issued.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a fabric-wide Layer 2 flush command is issued and the entire Layer 2 forwarding table will be cleared.
<b>Recommended Action</b>	No action is required.

## L2SS-1010

<b>Message</b>	Fabric-wide l2 flush completed, status - <command status>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the entire Layer 2 forwarding table has been cleared.
<b>Recommended Action</b>	No action is required.

## LACP Messages

### LACP-1001

<b>Message</b>	<code>&lt;module&gt; Error opening socket (&lt;error&gt;).</code>
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that initialization of the specified module within the Link Aggregation Control Protocol (LACP) daemon has failed.
<b>Recommended Action</b>	Download a new firmware version using the <b>firmware download</b> command.

### LACP-1002

<b>Message</b>	<code>&lt;message&gt; &lt;message&gt;.</code>
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that an error occurred in the Link Aggregation Control Protocol (LACP) daemon.
<b>Recommended Action</b>	Take action specific to the error message.

### LACP-1003

<b>Message</b>	<code>Port-channel &lt;PortChannelKey&gt; up in defaulted state.</code>
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified port channel is up in the defaulted state.
<b>Recommended Action</b>	No action is required.

## LACP-1004

<b>Message</b>	Port-channel <PortChannelKey> down from defaulted state.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified port channel is down from the defaulted state.
<b>Recommended Action</b>	No action is required.

## LIC Messages

### LIC-1001

<b>Message</b>	Out of memory in module <Function name>.
<b>Message Type</b>	LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that an unexpected internal memory allocation failure has occurred.
<b>Recommended Action</b>	Try the operation again. If this operation fails, reload or fail over the switch.

## LOG Messages

### LOG-1000

<b>Message</b>	Previous message has repeated <repeat count> times.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the previous message was repeated the specified number of times.
<b>Recommended Action</b>	No action is required.

### LOG-1001

<b>Message</b>	A log message was dropped.
<b>Message Type</b>	LOG   FFDC
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that a log message was dropped. A trace dump file has been created.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

### LOG-1002

<b>Message</b>	A log message was not recorded.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that a log message was not recorded by the error logging system. A trace dump file has been created. The message may still be visible through Simple Network Management Protocol (SNMP) or other management tools.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

## LOG-1003

<b>Message</b>	SYSTEM error log has been cleared.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the persistent system error log has been cleared.
<b>Recommended Action</b>	No action is required.

## LOG-1004

<b>Message</b>	Log message <Log message that has been blocked> flooding detected and blocked.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified message has been flooding and was blocked.
<b>Recommended Action</b>	Reload the switch. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## LOG-1005

<b>Message</b>	Log message <Log message that has been disabled> has been disabled.
<b>Message Type</b>	AUDIT   LOG
<b>Class</b>	RAS
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified message has been disabled from logging.
<b>Recommended Action</b>	No action is required.

## LOG-1006

<b>Message</b>	Log message <Log message that has been enabled> has been enabled.
<b>Message Type</b>	AUDIT   LOG
<b>Class</b>	RAS
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified message has been enabled for logging.
<b>Recommended Action</b>	No action is required.

## LOG-1007

<b>Message</b>	DCE error log has been cleared.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the persistent DCE error log has been cleared.
<b>Recommended Action</b>	No action is required.

## LOG-1008

<b>Message</b>	Log Module <Log Module that has been disabled> has been disabled.
<b>Message Type</b>	AUDIT   LOG
<b>Class</b>	RAS
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified module has been disabled from logging.
<b>Recommended Action</b>	No action is required.



## LOG-1009

<b>Message</b>	Log Module <Log Module that has been enabled> has been enabled.
<b>Message Type</b>	AUDIT   LOG
<b>Class</b>	RAS
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified module has been enabled for logging.
<b>Recommended Action</b>	No action is required.

## LOG-1010

<b>Message</b>	Internal Log message <Log message that has been enabled to be sent to syslog server> has been enabled for syslog logging.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified message has been enabled for syslog logging.
<b>Recommended Action</b>	No action is required.

## LOG-1011

<b>Message</b>	Internal Log message <Log message that has been disabled from being sent to syslog server> has been disabled from syslog logging.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified message has been disabled from syslog logging.
<b>Recommended Action</b>	No action is required.

## LOG-1012

<b>Message</b>	Log Message <Log Message Id> severity has been changed to <Severity>.
<b>Message Type</b>	AUDIT   LOG
<b>Class</b>	RAS
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the severity level of the specified log message has been changed.
<b>Recommended Action</b>	No action is required.

## LSDB Messages

### LSDB-1001

<b>Message</b>	Link State ID <link state ID> out of range.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified link state database ID is out of the acceptable range. The valid <i>link state ID</i> is the same as the valid RBridge ID, whose range is from 1 through 239. The switch will discard the record because it is not supported.
<b>Recommended Action</b>	No action is required.

### LSDB-1002

<b>Message</b>	Local Link State Record reached max incarnation.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates the local link state database reached the maximum incarnation.  An "incarnation" is a progressive number that identifies the most recent version of the link state record (LSR). The switch generates its local link state record when first enabled. The incarnation number will begin again at 0x80000001 after reaching 0x7FFFFFFF.
<b>Recommended Action</b>	No action is required.

### LSDB-1003

<b>Message</b>	No database entry for local Link State Record, RBridge <local RBridge>.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that there is no local link state record (LSR) entry in the link state database. The switch should always generate its own local entry when starting up.  An "incarnation" is a progressive number that identifies the most recent version of LSR. The switch generates its local LSR when first enabled. By disabling and enabling the switch, a new local link state record is generated.

## 7 LSDB-1004

<b>Recommended Action</b>	Execute the <b>chassis disable</b> and <b>chassis enable</b> commands. A new local link state record is generated during the switch enable.
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### LSDB-1004

<b>Message</b>	No Link State Record for RBridge <local RBridge>.
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<b>Message Type</b>	LOG
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<b>Severity</b>	WARNING
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<b>Probable Cause</b>	Indicates there is no link state record (LSR) for the specified local RBridge.
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<b>Recommended Action</b>	No action is required. The other switch will pass the LSR after the fabric is stable.
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## MCST Messages

### MCST-1001

<b>Message</b>	Socket Error: <op> (<reason>) for socket <sockname> the error code<errorname>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that an error has occurred in the Linux socket.
<b>Recommended Action</b>	Reload or power cycle the switch.

### MCST-1002

<b>Message</b>	Socket Error: <op> sock name <sock> Error <error> type <type> seq <seq> pid <pid>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified error has occurred while processing the hardware abstraction layer (HAL) message.
<b>Recommended Action</b>	Reload or power cycle the switch.

### MCST-1003

<b>Message</b>	Learning error: <op> (<reason>) - VLAN <vid> MAC/group <address>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the multicast subsystem (mcast_ss) has encountered an error while learning the media access control (MAC) addresses.
<b>Recommended Action</b>	Reload or power cycle the switch.

## MCST-1004

<b>Message</b>	NSM error: <op> (<reason>) for VLAN <vid> port <port>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the multicast subsystem (mcast_ss) has encountered an error during a network service module (NSM) event.
<b>Recommended Action</b>	Reload or power cycle the switch.

## MCST-1005

<b>Message</b>	Message error: Invalid message type <type> expecting <value1> or <value2> or <value3>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the type of the message received from the driver is invalid.
<b>Recommended Action</b>	Reload or power cycle the switch.

## MCST-1006

<b>Message</b>	Message error: <op> (<reason>)Invalid message length <length> expecting <length1>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the length of the message received from the driver is invalid.
<b>Recommended Action</b>	Reload or power cycle the switch.

## MCST-1007

<b>Message</b>	Initialization error: <op> (<reason>).
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the multicast subsystem (mcast_ss) has encountered an error during initialization.
<b>Recommended Action</b>	Reload or power cycle the switch.

## MCST-1008

<b>Message</b>	HAL error: <op> (<reason>) - VLAN <vid> MAC/group <address>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the multicast subsystem (mcast_ss) has encountered the hardware abstraction layer (HAL) errors.
<b>Recommended Action</b>	Reload or power cycle the switch.

## MCST-1009

<b>Message</b>	L2SS error: <op> (<reason>) VLAN <vid> MAC <mac address>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the multicast subsystem (mcast_ss) has encountered the Layer 2 subsystem (L2SS) related errors.
<b>Recommended Action</b>	Reload or power cycle the switch.

## MCST-1010

<b>Message</b>	Message Queue error: <op> (<reason>).
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the multicast subsystem (mcast_ss) has encountered the message queue errors.
<b>Recommended Action</b>	Reload or power cycle the switch.

## MCST-1011

<b>Message</b>	IDB error: <op> (<reason>) port index <port-index> not found for VLAN ID <vlan-id>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified port index is invalid.
<b>Recommended Action</b>	If there is an impact on the data path, reload or power cycle the switch. Refer to the <b>Network OS Administrator's Guide</b> for instructions to verify the data path.

## MCST-1012

<b>Message</b>	IDB error: <op> (<reason>) VLAN ID <vid> not found.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified VLAN ID (VID) is invalid.
<b>Recommended Action</b>	If there is an impact on the data path, reload or power cycle the switch. Refer to the <b>Network OS Administrator's Guide</b> for instructions to verify the data path.



## MCST-1013

<b>Message</b>	Snooping DB error: <op> (<reason>) Group not found - VLAN <vid> group <group address>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the group address lookup for the specified VLAN has failed.
<b>Recommended Action</b>	Reload or power cycle the switch.

## MCST-1014

<b>Message</b>	Snooping DB error: <op> (<reason>) MAC not found - VLAN <vid> MAC-addr <MAC address>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the media access control (MAC) address lookup for the specified VLAN has failed.
<b>Recommended Action</b>	Reload or power cycle the switch.

## MCST-1015

<b>Message</b>	HSL error: <op> (<reason>) failed for message <message> VLAN <vid> MAC <MAC address> mgid <mgid> CPU <cpu>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified hardware subsystem layer (HSL) related operation has failed.
<b>Recommended Action</b>	Reload or power cycle the switch.

**MCST-1016**

<b>Message</b>	Message error: <op> (<reason>) <length> (<length1>).
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the length of the message received from the driver is invalid.
<b>Recommended Action</b>	Reload or power cycle the switch.

**MCST-1017**

<b>Message</b>	Learning error: <op> (<reason>) Invalid number <port> for ifindex <ifindex>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the multicast subsystem (mcast_ss) has encountered an error while learning the media access control (MAC) addresses.
<b>Recommended Action</b>	Reload or power cycle the switch.

**MCST-1018**

<b>Message</b>	Memory Alloc Error: <op> (<reason>) type <memtype>/<memsize>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the multicast subsystem (mcast_ss) has encountered an error during the memory allocation.
<b>Recommended Action</b>	Reload or power cycle the switch.

## MCST-1019

<b>Message</b>	Ptree Error: <op> (<reason>) VLAN <vid> MAC/group <address>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the multicast subsystem (mcast_ss) has encountered an error during the Ptree operation.
<b>Recommended Action</b>	Reload or power cycle the switch.

## MCST-1020

<b>Message</b>	List Error: <op> (<reason>) VLAN <vid> MAC <mac address> group <group address>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the multicast subsystem (mcast_ss) has encountered an error during the List operation.
<b>Recommended Action</b>	Reload or power cycle the switch.

## MPTH Messages

### MPTH-1001

<b>Message</b>	Null parent, lsId = <number>.
<b>Message Type</b>	LOG   FFDC
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that a null parent was reported. The minimum cost path (MPATH) uses a tree structure in which the parent is used to connect to the root of the tree.
<b>Recommended Action</b>	No action is required.

### MPTH-1002

<b>Message</b>	Null lsRP, lsId = <ls ID number>.
<b>Message Type</b>	LOG   FFDC
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the link state record (LSR) is null.
<b>Recommended Action</b>	No action is required.

### MPTH-1003

<b>Message</b>	No minimum cost path in candidate list.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates the fabric shortest path first (FSPF) module has determined that there is no minimum cost path (MPATH) available in the candidate list.
<b>Recommended Action</b>	No action is required.

## MS Messages

### MS-1021

<b>Message</b>	MS WARMBOOT failure (FSS_MS_WARMINIT failed. Reason=<failure reason>).
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that fabric synchronization service (FSS) warm recovery failed during the warm initialization phase of the switch reload.
<b>Recommended Action</b>	If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## MSTP Messages

### MSTP-1001

<b>Message</b>	<message> : <message>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the system has failed to allocate memory.
<b>Recommended Action</b>	Check the memory usage on the switch using the <b>show process memory</b> command. Reload or power cycle the switch.

### MSTP-1002

<b>Message</b>	<message> : <message>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the system has failed to initialize.
<b>Recommended Action</b>	Reload or power cycle the switch.

### MSTP-1003

<b>Message</b>	<message> : <message>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates a connection, transfer, or receiving error in the socket.
<b>Recommended Action</b>	If this is a modular switch, execute the <b>ha failover</b> command. If the problem persists or if this is a compact switch, download a new firmware version using the <b>firmware download</b> command.

## MSTP-1004

<b>Message</b>	<message>: <message>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that a port on which PortFast is enabled has received a bridge protocol data unit (BPDU). The port has been disabled.
<b>Recommended Action</b>	<p>Disable the PortFast feature on the port using one of the following commands:</p> <ul style="list-style-type: none"> <li>For Rapid Spanning Tree Protocol (RSTP), execute the <b>no spanning-tree edgeport</b> command.</li> <li>For Spanning Tree Protocol (STP), execute the <b>no spanning-tree portfast</b> command.</li> </ul> <p>After disabling the PortFast feature, execute the <b>no shutdown</b> command to re-enable the port.</p>

## MSTP-2001

<b>Message</b>	<message>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the Multiple Spanning Tree Protocol (MSTP) bridge mode has changed.
<b>Recommended Action</b>	No action is required.

## MSTP-2002

<b>Message</b>	<Bridge mode information>. My Bridge ID: <Bridge ID> Old Root: <Old Root ID> New Root: <New Root ID>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the Multiple Spanning Tree Protocol (MSTP) bridge or bridge instance root has been changed.
<b>Recommended Action</b>	No action is required.

## MSTP-2003

<b>Message</b>	MSTP instance <instance> is created.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified Multiple Spanning Tree Protocol (MSTP) instance has been created.
<b>Recommended Action</b>	No action is required.

## MSTP-2004

<b>Message</b>	MSTP instance <instance> is deleted.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified Multiple Spanning Tree Protocol (MSTP) instance has been deleted.
<b>Recommended Action</b>	No action is required.

## MSTP-2005

<b>Message</b>	VLAN <vlan_ids> is <action> on MSTP instance <instance>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified Multiple Spanning Tree Protocol (MSTP) instance has been modified.
<b>Recommended Action</b>	No action is required.

## MSTP-2006

<b>Message</b>	MSTP instance <instance> bridge priority is changed from <priority_old> to <priority_new>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified Multiple Spanning Tree Protocol (MSTP) instance priority has been modified.



**Recommended Action** No action is required.

## MSTP-3001

**Message** Could not restore spanning tree protocol settings from startup-config. Spanning tree is configured in shutdown state.

**Message Type** DCE

**Severity** ERROR

**Probable Cause** Indicates that allocation of logical bridge ID has failed. The VCS cluster formation could be in progress.

**Recommended Action** Wait for cluster formation to complete and then enable the Spanning Tree Protocol using the **no spanning-tree shutdown** command. You may have to execute the **shutdown** command followed by the **no shutdown** command from protocol spanning-tree submenu.

## MSTP-3002

**Message** Could not restore spanning tree state for interface <ifName>.

**Message Type** DCE

**Severity** ERROR

**Probable Cause** Indicates that allocation of logical port ID has failed. The VCS cluster formation could be in progress.

**Recommended Action** Wait for cluster formation to complete and then enable the spanning tree on the interface. You may have to execute the **spanning-tree shutdown** command followed by the **no spanning-tree shutdown** command from interface submenu.

## MSTP-3003

**Message** Could not restore spanning tree state for interface <ifName>. Maximum port count reached.

**Message Type** DCE

**Severity** ERROR

**Probable Cause** Indicates that the system ran out of port ID space, probably due to stale entries in the system. The maximum port count for STP and PVST is 1 through 255, and for RSTP, MSTP, and RPVST the maximum port count is 1 through 4095.

**Recommended Action** Shut down spanning tree on interfaces that are no longer required using the **spanning-tree shutdown** command and try the operation again.

## NBFS Messages

### NBFS-1001

<b>Message</b>	Duplicate E_Port SCN from port <portnumber> in state <state change name> (<state change number>).
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	<p>Indicates that a duplicate E_Port state change number was reported. The neighbor finite state machine (NBFSM) states are as follows:</p> <ul style="list-style-type: none"> <li>• NB_ST_DOWN - The neighbor is down.</li> <li>• NB_ST_INIT - The neighbor is initializing.</li> <li>• NB_ST_DB_EX - The neighbor and the switch are exchanging data from their link state record (LSR) databases.</li> <li>• NB_ST_DB_ACK_WT - The neighbor is waiting for the switch to acknowledge the LSR database.</li> <li>• NB_ST_DB_WT - The LSR database is in the waiting state; synchronization is in process.</li> <li>• NB_ST_FULL - The neighbor is in the finishing state.</li> </ul>
<b>Recommended Action</b>	No action is required.

### NBFS-1002

<b>Message</b>	Wrong input: <state name> to neighbor FSM, state <current state name>, port <portnumber>.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	<p>Indicates that a wrong input was sent to the neighbor finite state machine (NBFSM). NBFSM states are as follows:</p> <ul style="list-style-type: none"> <li>• NB_ST_DOWN - The neighbor is down.</li> <li>• NB_ST_INIT - The neighbor is initializing.</li> <li>• NB_ST_DB_EX - The neighbor and the switch are exchanging data from their link state record (LSR) databases.</li> <li>• NB_ST_DB_ACK_WT - The neighbor is waiting for the switch to acknowledge the LSR database.</li> <li>• NB_ST_DB_WT - The LSR database is in the waiting state; synchronization is in process.</li> <li>• NB_ST_FULL - The neighbor is in the finishing state.</li> </ul> <p>If this error occurs repeatedly, then there is a problem in the protocol implementation between two switches.</p>
<b>Recommended Action</b>	Execute the <b>show fabric route neighbor-state</b> command to check the neighbor state of the port listed in the message. If the neighbor state is NB_ST_FULL, then this message can safely be ignored. Otherwise, execute the <b>shutdown</b> and <b>no shutdown</b> commands to reset the port.

## NBFS-1003

<b>Message</b>	DB_XMIT_SET flag not set in state <current state name>, input <state name>, port <portnumber>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	<p>Indicates that the database transmit set flag was not set for the specified input state on the specified port. Neighbor finite state machine (NBFSM) states are as follows:</p> <ul style="list-style-type: none"><li>• NB_ST_DOWN - The neighbor is down.</li><li>• NB_ST_INIT - The neighbor is initializing.</li><li>• NB_ST_DB_EX - The neighbor and the switch are exchanging data from their link state record (LSR) databases.</li><li>• NB_ST_DB_ACK_WT - The neighbor is waiting for the switch to acknowledge the LSR database.</li><li>• NB_ST_DB_WT - The LSR database is in the waiting state; synchronization is in process.</li><li>• NB_ST_FULL - The neighbor is in the finishing state.</li></ul>
<b>Recommended Action</b>	No action is required. The Network OS automatically recovers from this problem.

## NS Messages

### NS-1006

<b>Message</b>	Duplicated WWN was detected with PID 0x<existing device PID> and 0x<new device PID>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that an existing device has the same World Wide Name (WWN) as a new device that has come online.
<b>Recommended Action</b>	The switch will process the new process ID (PID) and leave the existing PID intact. Subsequent switch operations will clean up the obsolete PID. However, administrators can check and remove devices with a duplicated WWN.

### NS-1009

<b>Message</b>	NS has detected a device with node WWN as zero, PID 0x<device PID>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that a port has logged in with the node World Wide Name (WWN) as zero. Brocade Network Advisor (BNA) will not show the port connectivity.
<b>Recommended Action</b>	Check the device that logged in. The device could be misbehaving.

### NS-1012

<b>Message</b>	Detected duplicate WWPN [<WWPN>] - devices removed with PID 0x<existing device PID> and 0x<new device PID>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the devices with the same World Wide Port Name (WWPN) have been removed from the Name Server database.
<b>Recommended Action</b>	Administrators should verify the reported devices with a duplicated WWPN.

## NSM Messages

### NSM-1001

<b>Message</b>	Interface <InterfaceName> is online.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified interface has come online after the protocol dependencies are resolved.
<b>Recommended Action</b>	No action is required.

### NSM-1002

<b>Message</b>	Interface <InterfaceName> is protocol down.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified interface has gone offline because one of the protocol dependency is unresolved.
<b>Recommended Action</b>	Check for the reason codes using the <b>show interface</b> command and resolve the protocol dependencies.

### NSM-1003

<b>Message</b>	Interface <InterfaceName> is link down.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified interface has gone offline because the link was down.
<b>Recommended Action</b>	Check whether the connectivity is proper and the remote link is up.

**NSM-1004**

<b>Message</b>	Interface <InterfaceName> is created.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified logical interface has been created.
<b>Recommended Action</b>	No action is required.

**NSM-1007**

<b>Message</b>	Chassis is <status>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the chassis has been enabled or disabled.
<b>Recommended Action</b>	No action is required.

**NSM-1009**

<b>Message</b>	Interface <InterfaceName> is deleted.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified logical interface has been deleted.
<b>Recommended Action</b>	No action is required.

**NSM-1010**

<b>Message</b>	InterfaceMode changed from <Mode_old> to <Mode_new> for interface <InterfaceName>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the interface mode has been changed.

**Recommended Action** No action is required.

## NSM-1011

**Message** OperationalEndpointMode changed from <Mode\_old> to <Mode\_new> for interface <InterfaceName>.

**Message Type** DCE

**Severity** INFO

**Probable Cause** Indicates that the interface operational endpoint mode has been changed.

**Recommended Action** No action is required.

## NSM-1012

**Message** VLAN classifier group <group\_id> is created.

**Message Type** DCE

**Severity** INFO

**Probable Cause** Indicates that the specified VLAN classifier group has been created.

**Recommended Action** No action is required.

## NSM-1013

**Message** VLAN classifier group <group\_id> is deleted.

**Message Type** DCE

**Severity** INFO

**Probable Cause** Indicates that the specified VLAN classifier group has been deleted.

**Recommended Action** No action is required.

**NSM-1014**

<b>Message</b>	VLAN classifier rule <rule_id> is created.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified VLAN classifier rule has been created.
<b>Recommended Action</b>	No action is required.

**NSM-1015**

<b>Message</b>	VLAN classifier rule <rule_id> is deleted.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified VLAN classifier rule has been deleted.
<b>Recommended Action</b>	No action is required.

**NSM-1016**

<b>Message</b>	VLAN classifier rule <rule_id> is <action> on VLAN classifier group <group_id>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified VLAN classifier group has been modified.
<b>Recommended Action</b>	No action is required.

**NSM-1017**

<b>Message</b>	Interface <InterfaceName> is <action> on interface <Logical_InterfaceName>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified logical interface member list has been changed.



**Recommended Action** No action is required.

## NSM-1018

**Message** <count> VLANs <except> will be allowed on interface <Logical\_InterfaceName>.

**Message Type** DCE

**Severity** INFO

**Probable Cause** Indicates that the VLAN membership has been changed for the specified interface.

**Recommended Action** No action is required.

## NSM-1019

**Message** Interface <InterfaceName> is administratively up.

**Message Type** DCE

**Severity** INFO

**Probable Cause** Indicates that the interface administrative status has changed to up.

**Recommended Action** No action is required.

## NSM-1020

**Message** Interface <InterfaceName> is administratively down.

**Message Type** DCE

**Severity** INFO

**Probable Cause** Indicates that the interface administrative status has changed to down.

**Recommended Action** No action is required.

## NSM-1021

<b>Message</b>	Interface IP overlap with management IP <ipAddr> ifname:<ifname>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the IP address configured on the interface overlaps with the management IP address.
<b>Recommended Action</b>	Change the interface IP address using the <b>ip address</b> command.

## NSM-1022

<b>Message</b>	FCoE configuration has been <Option> on interface <InterfaceName>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the Fibre Channel over Ethernet (FCoE) configuration has been enabled or disabled on the specified interface.
<b>Recommended Action</b>	No action is required.

## NSM-1023

<b>Message</b>	RBridge ID <RBridgeId> has joined Port-channel <PortChannelKey>. Port-channel is a vLAG with RBridge IDs <RBridgeList>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified RBridge has joined the virtual link aggregation group (vLAG).
<b>Recommended Action</b>	No action is required.

## NSM-1024

<b>Message</b>	RBridge ID <RBridgeId> has left Port-channel <PortChannelKey>. Port-channel is a vLAG with RBridge IDs <RBridgeList>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified RBridge has left the virtual link aggregation group (vLAG).
<b>Recommended Action</b>	No action is required.

## NSM-1025

<b>Message</b>	RBridge ID <RBridgeId> has left Port-channel <PortChannelKey>. Port-channel has only RBridge ID <RbridgeList> and is no longer a vLAG.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the virtual link aggregation group (vLAG) no longer exists.
<b>Recommended Action</b>	No action is required.

## NSM-1026

<b>Message</b>	SFP transceiver for interface <InterfaceName> is inserted.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a small form-factor pluggable (SFP) transceiver has been inserted in the specified interface.
<b>Recommended Action</b>	No action is required.

## NSM-1027

<b>Message</b>	SFP transceiver for interface <InterfaceName> is removed.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a small form-factor pluggable (SFP) transceiver has been removed from the specified interface.
<b>Recommended Action</b>	No action is required.

## NSM-1028

<b>Message</b>	Incompatible SFP transceiver for interface <InterfaceName> is detected.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that an incompatible small form-factor pluggable (SFP) transceiver for the interface has been inserted.
<b>Recommended Action</b>	Disable the interface using the <b>shutdown</b> command and insert an SFP transceiver that is supported on the interface. After the SFP transceiver is inserted, re-enable the interface using the <b>no shutdown</b> command.

## NSM-1029

<b>Message</b>	Failed to read SFP transceiver for interface <InterfaceName>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates failure to read the small form-factor pluggable (SFP) transceiver for the specified interface.
<b>Recommended Action</b>	Disable the interface using the <b>shutdown</b> command and re-insert the SFP transceiver. After the SFP transceiver is inserted, re-enable the interface using the <b>no shutdown</b> command. If the problem persists, contact your switch service provider.

## NSM-1030

<b>Message</b>	Interface <InterfaceName> is administratively down due to speed mismatch in port-channel.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified interface has gone down due to mismatching speed in the port-channel.
<b>Recommended Action</b>	Set the correct speed for the interface using the <b>speed</b> command.

## NSM-1031

<b>Message</b>	Session <SessionNumber> is created.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified session has been created.
<b>Recommended Action</b>	No action is required.

## NSM-1032

<b>Message</b>	Session <SessionNumber> is deleted.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified session has been deleted.
<b>Recommended Action</b>	No action is required.

## NSM-1033

<b>Message</b>	Session <SessionNumber> configuration is deleted.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified session configuration has been deleted.

## 7 NSM-1034

**Recommended Action** No action is required.

### NSM-1034

**Message** Session <SessionNumber> configuration is added.

**Message Type** DCE

**Severity** INFO

**Probable Cause** Indicates that the specified session configuration has been added.

**Recommended Action** No action is required.

### NSM-1035

**Message** Description for Session <SessionNumber> is added.

**Message Type** DCE

**Severity** INFO

**Probable Cause** Indicates that the session description has been added.

**Recommended Action** No action is required.

### NSM-1036

**Message** Description for Session <SessionNumber> is deleted.

**Message Type** DCE

**Severity** INFO

**Probable Cause** Indicates that the session description has been deleted.

**Recommended Action** No action is required.

## NSM-1037

<b>Message</b>	Interface <InterfaceName> is administratively down due to 1Gbps link configured on Brocade Trunk.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified interface has gone down because a 1 Gbps link has been configured on the Brocade trunk.
<b>Recommended Action</b>	Remove the 1 Gbps link from the Brocade trunk or change the 1 Gbps small form-factor pluggable (SFP) transceiver.

## NSM-1038

<b>Message</b>	Private VLAN mode changed from <Mode_old> to <Mode_new> for interface <InterfaceName>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the private VLAN mode has been changed for the specified interface.
<b>Recommended Action</b>	No action is required.

## NSM-1039

<b>Message</b>	Unsupported Brocade-branded SFP transceiver for interface <InterfaceName> is detected.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that an unsupported Brocade-branded small form-factor pluggable (SFP) transceiver has been inserted in the specified interface.
<b>Recommended Action</b>	Use a Brocade-branded SFP transceiver for the interface because the digital diagnostics will not be supported.

## NSM-2000

<b>Message</b>	Port-profile <ProfileName> activation succeeded.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the profile activation was successful.
<b>Recommended Action</b>	No action is required.

## NSM-2001

<b>Message</b>	Port-profile <ProfileName> activation failed, reason <Reason>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the profile activation was unsuccessful.
<b>Recommended Action</b>	Check the configuration and port-profile status using the <b>show port-profile status</b> command. Execute the <b>copy support</b> command and contact your switch service provider.

## NSM-2002

<b>Message</b>	Port-profile <ProfileName> deactivation succeeded.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the profile deactivation was successful.
<b>Recommended Action</b>	No action is required.

## NSM-2003

<b>Message</b>	Port-profile <ProfileName> deactivation failed, reason <Reason>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the profile deactivation was unsuccessful.



**Recommended Action** Check the configuration and port-profile status using the **show port-profile status** command. Execute the **copy support** command and contact your switch service provider.

## NSM-2004

**Message** Port-profile <ProfileName> application succeeded on <InterfaceName>.

**Message Type** DCE

**Severity** INFO

**Probable Cause** Indicates that the profile application was successful.

**Recommended Action** No action is required.

## NSM-2005

**Message** Port-profile <ProfileName> application failed on <InterfaceName>, reason <Reason>, removing any applied configuration.

**Message Type** DCE

**Severity** ERROR

**Probable Cause** Indicates that the profile application on the specified interface was unsuccessful.

**Recommended Action** Check the configuration and port-profile status using the **show port-profile status** command. Execute the **copy support** command and contact your switch service provider.

## NSM-2006

**Message** Port-profile <ProfileName> removed successfully on <InterfaceName>.

**Message Type** DCE

**Severity** INFO

**Probable Cause** Indicates that the specified port-profile has been removed successfully.

**Recommended Action** No action is required.

## NSM-2007

<b>Message</b>	Interface <InterfaceName> became port-profile-port.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the port-profile configuration mode has been enabled on the specified interface using the <b>port-profile-port</b> command.
<b>Recommended Action</b>	No action is required.

## NSM-2008

<b>Message</b>	Interface <InterfaceName> became non-port-profile-port.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the port-profile configuration mode has been disabled on the specified interface using the <b>no port-profile-port</b> command.
<b>Recommended Action</b>	No action is required.

## NSM-2010

<b>Message</b>	Interface <InterfaceName> could not become non-port-profile-port.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the port-profile configuration mode could not be disabled on the specified interface using the <b>no port-profile-port</b> command.
<b>Recommended Action</b>	Check the configuration and port-profile status using the <b>show port-profile status</b> command. Execute the <b>copy support</b> command and contact your switch service provider.

## NSM-2011

<b>Message</b>	Port-profile <ProfileName> removal failed on <InterfaceName>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified port-profile could not be removed.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

## NSM-2012

<b>Message</b>	MAC <ProfileMac> is associated to port-profile <ProfileName>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates successful association of the virtual machine (VM) media access control (MAC) address with the specified port-profile.
<b>Recommended Action</b>	No action is required.

## NSM-2013

<b>Message</b>	MAC <ProfileMac> is disassociated from port-profile <ProfileName>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates successful disassociation of the virtual machine (VM) media access control (MAC) address from the specified port-profile.
<b>Recommended Action</b>	No action is required.

## NSM-2014

<b>Message</b>	VLAN sub-profile for port-profile <ProfileName> is created.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the VLAN sub-profile has been created successfully.
<b>Recommended Action</b>	No action is required.

## NSM-2015

<b>Message</b>	Access VLAN <VlanId> is configured for port-profile <ProfileName>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the untagged VLAN has been configured for the specified port-profile.
<b>Recommended Action</b>	No action is required.

## NSM-2016

<b>Message</b>	Access VLAN is deleted from port-profile <ProfileName>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the untagged VLAN has been removed from the specified port-profile.
<b>Recommended Action</b>	No action is required.

## NSM-2017

<b>Message</b>	Port-profile <ProfileName> is configured for switching properties.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the switching properties have been configured on the specified port-profile using the <b>switchport</b> command.

**Recommended Action** No action is required.

## NSM-2018

**Message** Switching properties are removed for port-profile <ProfileName>.

**Message Type** DCE

**Severity** INFO

**Probable Cause** Indicates that the switching properties have been removed from the specified port-profile using the **no switchport** command.

**Recommended Action** No action is required.

## NSM-2019

**Message** The <ModeName> mode is configured for port-profile <ProfileName>.

**Message Type** DCE

**Severity** INFO

**Probable Cause** Indicates that the specified mode has been configured for the port-profile using the **switchport mode** command.

**Recommended Action** No action is required.

## NSM-2020

**Message** The <ModeName> mode is de-configured for port-profile <ProfileName>.

**Message Type** DCE

**Severity** INFO

**Probable Cause** Indicates that the specified mode has been removed for the port-profile using the **switchport mode** command.

**Recommended Action** No action is required.

## NSM-2021

<b>Message</b>	The tagged VLANs <TaggedVlanStr> are configured for port-profile <ProfileName>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified tagged VLANs are configured in the VLAN sub-profile.
<b>Recommended Action</b>	No action is required.

## NSM-2022

<b>Message</b>	The tagged VLANs <TaggedVlanStr> are removed for port-profile <ProfileName>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified tagged VLANs have been removed from the VLAN sub-profile.
<b>Recommended Action</b>	No action is required.

## NSM-2023

<b>Message</b>	The tagged VLANs except <TaggedVlanStr> are configured for port-profile <ProfileName>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that except the specified tagged VLANs, all other tagged VLANs are configured in the VLAN sub-profile.
<b>Recommended Action</b>	No action is required.

## NSM-2024

<b>Message</b>	All VLANs are configured as tagged VLANs for port-profile <ProfileName>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that all the available tagged VLANs are configured in the specified VLAN sub-profile.
<b>Recommended Action</b>	No action is required.

## NSM-2025

<b>Message</b>	All tagged VLANs are removed for port-profile <ProfileName>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that all the available tagged VLANs have been from the specified VLAN sub-profile.
<b>Recommended Action</b>	No action is required.

## NSM-2026

<b>Message</b>	Native VLAN <VlanId> is configured to port-profile <ProfileName>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the native VLAN has been configured for the specified port-profile.
<b>Recommended Action</b>	No action is required.

## NSM-2027

<b>Message</b>	Native VLAN is deleted from port-profile <ProfileName>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the native VLAN has been removed from the specified port-profile.

<b>Recommended Action</b>	No action is required.
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## NSM-2028

<b>Message</b>	FCoE sub-profile for port-profile <ProfileName> is created.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the Fibre Channel over Ethernet (FCoE) sub-profile has been created for the specified port-profile.
<b>Recommended Action</b>	No action is required.

## NSM-2029

<b>Message</b>	FCoE port is configured successfully for port-profile <ProfileName>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the Fibre Channel over Ethernet (FCoE) port has been configured for the specified port-profile.
<b>Recommended Action</b>	No action is required.

## NSM-2030

<b>Message</b>	FCoE port is removed successfully for port-profile <ProfileName>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the Fibre Channel over Ethernet (FCoE) port has been removed from the specified port-profile.
<b>Recommended Action</b>	No action is required.



## NSM-2031

<b>Message</b>	Port-profile <ProfileName> is created.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified port-profile has been created successfully.
<b>Recommended Action</b>	No action is required.

## NSM-2032

<b>Message</b>	Port-profile <ProfileName> is removed.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified port-profile has been removed successfully.
<b>Recommended Action</b>	No action is required.

## NSM-2033

<b>Message</b>	VLAN sub-profile for port-profile <ProfileName> is deleted.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the VLAN sub-profile has been deleted successfully.
<b>Recommended Action</b>	No action is required.

## NSM-2034

<b>Message</b>	FCoE sub-profile for port-profile <ProfileName> is deleted.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the Fibre Channel over Ethernet (FCoE) sub-profile has been deleted successfully.

<b>Recommended Action</b>	No action is required.
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## NSM-2035

<b>Message</b>	Non-profiled-macs on profiled ports will be <allowflag>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the non-profiled media access control (MAC) entries on the profiled port will be allowed or dropped.
<b>Recommended Action</b>	No action is required.

## NSM-2036

<b>Message</b>	Association of MAC address: <MAC> failed. Reason : <Reason>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that an error occurred during port-profile to media access control (MAC) association.
<b>Recommended Action</b>	Check the configuration and port-profile status using the <b>show port-profile status</b> command. Execute the <b>copy support</b> command and contact your switch service provider.

## NSM-2037

<b>Message</b>	De-Association of MAC address: <MAC> failed. For Port-profile : <Reason>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that an error occurred during port-profile to media access control (MAC) de-association.
<b>Recommended Action</b>	Check the configuration and port-profile status using the <b>show port-profile status</b> command. Execute the <b>copy support</b> command and contact your switch service provider.

## NSM-2038

<b>Message</b>	Bulk MAC association is Success for port-profile: <ProfileName>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that all media access control (MAC) entries are successfully associated with the specified port-profile.
<b>Recommended Action</b>	No action is required.

## NSM-2039

<b>Message</b>	Bulk MAC de-association is Success for port-profile: <ProfileName>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that all media access control (MAC) entries are successfully de-associated with the specified port-profile.
<b>Recommended Action</b>	No action is required.

## ONMD Messages

### ONMD-1000

<b>Message</b>	LLDP is enabled.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the Link Layer Discovery Protocol (LLDP) is enabled globally.
<b>Recommended Action</b>	No action is required.

### ONMD-1001

<b>Message</b>	LLDP is disabled.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the Link Layer Discovery Protocol (LLDP) is disabled globally.
<b>Recommended Action</b>	No action is required.

### ONMD-1002

<b>Message</b>	LLDP global configuration is changed.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the Link Layer Discovery Protocol (LLDP) global configuration has been changed.
<b>Recommended Action</b>	No action is required.

## ONMD-1003

<b>Message</b>	LLDP is enabled on interface <InterfaceName>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the Link Layer Discovery Protocol (LLDP) is enabled on the specified interface.
<b>Recommended Action</b>	No action is required.

## ONMD-1004

<b>Message</b>	LLDP is disabled on interface <InterfaceName>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the Link Layer Discovery Protocol (LLDP) is disabled on the specified interface.
<b>Recommended Action</b>	No action is required.

## ONMD-1005

<b>Message</b>	Feature Mismatch: <Feature>, will re-negotiate.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the content of the specified feature does not match with the link partner.
<b>Recommended Action</b>	Change the feature setting at both ends of the link to match.

## OSPF Messages

### OSPF-1001

<b>Message</b>	<code>&lt;error message&gt;.</code>
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates a configuration error.
<b>Recommended Action</b>	Make sure to input or pass the right parameter through CLI or other daemon.

### OSPF-1002

<b>Message</b>	<code>&lt;message&gt;.</code>
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates an open shortest path first (OSPF) interface state change or external link-state database (LSDB) overflow notification.
<b>Recommended Action</b>	No action is required.

### OSPF-1003

<b>Message</b>	<code>&lt;error message&gt;.</code>
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the length, format, or content of the received packet is incorrect.
<b>Recommended Action</b>	Check configuration at the local or remote node.

## PCAP Messages

### PCAP-1001

<b>Message</b>	Packet capture enabled on the <Port name> interface.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that packet capture is enabled on the specified interface.
<b>Recommended Action</b>	No action is required.

### PCAP-1002

<b>Message</b>	Packet capture disabled on the <Port name> interface.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that packet capture is disabled on the specified interface.
<b>Recommended Action</b>	No action is required.

### PCAP-1003

<b>Message</b>	Packet capture disabled globally.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that packet capture is disabled globally on the switch.
<b>Recommended Action</b>	No action is required.

## PCAP-1004

<b>Message</b>	<filename> file is created. Location is flash://<filename>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified .pcap file has been created.
<b>Recommended Action</b>	No action is required.



## PDM Messages

### PDM-1001

<b>Message</b>	<code>Failed to parse the pdm config.</code>
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the parity data manager (PDM) process could not parse the configuration file. This may be caused due to a missing configuration file during the installation.
<b>Recommended Action</b>	Execute the <b>firmware download</b> command to reinstall the firmware. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

### PDM-1003

<b>Message</b>	<code>pdm [-d] -S &lt;service&gt; -s &lt;instance&gt;.</code>
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that a syntax error occurred when trying to launch the parity data manager (PDM) process.
<b>Recommended Action</b>	Execute the <b>firmware download</b> command to reinstall the firmware. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

### PDM-1004

<b>Message</b>	<code>PDM memory shortage.</code>
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the parity data manager (PDM) process ran out of memory.
<b>Recommended Action</b>	Restart or power cycle the switch. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## PDM-1006

<b>Message</b>	Too many files in <code>sync.conf</code> .
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the <code>sync.conf</code> configuration file contains too many entries.
<b>Recommended Action</b>	Execute the <b>firmware download</b> command to reinstall the firmware. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## PDM-1007

<b>Message</b>	File not created: <file name>. errno=<errno>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the parity data manager (PDM) process failed to create the specified file.
<b>Recommended Action</b>	Execute the <b>firmware download</b> command to reinstall the firmware. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## PDM-1009

<b>Message</b>	Cannot update Port Config Data.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the parity data manager (PDM) system call for setting port configuration (setCfg) failed.
<b>Recommended Action</b>	Execute the <b>firmware download</b> command to reinstall the firmware. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## PDM-1010

<b>Message</b>	File open failed: <file name>, errno=<errno>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the parity data manager (PDM) process could not open the specified file.

<b>Recommended Action</b>	Execute the <b>firmware download</b> command to reinstall the firmware.
	If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## PDM-1011

<b>Message</b>	File read failed: <file name>, Length (read=<Number of character read>, expected=<Number of characters expected>), errno=<errno returned by read>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the parity data manager (PDM) process could not read data from the specified file.
<b>Recommended Action</b>	Execute the <b>firmware download</b> command to reinstall the firmware.
	If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## PDM-1012

<b>Message</b>	File write failed: <file name>. Length (read=<Number of character read>, write=<Number of characters written>), errno=<errno returned by write>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the parity data manager (PDM) process could not write data to the specified file.
<b>Recommended Action</b>	Execute the <b>firmware download</b> command to reinstall the firmware.
	If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## PDM-1013

<b>Message</b>	File empty: <File Name>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the switch configuration file <code>/etc/fabos/fabos.[0 1].conf</code> is empty.
<b>Recommended Action</b>	Execute the <b>firmware download</b> command to reinstall the firmware.
	If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## PDM-1014

<b>Message</b>	Access sysmod failed.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that a system call to sysMod failed.
<b>Recommended Action</b>	Execute the <b>firmware download</b> command to reinstall the firmware. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## PDM-1017

<b>Message</b>	System (<Error Code>): <Command>.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the specified system call failed.
<b>Recommended Action</b>	Execute the <b>firmware download</b> command to reinstall the firmware. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## PDM-1019

<b>Message</b>	File path or trigger is too long.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that a line in the <i>pdm.conf</i> file is too long.
<b>Recommended Action</b>	Execute the <b>firmware download</b> command to reinstall the firmware. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## PDM-1021

<b>Message</b>	Failed to download area port map.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that a system call failed.

**Recommended Action**      Execute the **firmware download** command to reinstall the firmware.  
If the message persists, execute the **copy support** command and contact your switch service provider.

## PHP Messages

### PHP-1001

<b>Message</b>	<PHP Script message>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates a user-defined informative message.
<b>Recommended Action</b>	No action is required.

### PHP-1002

<b>Message</b>	<PHP Script message>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates a user-defined warning message.
<b>Recommended Action</b>	No action is required.

### PHP-1003

<b>Message</b>	<PHP Script message>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates a user-defined error message.
<b>Recommended Action</b>	No action is required.

## PHP-1004

<b>Message</b>	<PHP Script message>.
<b>Message Type</b>	LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates a user-defined critical message.
<b>Recommended Action</b>	No action is required.

## PIM Messages

### PIM-1001

<b>Message</b>	<message> init failed.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that an internal failure occurred during sub-system initialization.
<b>Recommended Action</b>	Make sure the switch has enough memory to initialize the sub-system.



## PLAT Messages

### PLAT-1000

<b>Message</b>	<code>&lt;Function name&gt; &lt;Error string&gt;.</code>
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that nonrecoverable peripheral component interconnect (PCI) errors have been detected.
<b>Recommended Action</b>	The system will be faulted and may reload automatically. If the system does not reload, execute the <b>reload</b> command. Execute the <b>copy support</b> command and contact your switch service provider.

### PLAT-1001

<b>Message</b>	<code>MM&lt;Identifies which MM (1 or 2) is doing the reset&gt; resetting other MM (double reset may occur).</code>
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the other management module is being reset. This message is typically generated by a management module that is in the process of becoming the active management module. Note that in certain circumstances a management module may experience a double reset and reload twice. A management module can recover automatically even if it has reloaded twice.
<b>Recommended Action</b>	No action is required.

### PLAT-1002

<b>Message</b>	<code>MM&lt;Identifies which MM (1 or 2) is generating the message&gt;: &lt;Warning message&gt; hk_fence 0x&lt;MM Housekeeping Fence register. Contents are platform-specific&gt; mm_ha 0x&lt;MM HA register. Contents are platform-specific&gt; mm_status 0x&lt;MM Status register. Contents are platform-specific&gt;.</code>
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that one of the management modules cannot access the inter-integrated circuit (I2C) subsystem because of an error condition or being isolated from the I2C bus.
<b>Recommended Action</b>	Reload the management module if it does not reload automatically. Reseat the management module if reloading does not solve the problem. If the problem persists, replace the management module.

## PLAT-1004

<b>Message</b>	Turning off Fan <Fan Number> because of airflow direction mismatch.
<b>Message Type</b>	LOG   FFDC
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the specified fan field-replaceable unit (FRU) has been turned off because it is incompatible with the system airflow direction policy.
<b>Recommended Action</b>	Replace the fan FRU. Refer to the <i>Hardware Reference Manual</i> of your switch for instructions to replace the fan FRU.

## PLAT-1005

<b>Message</b>	Unable to read EEPROM for Global airflow direction. Setting to default Port side intake.
<b>Message Type</b>	LOG   FFDC
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates a failure to read the electrically erasable programmable read-only memory (EEPROM) to determine the airflow direction of the fans. Therefore, setting the airflow direction to be from the port side of the system.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

## PLAT-1006

<b>Message</b>	Unable to read EEPROM for Global airflow direction. Shutting off Fans now.
<b>Message Type</b>	LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates a failure to read the electrically erasable programmable read-only memory (EEPROM) to determine the airflow direction of the fans. The fans will be shut down.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

## PLAT-1007

<b>Message</b>	Turning off Fan <Fan Number> because of airflow direction <Global airflow direction>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified fan is turned off because of an incorrect airflow direction.
<b>Recommended Action</b>	Replace the fan field-replaceable units (FRUs) in such a manner that the air flows in the same direction, that is, towards the port side or away from the port side of the system. Refer to the <i>Hardware Reference Manual</i> of your switch for instructions to replace the fan FRU.

## PLAT-1008

<b>Message</b>	Unable to read EEPROM for Global airflow direction.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates a failure to read the electrically erasable programmable read-only memory (EEPROM) and therefore unable to determine the global airflow direction of the fans.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

## PLAT-1009

<b>Message</b>	Unable to read EEPROM Valid Signature for Global airflow direction.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the content read from electrically erasable programmable read-only memory (EEPROM) is invalid and therefore unable to determine the global airflow direction of the fans.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

## PORT Messages

### PORT-1003

<b>Message</b>	Port <port number> Faulted because of many Link Failures.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the specified port is disabled because of multiple link failures on the port that have exceeded the threshold internally set on the port. This problem is related to the hardware.
<b>Recommended Action</b>	<p>Check and replace (if necessary) the hardware attached to both the ends of the specified port, including:</p> <ul style="list-style-type: none"> <li>• The small form-factor pluggable (SFP)</li> <li>• The cable (fiber-optic or copper inter-switch link (ISL))</li> <li>• The attached devices</li> </ul> <p>After checking the hardware, execute the <b>no shutdown</b> command to re-enable the port.</p>

### PORT-1004

<b>Message</b>	Port <port number> (0x<port number (hex)>) could not be enabled because it is disabled due to long distance.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified port cannot be enabled because other ports in the same group have used the buffers of this port group. This happens when other ports are configured to be long distance.
<b>Recommended Action</b>	<p>To enable the specified port, perform one of the following actions:</p> <ul style="list-style-type: none"> <li>• Reconfigure the other E_Ports so that they are not long distance.</li> <li>• Change the other E_Ports so that they are not E_Ports.</li> </ul> <p>This will free some buffers and allow the port to be enabled.</p>

### PORT-1011

<b>Message</b>	An SFP transceiver for interface Fibre Channel <rbridge-id number>/<slot number>/<port number> is removed.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a small form-factor pluggable (SFP) transceiver has been removed from the specified port.

**Recommended Action** No action is required.

## PORT-1012

**Message** An SFP transceiver for interface Fibre Channel <rbridge-id number>/<slot number>/<port number> is inserted.

**Message Type** LOG

**Severity** INFO

**Probable Cause** Indicates that a small form-factor pluggable (SFP) transceiver has been inserted into the specified port.

**Recommended Action** No action is required.

## PORT-1013

**Message** An incompatible SFP transceiver for interface Fibre Channel <rbridge-id number>/<slot number>/<port number> is inserted.

**Message Type** LOG

**Severity** INFO

**Probable Cause** Indicates that an incompatible small form-factor pluggable (SFP) transceiver has been inserted into the specified port.

**Recommended Action** No action is required.

## PORT-1014

**Message** Interface Fibre Channel <rbridge-id number>/<slot number>/<port number> is online.

**Message Type** LOG

**Severity** INFO

**Probable Cause** Indicates that the specified Fibre Channel interface has come online after the protocol dependencies are resolved.

**Recommended Action** No action is required.

## PORT-1015

<b>Message</b>	Interface Fibre Channel <rbridge-id number>/<slot number>/<port number> is link down.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified Fibre Channel interface has gone offline because the link is down.
<b>Recommended Action</b>	Check whether the connectivity is proper and the remote link is up.

## PORT-1016

<b>Message</b>	Interface Fibre Channel <rbridge-id number>/<slot number>/<port number> is administratively up.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the administrative status of the specified Fibre Channel interface has changed to up.
<b>Recommended Action</b>	No action is required.

## PORT-1017

<b>Message</b>	Interface Fibre Channel <rbridge-id number>/<slot number>/<port number> is administratively down.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the administrative status of the specified Fibre Channel interface has changed to down.
<b>Recommended Action</b>	No action is required.

## QOSD Messages

### QOSD-1000

<b>Message</b>	<code>QoS initialized successfully.</code>
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the Data Center Ethernet (DCE) QoS has been initialized.
<b>Recommended Action</b>	No action is required.

### QOSD-1001

<b>Message</b>	<code>Failed to allocate memory: (&lt;function name&gt;).</code>
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified function has failed to allocate memory.
<b>Recommended Action</b>	Check the memory usage on the switch using the <b>show process memory</b> command. Restart or power cycle the switch.

### QOSD-1005

<b>Message</b>	<code>QoS startup failed.</code>
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the Data Center Ethernet (DCE) QoS encountered an unexpected severe error during basic startup and initialization.
<b>Recommended Action</b>	Restart or power cycle the switch. If the problem persists, download a new firmware version using the <b>firmware download</b> command.

## QOSD-1006

<b>Message</b>	Interface is not allowed to come up as ISL because of Long Distance ISL restriction. Shutting down interface.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the interface could not come up as inter-switch link (ISL) because only regular ISL is allowed for 2 Km and 5 Km distant links. The interface has been automatically shut down.
<b>Recommended Action</b>	No action is required.

## QOSD-1007

<b>Message</b>	sFlow profile <sflow-profile-name> is not present.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified sFlow profile is not configured on the system.
<b>Recommended Action</b>	No action is required.

## QOSD-1500

<b>Message</b>	<BUM_protocol_name> traffic rate has been exceeded on interface <interface_name>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the broadcast, unknown unicast, and multicast (BUM) monitor routine has detected a rate violation.
<b>Recommended Action</b>	No action is required.



## QOSD-1501

<b>Message</b>	<BUM_protocol_name> traffic rate returned to conforming on interface <interface_name>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that broadcast, unknown unicast, and multicast (BUM) storm control has detected that the traffic rate has returned to the normal limit on the specified interface.
<b>Recommended Action</b>	No action is required.

## QOSD-1502

<b>Message</b>	<BUM_protocol_name> traffic rate has been exceeded interface <interface_name>. Interface will be shut down.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the broadcast, unknown unicast, and multicast (BUM) monitor routine has detected a rate violation. The interface has been shut down.
<b>Recommended Action</b>	Disable BUM storm control on the interface using the <b>no storm-control ingress</b> command; then re-enable the interface (using the <b>no shutdown</b> command) and BUM storm control (using the <b>storm-control ingress</b> command).

## RAS Messages

### RAS-1001

<b>Message</b>	First failure data capture (FFDC) event occurred.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a first failure data capture (FFDC) event occurred and the failure data has been captured.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

### RAS-1002

<b>Message</b>	First failure data capture (FFDC) reached maximum storage size (<log size limit> MB).
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the storage size for first failure data capture (FFDC) has reached the maximum.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

### RAS-1004

<b>Message</b>	Software 'verify' error detected.
<b>Message Type</b>	LOG   FFDC
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates an internal software error.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

## RAS-1005

<b>Message</b>	Software 'assert' error detected.
<b>Message Type</b>	LOG   FFDC
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates an internal software error.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

## RAS-1006

<b>Message</b>	Support data file (<Uploaded file name>) automatically transferred to remote address ' <Remote target designated by user> '.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the support data was automatically transferred from the switch to the configured remote server.
<b>Recommended Action</b>	No action is required.

## RAS-1007

<b>Message</b>	System is about to reload.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the system reload was initiated.
<b>Recommended Action</b>	No action is required.

## RAS-1008

<b>Message</b>	Software detected OOM: module id <Module id> failed to allocate <Memory size> byte(s) of memory.
<b>Message Type</b>	LOG   FFDC
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the system ran out of memory.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

## RAS-2001

<b>Message</b>	Audit message log is enabled.
<b>Message Type</b>	LOG   AUDIT
<b>Class</b>	RAS
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the audit message log has been enabled.
<b>Recommended Action</b>	No action is required.

## RAS-2002

<b>Message</b>	Audit message log is disabled.
<b>Message Type</b>	LOG   AUDIT
<b>Class</b>	RAS
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the audit message log has been disabled.
<b>Recommended Action</b>	No action is required.

## RAS-2003

<b>Message</b>	Audit message class configuration has been changed to <New audit class configuration>.
<b>Message Type</b>	LOG   AUDIT
<b>Class</b>	RAS
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the audit event class configuration has been changed.
<b>Recommended Action</b>	No action is required.

## RAS-2004

<b>Message</b>	<code>prom access is enabled.</code>
<b>Message Type</b>	LOG   AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the PROM access has been enabled.
<b>Recommended Action</b>	No action is required.

## RAS-2005

<b>Message</b>	<code>prom access is disabled.</code>
<b>Message Type</b>	LOG   AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the PROM access has been disabled.
<b>Recommended Action</b>	No action is required.

## RAS-3001

<b>Message</b>	USB storage device plug-in detected.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the USB storage device plug-in has been detected.
<b>Recommended Action</b>	No action is required.

## RAS-3002

<b>Message</b>	USB storage device enabled.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the USB storage device has been enabled.
<b>Recommended Action</b>	No action is required.

## RAS-3003

<b>Message</b>	USB storage device was unplugged before it was disabled.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the USB storage device was unplugged before it was disabled.
<b>Recommended Action</b>	No action is required. It is recommended to disable the USB storage device using the <b>usb off</b> command before unplugged it from the system.

## RAS-3004

<b>Message</b>	USB storage device disabled.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the USB storage device has been disabled.

**Recommended  
Action** No action is required.

## RAS-3005

**Message** File <filename/directory> removed from USB storage.

**Message Type** LOG

**Severity** INFO

**Probable Cause** Indicates that the specified file or directory has been removed from the USB storage.

**Recommended  
Action** No action is required.

## RCS Messages

### RCS-1003

<b>Message</b>	Failed to allocate memory: (<function name>).
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified reliable commit service (RCS) function has failed to allocate memory.
<b>Recommended Action</b>	This message is usually transitory. Wait for a few minutes and retry the command. Check memory usage on the switch using the <b>show process memory</b> command. Reload or power cycle the switch.

### RCS-1005

<b>Message</b>	Phase <RCS phase>, <Application Name> Application returned <Reject reason>, 0x<Reject code>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a receiving switch is rejecting the specified reliable commit service (RCS) phase.
<b>Recommended Action</b>	If the reject is in acquire change authorization (ACA) phase, wait for several minutes and retry the operation from the sender switch.  If the reject is in the stage fabric configuration (SFC) phase, check if the application license exists for the local RBridge and if the application data is compatible.

### RCS-1006

<b>Message</b>	State <RCS phase>, Application <Application Name> AD<Administrative RBridge>, RCS CM. RBridge <RBridge ID that sent the reject> returned 0x<Reject code>. App Response Code <Application Response Code>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified RBridge rejected the reliable commit service (RCS) phase initiated by an application on the local switch. <ul style="list-style-type: none"> <li>• If the reject phase is acquire change authorization (ACA), the remote RBridge may be busy and could not process the new request.</li> <li>• If the reject phase is stage fabric configuration (SFC), the data sent by the application may not be compatible or the RBridge does not have the license to support the specified application.</li> </ul>



<b>Recommended Action</b>	If the reject is in ACA phase, wait for several minutes and then retry operation.
	If the reject is in the SFC phase, check if the application license exists for the RBridge and if the application data is compatible.

## RCS-1007

<b>Message</b>	Zone DB size and propagation overhead exceeds RBridge <RBridge number>'s maximum supported Zone DB size <max zone DB size>. Retry after reducing Zone DB size.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified RBridge cannot handle the zone database being committed.
<b>Recommended Action</b>	Reduce the zone database size by deleting some zones. Refer to the <i>Network OS Administrator's Guide</i> for instructions to delete a zone.

## RCS-1008

<b>Message</b>	RBridge <RBridge number> Lowest Max Zone DB size.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified RBridge has the lowest memory available for the zone database in the fabric. The zone database must be smaller than the memory available on this RBridge.
<b>Recommended Action</b>	Reduce the zone database size by deleting some zones. Refer to the <i>Network OS Administrator's Guide</i> for instructions to delete a zone.

## RCS-1010

<b>Message</b>	RBridge <RBridge number> is RCS incapable. Disabled <Number of E_ports disabled> E_port(s) connected to this RBridge.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates inability to retrieve RCS-capable information for the specified RBridge due to some potential routing issues.
<b>Recommended Action</b>	Investigate for routing issue or check the cabling, and re-enable the disabled E_Ports to attempt another exchange of RCS-capable information.

## RCS-1011

<b>Message</b>	Remote RBridge <RBridge number> is RCS incapable. Configure this RBridge as RCS capable.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates inability to retrieve RCS-capable information for the specified RBridge due to some potential routing issues.
<b>Recommended Action</b>	Investigate for routing issue or check the cabling, and re-enable the disabled E_Ports to attempt another exchange of RCS-capable information.

## RTM Messages

### RTM-1001

<b>Message</b>	Initialization error: <message>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the route management (RTM) has encountered an error during initialization.
<b>Recommended Action</b>	Reload or power cycle the switch.

### RTM-1002

<b>Message</b>	Error: <message>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the route management (RTM) has reached its maximum capacity.
<b>Recommended Action</b>	Reduce the number of routes or next hops using the <b>clear ip route</b> command.

### RTM-1003

<b>Message</b>	Static Route Update error: <message>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that an error has occurred in the route management (RTM) during the static route update.
<b>Recommended Action</b>	Check the static route configuration using the <b>show ip static route</b> command.

## RTM-1005

<b>Message</b>	Protocol Route update error: <message>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that an error has occurred in the route management (RTM) during the protocol route update.
<b>Recommended Action</b>	Check the protocol statistics and configuration.

## RTM-1021

<b>Message</b>	Static route update success: <message>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the static route update was successful.
<b>Recommended Action</b>	No action is required.

## RTM-1022

<b>Message</b>	Clear Route success: <message>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that IP routes are cleared by the route management (RTM).
<b>Recommended Action</b>	No action is required.

## RTM-1023

<b>Message</b>	<message>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a route pointing to the management interface is not redistributed to other protocols.

**Recommended  
Action**      No action is required.

**RTM-1024**

**Message**      <message> .

**Message Type**      DCE

**Severity**      WARNING

**Probable Cause**      Indicates that ECMP is added with one or more paths through management interface and frontend interface.

**Recommended  
Action**      No action is required.

## RTWR Messages

### RTWR-1001

<b>Message</b>	RTWR <routine: error message> 0x<detail 1>, 0x<detail 2>, 0x<detail 3>, 0x<detail 4>, 0x<detail 5>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	<p>Indicates that an error occurred in Reliable Transport Write and Read (RTWR) due to one of the following reasons:</p> <ul style="list-style-type: none"> <li>• The system ran out of memory.</li> <li>• The domain may be unreachable.</li> <li>• The frame transmission failed.</li> <li>• An internal error or failure occurred.</li> </ul> <p>The message contains the name of the routine that has an error and other error-specific information. Refer to values in details 1 through 5 for more information.</p>
<b>Recommended Action</b>	Execute the <b>reload</b> command to restart the switch.

### RTWR-1002

<b>Message</b>	RTWR <error message: Maximum retries exhausted> 0x<port>, 0x<RBridge>, 0x<retry count>, 0x<status>, 0x<process ID>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that Reliable Transport Write and Read (RTWR) has exhausted the maximum number of retries for sending data to the specified RBridge.
<b>Recommended Action</b>	<p>Execute the <b>show fabric all</b> command to verify that the specified RBridge ID is online.</p> <p>If the switch with the specified RBridge ID is offline, enable the switch using the <b>chassis enable</b> command.</p> <p>If the message persists, execute the <b>copy support</b> command and contact your switch service provider.</p>

## RTWR-1003

<b>Message</b>	<module name>: RTWR retry <number of times retried> to RBridge <RBridge ID>, iu_data <first word of iu_data>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates the number of times Reliable Transport Write and Read (RTWR) has failed to get a response and retried.
<b>Recommended Action</b>	Execute the <b>show fabric all</b> command to verify that the specified RBridge ID is reachable. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## SCN Messages

### SCN-1001

<b>Message</b>	SCN queue overflow for process <daemon name>.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	<p>Indicates that an attempt to write a state change notification (SCN) message to a specific queue has failed because the SCN queue for the specified daemon is full. This may be caused by the daemon hanging or the system being busy.</p> <p>The following are some valid values for the <i>daemon name</i>:</p> <ul style="list-style-type: none"><li>• fabricd</li><li>• asd</li><li>• evmd</li><li>• fcpd</li><li>• webd</li><li>• msd</li><li>• nsd</li><li>• psd</li><li>• snmpd</li><li>• zoned</li><li>• fspfd</li><li>• tsd</li></ul>
<b>Recommended Action</b>	<p>If this message is caused by the system being busy, the condition is temporary.</p> <p>If this message is caused by a hung daemon, the software watchdog will cause the daemon to dump the core and reload the switch. In this case, execute the <b>copy support ftp</b> command to send the core files using FTP to a secure server location.</p> <p>If the message persists, execute the <b>copy support</b> command and contact your switch service provider.</p>



## SEC Messages

### SEC-1033

<b>Message</b>	Invalid character used in member parameter to add switch to SCC policy; command terminated.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that a member parameter in the <b>secpolicy defined-policy</b> command is invalid (for example, it may include an invalid character, such as an asterisk). A valid switch identifier (WWN, RBridge ID, or switch name) must be provided as a member parameter in the <b>secpolicy defined-policy</b> command.
<b>Recommended Action</b>	Execute the <b>secpolicy defined-policy</b> command using a valid switch identifier (WWN, RBridge ID, or switch name) to add specific switches to the switch connection control (SCC) policy.

### SEC-1034

<b>Message</b>	Invalid member <policy member>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the input list has an invalid member.
<b>Recommended Action</b>	Verify the member names and input the correct information.

### SEC-1036

<b>Message</b>	Device name <device name> is invalid due to a missing colon.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that one or more device names mentioned in the <b>secpolicy defined-policy</b> command does not have the colon character (:).
<b>Recommended Action</b>	Execute the <b>secpolicy defined-policy</b> command with a properly formatted device name parameter.

## SEC-1037

<b>Message</b>	Invalid WWN format <invalid WWN>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the World Wide Name (WWN) entered in the policy member list had an invalid format.
<b>Recommended Action</b>	Execute the command again using the standard WWN format, that is, 16 hexadecimal digits grouped as eight colon separated pairs. For example: 50:06:04:81:D6:F3:45:42.

## SEC-1038

<b>Message</b>	Invalid domain <RBridge ID>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that an invalid RBridge ID was entered.
<b>Recommended Action</b>	Verify that the RBridge ID is correct. If RBridge ID is not correct, execute the command again using the correct RBridge ID.

## SEC-1044

<b>Message</b>	Duplicate member <member ID> in (<List>).
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified member is a duplicate in the input list. The list can be a policy list or a switch member list.
<b>Recommended Action</b>	Do not specify any duplicate members.

## SEC-1071

<b>Message</b>	No new security policy data to apply.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that there are no changes in the defined security policy database to be activated.

**Recommended Action** Verify that the security event was planned. Change some policy definitions and execute the **secpolicy activate** command to activate the policies.

## SEC-1180

**Message** Added account <user name> with <role name> authorization.

**Message Type** LOG

**Severity** INFO

**Probable Cause** Indicates that the specified new account has been created.

**Recommended Action** No action is required.

## SEC-1181

**Message** Deleted account <user name>.

**Message Type** LOG

**Severity** INFO

**Probable Cause** Indicates that the specified account has been deleted.

**Recommended Action** No action is required.

## SEC-1184

**Message** <configuration> configuration change, action <action>, server ID <server>.

**Message Type** LOG

**Severity** INFO

**Probable Cause** Indicates that the specified action is applied to remote AAA (RADIUS/TACACS+) server configuration. The possible actions are ADD, REMOVE, CHANGE, and MOVE.

**Recommended Action** No action is required.

## SEC-1185

<b>Message</b>	<code>&lt;action&gt; switch DB.</code>
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the switch database was enabled or disabled as the secondary authentication, authorization, and accounting (AAA) mechanism when the remote authentication dial-in user service (RADIUS) or Lightweight Directory Access Protocol (LDAP) is the primary AAA mechanism.
<b>Recommended Action</b>	No action is required.

## SEC-1187

<b>Message</b>	<code>Security violation: Unauthorized switch &lt;switch WWN&gt; tries to join fabric.</code>
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a switch connection control (SCC) security violation was reported. The specified unauthorized switch attempts to join the fabric.
<b>Recommended Action</b>	Check the switch connection control policy (SCC) policy to verify the switches are allowed in the fabric. If the switch should be allowed in the fabric but it is not included in the SCC policy, add the switch to the policy using the <b>secpolicy defined-policy scc_policy member-entry</b> command. If the switch is not allowed access to the fabric, this is a valid violation message and an unauthorized entity is trying to access your fabric. Take appropriate action as defined by your enterprise security policy.

## SEC-1189

<b>Message</b>	<code>Security violation: Unauthorized host with IP address &lt;IP address&gt; tries to do SNMP write operation.</code>
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a Simple Network Management Protocol (SNMP) security violation was reported. The specified unauthorized host attempted to perform an SNMP write operation.
<b>Recommended Action</b>	Check the WSNMP policy (read/write SNMP policy) and verify which hosts are allowed access to the fabric through SNMP. If the host is allowed access to the fabric but is not included in the policy, add the host to the policy. If the host is not allowed access to the fabric, this is a valid violation message and an unauthorized entity is trying to access your fabric. Take appropriate action as defined by your enterprise security policy.

## SEC-1190

<b>Message</b>	Security violation: Unauthorized host with IP address <IP address> tries to do SNMP read operation.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a Simple Network Management Protocol (SNMP) security violation was reported. The specified unauthorized host attempted to perform an SNMP read operation.
<b>Recommended Action</b>	Check the RSNMP policy (read-only SNMP policy) to verify the hosts that are allowed access to the fabric through SNMP read operations are included in the RSNMP policy. If the host is allowed access but is not included in the RSNMP policy, add the host to the policy. If the host is not allowed access to the fabric, this is a valid violation message and an unauthorized entity is trying to access your fabric. Take appropriate action as defined by your enterprise security policy.

## SEC-1191

<b>Message</b>	Security violation: Unauthorized host with IP address <Ip address> tries to establish HTTP connection.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a Hypertext Transfer Protocol (HTTP) security violation was reported. The specified unauthorized host attempted to establish an HTTP connection.
<b>Recommended Action</b>	Determine whether the host IP address specified in the message can be used to manage the fabric through an HTTP connection. If so, add the host IP address to the HTTP policy of the fabric. If the host is not allowed access to the fabric, this is a valid violation message and an unauthorized entity is trying to access your fabric. Take appropriate action as defined by your enterprise security policy.

## SEC-1192

<b>Message</b>	Security violation: Login failure attempt via <connection method>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a serial or modem login security violation was reported. An incorrect password was used while trying to log in through a serial or modem connection; the log in failed.
<b>Recommended Action</b>	Use the correct password.

## SEC-1193

<b>Message</b>	Security violation: Login failure attempt via <connection method>. IP Addr: <IP address>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a login security violation was reported. The wrong password was used while trying to log in through the specified connection method; the log in failed. The violating IP address is displayed in the message.
<b>Recommended Action</b>	Verify that the specified IP address is being used by a valid switch administrator. Use the correct password.

## SEC-1197

<b>Message</b>	Changed account <user name>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified account has changed.
<b>Recommended Action</b>	No action is required.

## SEC-1199

<b>Message</b>	Security violation: Unauthorized access to serial port of switch <switch instance>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a serial connection policy security violation was reported. An attempt was made to access the serial console on the specified switch instance when it is disabled.
<b>Recommended Action</b>	Check to see if an authorized access attempt was made on the console. If so, add the switch World Wide Name (WWN) to the serial policy using the <b>secpolicy defined-policy scc_policy member-entry</b> command. If the host is not allowed access to the fabric, this is a valid violation message and an unauthorized entity is trying to access your fabric. Take appropriate action as defined by your enterprise security policy.

## SEC-1203

<b>Message</b>	Login information: Login successful via TELNET/SSH/RSH. IP Addr: <IP address>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the remote log in of the specified IP address was successful.
<b>Recommended Action</b>	No action is required.

## SEC-1307

<b>Message</b>	<RADIUS/TACACS+/LDAP server identity> server <server> authenticated user account '<username>'.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified AAA (RADIUS/TACACS+/LDAP) server responded to a switch request after some servers timed out.
<b>Recommended Action</b>	If the message appears frequently, reconfigure the list of servers so that the responding server is the first server on the list.

## SEC-1308

<b>Message</b>	All <RADIUS/TACACS+/LDAP server identity> servers failed to authenticate user account '<username>'.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that all servers in the remote AAA (RADIUS/TACACS+/LDAP) service configuration have failed to respond to a switch request within the configured timeout period.
<b>Recommended Action</b>	Verify that the switch has proper network connectivity to the specified AAA (RADIUS/TACACS+/LDAP) servers and the servers are correctly configured.

## SEC-1312

<b>Message</b>	<Message> .
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the password attributes have been changed.
<b>Recommended Action</b>	Verify that the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-1313

<b>Message</b>	The password attributes parameters were set to default values.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the password attributes were set to default values.
<b>Recommended Action</b>	Verify that the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-1325

<b>Message</b>	Security enforcement: Switch <switch WWN> connecting to port <Port number> is not authorized to stay in fabric.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified switch is being disabled on the specified port because of a switch connection control (SCC) policy violation.
<b>Recommended Action</b>	No action is required unless the switch must remain in the fabric. If the switch must remain in the fabric, add the switch World Wide Name (WWN) to the SCC policy using the <b>secpolicy defined-policy scc_policy member-entry</b> command, then attempt to join the switch with the fabric.



## SEC-1329

<b>Message</b>	IPFilter enforcement:Failed to enforce ipfilter policy of <Policy Type> type because of <Error code>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the IP filter policy enforcement failed because of an internal system failure.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

## SEC-1334

<b>Message</b>	local security policy <Event name>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified event has occurred.
<b>Recommended Action</b>	Verify that the event was planned. If the event was planned, no action is required. If the event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-1335

<b>Message</b>	local security policy <Event name> WWN <Member WWN>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified event has occurred.
<b>Recommended Action</b>	Verify that the event was planned. If the event was planned, no action is required. If the event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-1336

<b>Message</b>	Missing file <file name> is replaced with default configuration.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified file is missing and it has been replaced with the default file.

**Recommended Action** No action is required.

## SEC-1337

**Message** Failed to access file <file name> and reverted the configuration.

**Message Type** LOG

**Severity** INFO

**Probable Cause** Indicates that the specified file was not accessible.

**Recommended Action** No action is required.

## SEC-3014

**Message** Event: <Event Name>, Status: success, Info: <Event related info> <Event option> server <Server Name> for AAA services.

**Message Type** AUDIT

**Class** SECURITY

**Severity** INFO

**Probable Cause** Indicates that the AAA (RADIUS/TACACS+) server configuration has been changed manually.

**Recommended Action** Verify that the RADIUS/TACACS+ configuration was changed intentionally. If the RADIUS/TACACS+ configuration was changed intentionally, no action is required. If the RADIUS/TACACS+ configuration was not changed intentionally, take appropriate action as defined by your enterprise security policy.

## SEC-3016

**Message** Event: <Event Name>, Status: success, Info: Attribute [<Attribute Name>] of <Attribute related info> server <server ID> changed <Attribute related info, if any>.

**Message Type** AUDIT

**Class** SECURITY

**Severity** INFO

**Probable Cause** Indicates that the specified attribute of the remote AAA (RADIUS/TACACS+) server has been changed manually.

<b>Recommended Action</b>	Verify that the attribute was changed intentionally. If the attribute was changed intentionally, no action is required. If the attribute was not changed intentionally, take appropriate action as defined by your enterprise security policy.
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## SEC-3018

<b>Message</b>	Event: <Event Name>, Status: success, Info: Parameter [<Parameter Name>] changed from [<Old Value>] to [<New Value>].
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified password attribute has been changed.
<b>Recommended Action</b>	Verify that the password attribute was changed intentionally. If the password attribute was changed intentionally, no action is required. If the password attribute was not changed intentionally, take appropriate action as defined by your enterprise security policy.

## SEC-3019

<b>Message</b>	Event: <Event Name>, Status: success, Info: Password attributes set to default values.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the password attributes are set to default values.
<b>Recommended Action</b>	Verify that the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-3020

<b>Message</b>	Event: <Event Name>, Status: success, Info: Successful login attempt via <connection method and IP Address>.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the log in was successful. An IP address is displayed when the login occurs over a remote connection.

**Recommended Action** Verify that the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-3021

**Message** Event: <Event Name>, Status: failed, Info: Failed login attempt through <connection method and IP Address>.

**Message Type** AUDIT

**Class** SECURITY

**Severity** INFO

**Probable Cause** Indicates that the log in attempt has failed.

**Recommended Action** Verify that the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-3022

**Message** Event: <Event Name>, Status: success, Info: Successful logout by user [<User>].

**Message Type** AUDIT

**Class** SECURITY

**Severity** INFO

**Probable Cause** Indicates that the specified user has successfully logged out.

**Recommended Action** No action is required.

## SEC-3023

**Message** Event: <Event Name>, Status: failed, Info: Account [<User>] locked, failed password attempts exceeded.

**Message Type** AUDIT

**Class** SECURITY

**Severity** INFO

**Probable Cause** Indicates that the number of failed log in attempts due to incorrect password has exceeded the allowed limit; the account has been locked.

**Recommended Action** The administrator can manually unlock the account.

## SEC-3024

<b>Message</b>	Event: <Event Name>, Status: success, Info: User account [<User Name>], password changed.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the password was changed for the specified user.
<b>Recommended Action</b>	Verify that the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-3025

<b>Message</b>	Event: <Event Name>, Status: success, Info: User account [<User Name>] added. Role: [<Role Type>], Password [<Password Expired or not>], Home Context [<Home AD>], AD/VF list [<AD membership List>].
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a new user account was created.
<b>Recommended Action</b>	Verify that the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-3026

<b>Message</b>	Event: <Event Name>, Status: success, Info: User account [<User Name>], role changed from [<Old Role Type>] to [<New Role Type>].
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the user account role has been changed.
<b>Recommended Action</b>	Verify that the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-3027

<b>Message</b>	Event: <Event Name>, Status: success, Info: User account [<User Name>] [<Changed Attributes>].
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the user account properties were changed.
<b>Recommended Action</b>	Verify that the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-3028

<b>Message</b>	Event: <Event Name>, Status: success, Info: User account [<User Name>] deleted.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified user account has been deleted.
<b>Recommended Action</b>	Verify that the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-3030

<b>Message</b>	Event: <Event Name>, Status: success, Info: <Event Specific Info>.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the certificate authority (CA) certificate was imported successfully using the <b>certutil import ldapca</b> command.
<b>Recommended Action</b>	Verify that the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-3034

<b>Message</b>	Event: AAA Authentication Login Mode Configuration, Status: success, Info: Authentication configuration changed from <Previous Mode> to <Current Mode>.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the authentication configuration has been changed.
<b>Recommended Action</b>	Verify that the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-3035

<b>Message</b>	Event: ipfilter, Status: success, Info: <IP Filter Policy> ipfilter policy(ies) saved.
<b>Message Type</b>	AUDIT   LOG
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified IP filter policies have been saved.
<b>Recommended Action</b>	Verify that the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-3036

<b>Message</b>	Event: ipfilter, Status: failed, Info: Failed to save changes for <IP Filter Policy> ipfilter policy(s).
<b>Message Type</b>	AUDIT   LOG
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified IP filter policies have not been saved.
<b>Recommended Action</b>	Verify that the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-3037

<b>Message</b>	Event: ipfilter, Status: success, Info: <IP Filter Policy> ipfilter policy activated.
<b>Message Type</b>	AUDIT   LOG
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified IP filter policy has been activated.
<b>Recommended Action</b>	Verify that the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-3038

<b>Message</b>	Event: ipfilter, Status: failed, Info: Failed to activate <IP Filter Policy> ipfilter policy.
<b>Message Type</b>	AUDIT   LOG
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified IP filter policy failed to activate.
<b>Recommended Action</b>	Verify that the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-3039

<b>Message</b>	Event:Security Violation , Status: failed, Info: Unauthorized host with IP address <IP address of the violating host> tries to establish connection using <Protocol Connection Type>.
<b>Message Type</b>	AUDIT   LOG
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a security violation was reported. The IP address of the unauthorized host is displayed in the message.
<b>Recommended Action</b>	Check for unauthorized access to the switch through the specified protocol connection.



## SEC-3045

<b>Message</b>	Zeroization has been executed on the system.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the system has been zeroized.
<b>Recommended Action</b>	Verify the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-3046

<b>Message</b>	The FIPS Self Tests mode has been set to <Self Test Mode>.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that there was a change in the Federal Information Protection Standard (FIPS) self test mode.
<b>Recommended Action</b>	Verify the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-3049

<b>Message</b>	Status of bootprom access is changed using prom-access disable CLI: <Access Status>.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the status of Boot PROM has changed using <b>prom-access disable</b> command. By default, the Boot PROM is accessible.
<b>Recommended Action</b>	No action is required.

## SEC-3051

<b>Message</b>	The license key <Key> is <Action>.
<b>Message Type</b>	AUDIT   LOG
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified license key has been added or removed.
<b>Recommended Action</b>	No action is required.

## SEC-3061

<b>Message</b>	Role '<Role Name>' is created.
<b>Message Type</b>	AUDIT   LOG
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified role has been created.
<b>Recommended Action</b>	No action is required.

## SEC-3062

<b>Message</b>	Role '<Role Name>' is deleted.
<b>Message Type</b>	AUDIT   LOG
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified role has been deleted.
<b>Recommended Action</b>	No action is required.

## SEC-3067

<b>Message</b>	Event: <Event Name>, Status: success, Info: Telnet Server is shutdown.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the Telnet server in the switch is shut down.
<b>Recommended Action</b>	Verify that the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-3068

<b>Message</b>	Event: <Event Name>, Status: success, Info: Telnet Server is started.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the Telnet server in the switch is started.
<b>Recommended Action</b>	Verify that the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-3069

<b>Message</b>	Event: <Event Name>, Status: success, Info: SSH Server is shutdown.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the SSH server in the switch is shut down.
<b>Recommended Action</b>	Verify that the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-3070

<b>Message</b>	Event: <Event Name>, Status: success, Info: SSH Server is started.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the SSH server in the switch is started.
<b>Recommended Action</b>	Verify that the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-3071

<b>Message</b>	Event: <Event Name>, Status: success, Info: SSH Server Key Exchange Algorithm is configured to DH Group 14.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the SSH server key exchange algorithm is configured to DH group 14.
<b>Recommended Action</b>	Verify that the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-3072

<b>Message</b>	Event: <Event Name>, Status: success, Info: SSH Server Key Exchange Algorithm is restored to default.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the SSH server key exchange algorithm is restored to default.
<b>Recommended Action</b>	Verify that the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-3073

<b>Message</b>	Event: <Event Name>, Status: success, Info: Login banner message is set to '<Banner>'.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the login banner message is set.
<b>Recommended Action</b>	Verify that the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-3074

<b>Message</b>	Event: <Event Name>, Status: success, Info: Login banner message is removed.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the login banner message is removed.
<b>Recommended Action</b>	Verify that the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-3075

<b>Message</b>	Event: <Event Name>, Status: success, Info: '<Type of cipher (LDAP/SSH)>' cipher list is configured.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified Lightweight Directory Access Protocol (LDAP) or SSH cipher list is configured.
<b>Recommended Action</b>	Verify that the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-3076

<b>Message</b>	Event: <Event Name>, Status: success, Info: '<Type of cipher (LDAP/SSH)>' cipher list is removed.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified Lightweight Directory Access Protocol (LDAP) or SSH cipher list is removed.
<b>Recommended Action</b>	Verify that the security event was planned. If the security event was planned, no action is required. If the security event was not planned, take appropriate action as defined by your enterprise security policy.

## SEC-3501

<b>Message</b>	Role '<Role Name>' is changed.
<b>Message Type</b>	AUDIT   LOG
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that attributes of the specified role have been changed.
<b>Recommended Action</b>	No action is required.

## SFLO Messages

### SFLO-1001

<b>Message</b>	sFlow is <state> globally.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that sFlow is enabled or disabled globally.
<b>Recommended Action</b>	No action is required.

### SFLO-1002

<b>Message</b>	sFlow is <state> for port <name>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that sFlow is enabled or disabled on the specified port.
<b>Recommended Action</b>	No action is required.

### SFLO-1003

<b>Message</b>	Global sFlow sampling rate is changed to <sample_rate>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the global sFlow sampling rate has been changed to the specified value.
<b>Recommended Action</b>	No action is required.

**SFLO-1004**

<b>Message</b>	Global sFlow polling interval is changed to <polling_intvl>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the global counter sampling interval has been changed to the specified value.
<b>Recommended Action</b>	No action is required.

**SFLO-1005**

<b>Message</b>	sFlow sampling rate on port <name> is changed to <sample_rate>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the sFlow sampling rate has been changed on the specified port.
<b>Recommended Action</b>	No action is required.

**SFLO-1006**

<b>Message</b>	sFlow polling interval on port <name> is changed to <poling_intvl>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the sFlow polling interval has been changed on the specified port.
<b>Recommended Action</b>	No action is required.

**SFLO-1007**

<b>Message</b>	<name> is <state> as sFlow collector.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified sFlow collector is either configured or not configured.



**Recommended Action** No action is required.

## SFLO-1008

**Message** All the sFlow collectors are unconfigured.

**Message Type** DCE

**Severity** INFO

**Probable Cause** Indicates that none of the sFlow collectors are configured.

**Recommended Action** No action is required.

## SFLO-1009

**Message** Socket Operation Failed while connecting with the collector address.

**Message Type** DCE

**Severity** WARNING

**Probable Cause** Indicates that the connection to the sFlow collector server failed.

**Recommended Action** Reconfigure the sFlow collector using the **sflo collector** command.

## SFLO-1010

**Message** sFlow profile is created with name <name> and sampling rate <sample\_rate>.

**Message Type** DCE

**Severity** INFO

**Probable Cause** Indicates that the specified sFlow profile has been created.

**Recommended Action** No action is required.

## SFLO-1011

<b>Message</b>	sFlow profile with name <name> is deleted.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified sFlow profile has been deleted.
<b>Recommended Action</b>	No action is required.

## SFLO-1012

<b>Message</b>	sFlow profile with name <name> is updated with sampling rate <sample_rate>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the sampling rate has been updated for the specified sFlow profile.
<b>Recommended Action</b>	No action is required.

## SFLO-1013

<b>Message</b>	sFlow profile with name <name> is in use. Cannot be deleted.
<b>Message Type</b>	DCE
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the specified sFlow profile is in use and therefore it cannot be deleted.
<b>Recommended Action</b>	No action is required.

## SFLO-1014

<b>Message</b>	<message>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates the sFlow configuration details.

<b>Recommended Action</b>	No action is required.
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## SFLO-1015

<b>Message</b>	Max no. of profiles (<message>) already configured.
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<b>Message Type</b>	DCE
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<b>Severity</b>	INFO
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<b>Probable Cause</b>	Indicates the sFlow configuration details.
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<b>Recommended Action</b>	No action is required.
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## SLCD Messages

### SLCD-1001

<b>Message</b>	CF life percentage used up is between 90 - 95 on card No. <CF Card number in integer>, Actual percentage <life span of CF used up in percentage>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the compact flash (CF) life span left over is a little more than 5 percent as reported by the CF wear leveling statistics.
<b>Recommended Action</b>	The CF card must be replaced as soon as possible. Contact your switch service provider for the CF card replacement.

### SLCD-1002

<b>Message</b>	CF life span percentage is between 95 - 99 on card No. <CF Card number in integer>, Actual percentage <Life span used up on CF in percentage>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the compact flash (CF) life span left over is between 1 and 5 percent as reported by the CF wear leveling statistics.
<b>Recommended Action</b>	The CF card must be replaced immediately for proper functioning. Contact your switch service provider for the CF card replacement.

### SLCD-1003

<b>Message</b>	CF life span percentage left is less than 1 on card No. <CF Card number in integer>, Actual percentage <Life span used up on CF card in percentage>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the compact flash (CF) life span left over is less than 1 percent as reported by the CF wear leveling statistics.
<b>Recommended Action</b>	A new CF card is required for proper functioning of the chassis. Contact your switch service provider for the CF card replacement.

## SLCD-1004

<b>Message</b>	CF life span percentage left on Card No <CF Card number in integer> is - <Life span left on CF card in percentage>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates the available life span of the compact flash (CF) as reported by the CF wear leveling statistics.
<b>Recommended Action</b>	No action is required.

## SLCD-1005

<b>Message</b>	Spare Blocks percentage left on Card No. <CF Card number in integer> is between 5-10,Actual percentage is - <Spare Blocks left in percentage>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the spare blocks left on the compact flash (CF) card is between 5 and 10 percent as reported by the CF wear leveling statistics.
<b>Recommended Action</b>	The CF card must be replaced as soon as possible. Contact your switch service provider for the CF card replacement.

## SLCD-1006

<b>Message</b>	Spare Blocks percentage left on CF Card No. <CF Card number in integer> is between 1-5,Actual percentage is - <Spare Blocks left in percentage>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the spare blocks left on the compact flash (CF) card is between 1 and 5 percent as reported by the CF wear leveling statistics.
<b>Recommended Action</b>	The CF card must be replaced immediately for proper functioning. Contact your switch service provider for the CF card replacement.

**SLCD-1007**

<b>Message</b>	Spare Blocks percentage left on CF Card No. <CF Card number in integer> are less than 1,Actual percentage is - <Spare Blocks left in percentage>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the spare blocks left on the compact flash (CF) card is less than 1 percent as reported by the CF wear leveling statistics.
<b>Recommended Action</b>	A new CF card is required for proper functioning of the chassis. Contact your switch service provider for the CF card replacement.

**SLCD-1008**

<b>Message</b>	Spare Blocks percentage left on CF Card No. <CF Card number in integer> are - <Spare Blocks left in percentage>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates the percentage of the spare blocks left on the compact flash (CF) card as reported by the CF wear leveling statistics.
<b>Recommended Action</b>	No action is required.

**SLCD-1009**

<b>Message</b>	Unable to get Wear leveling stats for CF card No. <CF Card number in integer>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that wear leveling data cannot be retrieved from the attached compact flash (CF) card.
<b>Recommended Action</b>	Check the availability and healthiness of the CF card immediately for proper functioning.

## SLCD-1010

<b>Message</b>	CF wear leveling daemon Failed to find any western digital (WD) CF cards attached.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates an error in enumerating the attached compact flash (CF) cards.
<b>Recommended Action</b>	Check the availability and connection to the CF cards immediately for proper functioning.

## SLCD-1011

<b>Message</b>	CF life percentage used for card No. <CF Card number in integer> is <life span of CF used up in percentage>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates the used life span of the compact flash (CF) card as reported by the CF wear leveling statistics.
<b>Recommended Action</b>	No action is required.

## SNMP Messages

### SNMP-1001

<b>Message</b>	SNMP service is not available <Reason>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the Simple Network Management Protocol (SNMP) service could not be started because of the specified reason. You will not be able to query the switch through SNMP.
<b>Recommended Action</b>	Verify that the IP address for the Ethernet and Fibre Channel interface is set correctly using the <b>show interface management</b> command. If the specified reason is an initialization failure, reload the switch.

### SNMP-1002

<b>Message</b>	SNMP <Error Details> initialization failed.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the initialization of the Simple Network Management Protocol (SNMP) service failed and you will not be able to query the switch through SNMP.
<b>Recommended Action</b>	Reload or power cycle the switch. This will automatically initialize SNMP.

### SNMP-1003

<b>Message</b>	Distribution of Community Strings to Secure Fabric failed.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the changes in the Simple Network Management Protocol (SNMP) community strings could not be propagated to other switches in the secure fabric.
<b>Recommended Action</b>	Retry changing the SNMP community strings on the primary switch using the <b>snmp-server community</b> command.



## SNMP-1004

<b>Message</b>	Incorrect SNMP configuration.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the Simple Network Management Protocol (SNMP) configuration is incorrect and the SNMP service will not work correctly.
<b>Recommended Action</b>	Change the SNMP configuration using the <b>config snmp-server</b> command.

## SNMP-1005

<b>Message</b>	SNMP configuration attribute, <Changed attribute>, <String Value>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the Simple Network Management Protocol (SNMP) configuration has changed. The parameter that was modified is displayed along with the old and new values of that parameter.
<b>Recommended Action</b>	Execute the <b>show running-config snmp-server</b> command to view the new SNMP configuration.

## SS Messages

### SS-1000

<b>Message</b>	Copy support upload operation is completed.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the <b>copy support</b> command was used to transfer the support information to a remote location.
<b>Recommended Action</b>	No action is required.

### SS-1001

<b>Message</b>	Copy support upload operation has been aborted.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	<p>Indicates that a file copy error occurred during execution of the <b>copy support</b> command. Complete error information cannot always be displayed in this message because of possible errors in the subcommands being executed by the <b>copy support</b> command.</p> <p>The file copy error can occur due to one of the following reasons:</p> <ul style="list-style-type: none"> <li>• Could not connect to remote host</li> <li>• Could not connect to remote host - timed out</li> <li>• Transfer failed</li> <li>• Transfer failed - timed out</li> <li>• Directory change failed</li> <li>• Directory change failed - timed out</li> <li>• Malformed URL</li> <li>• Usage error</li> <li>• Error in login configuration file</li> <li>• Session initialization failed</li> <li>• Unknown remote host error</li> </ul>
<b>Recommended Action</b>	<p>Check and correct the remote server settings and configuration and then execute the <b>copy support</b> command again.</p> <p>If the problem persists, contact your system administrator.</p>

## SS-1002

<b>Message</b>	Copy support has stored support information to the USB storage device.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the <b>copy support</b> command was used to transfer support information to an attached USB storage device.
<b>Recommended Action</b>	No action is required.

## SS-1003

<b>Message</b>	Copy support operation to USB storage device aborted.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that a USB operation error occurred during execution of the <b>copy support</b> command. Complete error information cannot always be displayed in this message because of possible errors in subcommands being executed by the <b>copy support</b> command.
<b>Recommended Action</b>	Make sure that the attached USB device is enabled. Execute the <b>usb on</b> command to enable an attached USB device. After the USB problem is corrected, execute the <b>copy support</b> command again.

## SS-1004

<b>Message</b>	One or more modules timed out during copy support. Retry copy support with timeout option to collect all modules.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates timeout in modules during execution of the <b>copy support</b> command.
<b>Recommended Action</b>	Execute the <b>copy support</b> command again.

## SS-1010

<b>Message</b>	Copy support timeout multiplier is set to <Timeout Multiplier> due to higher CPU load average. Copy support may take more time to complete.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the CPU load average is above normal. The copy support operation may take longer time than usual.
<b>Recommended Action</b>	No action is required.

## SS-1011

<b>Message</b>	Copy support upload operation failed. Reason: <Failure reason>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	<p>Indicates that a file copy error occurred during execution of the <b>copy support</b> command. The file copy error can occur due to one of the following reasons:</p> <ul style="list-style-type: none"> <li>• Could not connect to remote host</li> <li>• Could not connect to remote host - timed out</li> <li>• Transfer failed</li> <li>• Transfer failed - timed out</li> <li>• Directory change failed</li> <li>• Directory change failed - timed out</li> <li>• Malformed URL</li> <li>• Usage error</li> <li>• Error in login configuration file</li> <li>• Session initialization failed</li> <li>• Unknown remote host error</li> </ul>
<b>Recommended Action</b>	<p>Check and correct the remote server settings and configuration and then execute the <b>copy support</b> command again.</p> <p>If the problem persists, contact your system administrator.</p>

## SS-1012

<b>Message</b>	Copy support upload Operation started.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the copy support upload operation has started.
<b>Recommended Action</b>	No action is required.

## SS-2000

<b>Message</b>	Copy support started on rbridge-id <rbridge-id>.
<b>Message Type</b>	VCS   LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the copy support operation has started on the specified RBridge.
<b>Recommended Action</b>	No action is required.

## SS-2001

<b>Message</b>	Copy support completed on rbridge-id <rbridge-id>.
<b>Message Type</b>	VCS   LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the copy support operation has completed successfully on the specified RBridge.
<b>Recommended Action</b>	No action is required.

## SS-2002

<b>Message</b>	Copy support failed on rbridge-id <rbridge-id>.
<b>Message Type</b>	VCS   LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the copy support operation has failed on the specified RBridge.

**Recommended Action** Check and correct the remote server settings and configuration and then execute the **copy support** command again.  
If the problem persists, contact your system administrator.

## SSMD Messages

### SSMD-1001

<b>Message</b>	Failed to allocate memory: (<function name>).
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified function has failed to allocate memory.
<b>Recommended Action</b>	Check the memory usage on the switch using the <b>show process memory</b> command. Reload or power cycle the switch.

### SSMD-1002

<b>Message</b>	Failed to <Operation> module <module>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that initialization or starting of a module within the system services manager (SSM) has failed.
<b>Recommended Action</b>	Reload the switch. If the problem persists, download a new firmware version using the <b>firmware download</b> command.

### SSMD-1003

<b>Message</b>	Failed to lock semaphore mutex: (<function name>).
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified function has failed to lock the mutex (semaphore).
<b>Recommended Action</b>	Reload or power cycle the switch.

## SSMD-1004

<b>Message</b>	Failed to unlock semaphore mutex: (<function name>).
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified function has failed to unlock the mutex (semaphore).
<b>Recommended Action</b>	Reload or power cycle the switch.

## SSMD-1005

<b>Message</b>	SSM startup failed.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the Data Center Ethernet (DCE) System Services Manager (SSM) has encountered an unexpected severe error during basic startup and initialization.
<b>Recommended Action</b>	Reload or power cycle the switch. If the problem persists, download a new firmware version using the <b>firmware download</b> command.

## SSMD-1006

<b>Message</b>	SSM ASIC download buffer overflow (size <required buffer size> > max <max buffer size>) in function <function name>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the Data Center Ethernet (DCE) System Services Manager (SSM) has encountered an unexpected severe error when fill in the I/O control (IOCTL) structure.
<b>Recommended Action</b>	Reload or power cycle the switch. If the problem persists, download a new firmware version using the <b>firmware download</b> command.



## SSMD-1007

<b>Message</b>	Error:<function name>: <error message>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the Data Center Ethernet (DCE) System Services Manager (SSM) has encountered an error.
<b>Recommended Action</b>	Reload or power cycle the switch. If the problem persists, download a new firmware version using the <b>firmware download</b> command.

## SSMD-1008

<b>Message</b>	Error accounting <memory operation> memory for memory type <memory type>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates an error in accounting the memory operation.
<b>Recommended Action</b>	Reload or power cycle the switch.

## SSMD-1400

<b>Message</b>	<ACL Type> access list <ACL Name> is created.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified access list has been created.
<b>Recommended Action</b>	No action is required.

## SSMD-1401

<b>Message</b>	<ACL Type> access list <ACL Name> is recorded.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified access list type and name has been recorded as a reference for ACL binding in the future.
<b>Recommended Action</b>	No action is required.

## SSMD-1402

<b>Message</b>	<ACL Type> access list <ACL Name> is deleted.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified access list has been deleted.
<b>Recommended Action</b>	No action is required.

## SSMD-1403

<b>Message</b>	<ACL Type> access list <ACL Name> record is deleted.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the access list name and type recorded for bind forward reference has been deleted.
<b>Recommended Action</b>	No action is required.

## SSMD-1404

<b>Message</b>	<ACL Type> access list <ACL Name> rule sequence number <rule_sq_no> is <action>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the access list rules are added to or removed from an existing policy.

**Recommended Action** No action is required.

## SSMD-1405

**Message** <ACL Type> access list <ACL Name> configured on interface <Interface Name> at <Direction> by <Configuration source>.

**Message Type** DCE

**Severity** INFO

**Probable Cause** Indicates that the specified access list has been configured on the interface.

**Recommended Action** No action is required.

## SSMD-1406

**Message** <ACL Type> access list <ACL Name> is removed from interface <Interface Name> at <Direction> by <Configuration source>.

**Message Type** DCE

**Severity** INFO

**Probable Cause** Indicates that the specified access list has been removed from the interface.

**Recommended Action** No action is required.

## SSMD-1407

**Message** <ACL Type> access list <ACL Name> active on interface <Interface Name> at <Direction>.

**Message Type** DCE

**Severity** INFO

**Probable Cause** Indicates that the specified access list has been configured on the interface.

**Recommended Action** No action is required.

## SSMD-1408

<b>Message</b>	<Number of ACL Rules> rules added to <ACL Type> access list <ACL Name>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified rules are added to the access control list (ACL).
<b>Recommended Action</b>	No action is required.

## SSMD-1436

<b>Message</b>	<ACL Type> access list <ACL Name> partially active on interface <Interface Name> at <Direction>.
<b>Message Type</b>	DCE
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the specified access control list (ACL) was not fully instantiated into the ternary content addressable memory (TCAM).
<b>Recommended Action</b>	Remove the specified ACL and other unused ACLs that are applied using the <b>no ip access-group name [in   out]</b> command, and then instantiate ACL into TCAM again.

## SSMD-1437

<b>Message</b>	<ACL Type> access list <ACL Name> inactive on interface <Interface Name> at <Direction>.
<b>Message Type</b>	DCE
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates the specified access control list (ACL) was not instantiated into the ternary content addressable memory (TCAM).
<b>Recommended Action</b>	Remove the specified ACL and other unused ACLs that are applied using the <b>no ip access-group name [in   out]</b> command, and then instantiate ACL into TCAM again.

## SSMD-1438

<b>Message</b>	<ACL Type> access list <ACL Name> configured on interface <Interface Name> at <Direction> has rule(s) which are not supported on this platform.
<b>Message Type</b>	DCE
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the specified access control list (ACL) has rules which are not supported on this platform.
<b>Recommended Action</b>	Remove unsupported rules using the <b>no seq 0-4294967290</b> command in the ACL context.

## SSMD-1439

<b>Message</b>	Rule with sequence number <ACL Rule Sequence number> of <ACL Type> access list <ACL Name> configured on interface <Interface Name> at <Direction> is not supported on this platform.
<b>Message Type</b>	DCE
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the specified access control list (ACL) has rules which are not supported on this platform.
<b>Recommended Action</b>	Remove unsupported rules using the <b>no seq 0-4294967290</b> command in the ACL context.

## SSMD-1471

<b>Message</b>	ACL configuration out of sync with manager for ACL <ACL Name>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that an access control list (ACL)-related action has been performed on a line card but the specified ACL is not present in the line card local database.
<b>Recommended Action</b>	Collect support data using the <b>copy support</b> command and then reset the line card.

## SSMD-1500

<b>Message</b>	<Feature Name> TCAM region usage on chip <Slot number>/<Chip Number> is below <Usage percentage> percent.
<b>Message Type</b>	DCE
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that ternary content addressable memory (TCAM) usage on the chip is below threshold.
<b>Recommended Action</b>	TCAM is full and therefore clear some of the entries or do not add entries.

## SSMD-1536

<b>Message</b>	<Feature Name> TCAM region usage on chip <Slot number>/<Chip Number> is above <Usage percentage> percent.
<b>Message Type</b>	DCE
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the access control list (ACL), which is bound to interfaces is consuming ternary content addressable memory (TCAM) entries in the hardware.
<b>Recommended Action</b>	Remove ACLs that are not required using the <b>ip access-list</b> command.

## SSMD-1537

<b>Message</b>	<Feature Name> TCAM region on chip <Slot number>/<Chip Number> is <Usage percentage> percent full.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the access control list (ACL), which is bound to interfaces is consuming ternary content addressable memory (TCAM) entries in the hardware.
<b>Recommended Action</b>	Remove ACLs that are not required using the <b>ip access-list</b> command.

## SSMD-1571

<b>Message</b>	Error <Error code> Creating region Feature:<Logical Device ID> Region:<Region ID> Chip:0x<Chip Index>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the application-specific integrated circuit (ASIC) driver has returned an error.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

## SSMD-1750

<b>Message</b>	Route Map <Route_map_name> is bound on interface <interface_name>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified route map has been applied to the specified interface.
<b>Recommended Action</b>	No action is required.

## SSMD-1752

<b>Message</b>	Route Map <Route_map_name> is unbound from interface <interface_name>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified route map has been removed from the specified interface.
<b>Recommended Action</b>	No action is required.

## SSMD-1900

<b>Message</b>	Security sub-profile is created for port-profile <Profile name>.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a security sub-profile has been created for the specified port-profile.

**Recommended Action** No action is required.

## SSMD-1901

**Message** ACL <ACL name> is configured successfully for security sub-profile of port-profile <Profile name>.

**Message Type** DCE

**Severity** INFO

**Probable Cause** Indicates that the specified access control list (ACL) has been configured for the security sub-profile.

**Recommended Action** No action is required.

## SSMD-1902

**Message** ACL <ACL name> is removed successfully for security sub-profile of port-profile <Profile name>.

**Message Type** DCE

**Severity** INFO

**Probable Cause** Indicates that the specified access control list (ACL) has been removed from the security sub-profile.

**Recommended Action** No action is required.

## SSMD-1915

**Message** Security sub-profile is deleted for port-profile <Profile name>.

**Message Type** DCE

**Severity** INFO

**Probable Cause** Indicates that the security sub-profile has been deleted.

**Recommended Action** No action is required.



## SULB Messages

### SULB-1100

<b>Message</b>	Firmware <firmware operations: install, swap, reboot, commit, recover> begins on <slot/partition>.
<b>Message Type</b>	AUDIT   LOG
<b>Class</b>	FIRMWARE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified firmware operation has started on the specified slot or partition.
<b>Recommended Action</b>	No action is required.

### SULB-1101

<b>Message</b>	Firmware <firmware operations: install, swap, reboot, commit, recover> ends on <slot/partition>.
<b>Message Type</b>	AUDIT   LOG
<b>Class</b>	FIRMWARE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified firmware operation has completed successfully on the specified slot or partition.
<b>Recommended Action</b>	No action is required.

### SULB-1102

<b>Message</b>	Firmware <firmware operations: install, swap, reboot, commit, recover> failed on <slot/partition> with error (<error code>).
<b>Message Type</b>	AUDIT   LOG
<b>Class</b>	FIRMWARE
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the specified firmware operation has failed on the specified slot or partition. The error code indicates the reason for the failure.

The following table lists the error codes that provide more details on why the firmware operation failed.

**TABLE 9** Error messages and error codes

Error message	Error code
"Upgrade is inconsistent."	0x10
"OSRootPartition is inconsistent."	0x11
"Unable to access the package list file. Check whether the file name is specified properly."	0x12
"Red Hat package manager (RPM) package database is inconsistent. Contact your service provider for recovery."	0x13
"Out of memory."	0x14
"Failed to download RPM package. Check if the firmware image is accessible."	0x15
"Unable to create firmware version file."	0x16
"Unexpected system error."	0x17
"Another firmware download is in progress."	0x18
"Error in releasing lock device."	0x19
" <b>firmware commit</b> failed."	0x1a
"Firmware directory structure is not compatible. Check whether the firmware is supported on this platform."	0x1b
"Failed to load the Linux kernel image. Contact your service provider to assistance."	0x1c
"OSLoader is inconsistent."	0x1d
"New image has not been committed. Execute the <b>firmware commit</b> command or the <b>firmware restore</b> and <b>firmware download</b> commands."	0x1e
" <b>firmware restore</b> is not needed."	0x1f
"Images are not mounted properly."	0x20
"Unable to uninstall old packages. Contact your service provider for assistance."	0x21
" <b>firmware download</b> has timed out."	0x23
"Out of disk space."	0x24
"Primary filesystem is inconsistent. Execute the <b>firmware restore</b> to restore the original firmware, or contact your service provider for recovery."	0x25
"The post-install script failed."	0x26
"Reload (partition) failed."	0x27
"Primary kernel partition is inconsistent. Contact your service provider for recovery."	0x28
"The pre-install script failed."	0x29
"Failed to install RPM package."	0x2b
"Cannot downgrade directly to this version. Downgrade to an intermediate version and then download the desired version."	0x2c
"Failed to validate firmware signature."	0x3e
"Failed to swap the firmware partitions."	0x40
"Failed to load the PROM image. Contact your service provider for assistance."	0x41

**Recommended Action** Execute the **show firmwaredownloadstatus** command for more information. Restart the firmware operation if needed.

## SULB-1103

**Message** Firmware download completed successfully on <slot/partition>.

**Message Type** AUDIT | LOG

**Class** FIRMWARE

**Severity** INFO

**Probable Cause** Indicates that firmware download has completed successfully on the specified slot or partition.

**Recommended Action** No action is required.  
Execute the **show firmwaredownloadstatus** command for more information. Execute the **show version** to verify the firmware version.

## SULB-1104

**Message** Firmware download failed on <slot/partition> with error (<error code>).

**Message Type** AUDIT | LOG

**Class** FIRMWARE

**Severity** CRITICAL

**Probable Cause** Indicates that firmware download has failed on the specified slot. The error code indicates the reason for the failure.

The following table lists the error codes that provide more details on why the firmware operation failed.

**TABLE 10** Error messages and error codes

Error message	Error code
"Upgrade is inconsistent."	0x10
"OSRootPartition is inconsistent."	0x11
"Unable to access the package list file. Check whether the file name is specified properly."	0x12
"Red Hat package manager (RPM) package database is inconsistent. Contact your service provider for recovery."	0x13
"Out of memory."	0x14
"Failed to download RPM package. Check if the firmware image is accessible."	0x15
"Unable to create firmware version file."	0x16
"Unexpected system error."	0x17
"Another firmware download is in progress."	0x18

**TABLE 10** Error messages and error codes (Continued)

Error message	Error code
"Error in releasing lock device."	0x19
" <b>firmware commit</b> failed."	0x1a
"Firmware directory structure is not compatible. Check whether the firmware is supported on this platform."	0x1b
"Failed to load the Linux kernel image. Contact your service provider to assistance."	0x1c
"OSLoader is inconsistent."	0x1d
"New image has not been committed. Execute the <b>firmware commit</b> command or the <b>firmware restore</b> and <b>firmware download</b> commands."	0x1e
" <b>firmware restore</b> is not needed."	0x1f
"Images are not mounted properly."	0x20
"Unable to uninstall old packages. Contact your service provider for assistance."	0x21
" <b>firmware download</b> has timed out."	0x23
"Out of disk space."	0x24
"Primary filesystem is inconsistent. Execute the <b>firmware restore</b> to restore the original firmware, or contact your service provider for recovery."	0x25
"The post-install script failed."	0x26
"Reload (partition) failed."	0x27
"Primary kernel partition is inconsistent. Contact your service provider for recovery."	0x28
"The pre-install script failed."	0x29
"Failed to install RPM package."	0x2b
"Cannot downgrade directly to this version. Downgrade to an intermediate version and then download the desired version."	0x2c
"Failed to validate firmware signature."	0x3e
"Failed to swap the firmware partitions."	0x40
"Failed to load the PROM image. Contact your service provider for assistance."	0x41

**Recommended Action** Execute the **show firmwaredownloadstatus** command for more information. Execute the **power-off** and **power-on** commands on the slot for recovery.

## SULB-1105

**Message** Firmware upgrade session (<session ID>: <session subject>) starts.

**Message Type** AUDIT | LOG | VCS

**Class** FIRMWARE

**Severity** WARNING

**Probable Cause** Indicates that firmware upgrade has started.

**Recommended Action** No action is required.

## SULB-1106

**Message** `Firmware upgrade session (<session ID>: <session subject>) completes.`

**Message Type** AUDIT | LOG | VCS

**Class** FIRMWARE

**Severity** WARNING

**Probable Cause** Indicates that firmware upgrade has completed successfully.

**Recommended Action** Execute the **show firmwaredownloadstatus** command for more information.

## SULB-1107

**Message** `Firmware upgrade session (<session ID>: <session subject>) failed but recovered.`

**Message Type** LOG | VCS

**Severity** WARNING

**Probable Cause** Indicates that firmware upgrade has failed but was recovered.

**Recommended Action** Execute the **show firmwaredownloadstatus** command for more information. Execute the **firmware download** command again if needed.

## SULB-1108

**Message** `Firmware upgrade session (<session ID>: <session subject>) failed.`

**Message Type** LOG | VCS

**Severity** CRITICAL

**Probable Cause** Indicates that firmware upgrade has failed.

**Recommended Action** Execute the **show firmwaredownloadstatus** command for more information. Execute the **firmware download** command again if needed.

## SULB-1109

<b>Message</b>	Firmware upgrade session (<session ID>: <session subject>) aborted.
<b>Message Type</b>	LOG   VCS
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that firmware upgrade has been aborted.
<b>Recommended Action</b>	Execute the <b>firmware download</b> command again if needed.

## SULB-1110

<b>Message</b>	Firmware upgrade session (<session ID>: <session subject>) has completed the installation successfully.
<b>Message Type</b>	LOG   VCS
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that firmware upgrade has completed.
<b>Recommended Action</b>	No action is required.

## SULB-1111

<b>Message</b>	Logical chassis firmware download begins on rbridge-id <rbridge IDs>.
<b>Message Type</b>	LOG   VCS
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that firmware upgrade has started.
<b>Recommended Action</b>	No action is required.

## SULB-1112

<b>Message</b>	Logical chassis firmware download has completed installation on rbridge-id <rbridge IDs>.
<b>Message Type</b>	LOG   VCS
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that firmware upgrade has completed successfully.
<b>Recommended Action</b>	No action is required.

## SULB-1113

<b>Message</b>	Logical chassis firmware download will be aborted due to failover on rbridge-id <rbridge IDs>.
<b>Message Type</b>	LOG   VCS
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that firmware upgrade failed.
<b>Recommended Action</b>	Execute the <b>firmware recover</b> or <b>firmware activate</b> command.

## SULB-1114

<b>Message</b>	Firmware installation has completed successfully on rbridge-id <rbridge IDs>. Please run 'firmware activate' for firmware activation.
<b>Message Type</b>	LOG   VCS
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that firmware upgrade has completed.
<b>Recommended Action</b>	Execute the <b>firmware activate</b> command to activate the firmware.

## SULB-1200

<b>Message</b>	Logical-chassis Firmware Auto-upgrade has started on remote node <rbridge id>.
<b>Message Type</b>	LOG   VCS
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that firmware auto-upgrade on a remote node has started.
<b>Recommended Action</b>	No action is required.

## SULB-1201

<b>Message</b>	Logical-chassis Firmware Auto-upgrade is in progress on remote node <rbridge id>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that firmware auto-upgrade on a remote node is in progress.
<b>Recommended Action</b>	No action is required.

## SULB-1202

<b>Message</b>	Logical-chassis Firmware Auto-upgrade failed on remote node <rbridge id>.
<b>Message Type</b>	LOG   VCS
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that firmware auto-upgrade failed on the remote node.
<b>Recommended Action</b>	No action is required.

## SULB-1203

<b>Message</b>	Logical-chassis Firmware download completed on remote node <rbridge id>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that firmware download has completed on the remote node.



<b>Recommended Action</b>	No action is required.
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## SWCH Messages

### SWCH-1001

<b>Message</b>	Switch is not in ready state - Switch enable failed switch status= 0x<switch status>, c_flags = 0x<switch control flags>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates failure to enable the switch because it is not in the ready state.
<b>Recommended Action</b>	If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

### SWCH-1002

<b>Message</b>	Security violation: Unauthorized device <wwn name of device> tries to flogin to port <port number>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified device is not present in the authorized profile list.
<b>Recommended Action</b>	Verify that the device is authorized to log in to the switch. If the device is authorized, execute the <b>show secpolicy</b> command to verify whether the specified device World Wide Name (WWN) is listed. If it is not listed, execute the <b>secpolicy defined-policy</b> command to add this device to an existing policy.

### SWCH-1003

<b>Message</b>	Slot ENABLED but Not Ready during recovery, disabling slot = <slot number>(<return value>).
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the slot state has been detected as inconsistent during failover or recovery.
<b>Recommended Action</b>	For a modular switch, execute the <b>power-off</b> and <b>power-on</b> commands to power cycle the interface module. For a compact switch, reload or power cycle the switch.

## SWCH-1004

<b>Message</b>	Interface module attach failed during recovery, disabling slot = <slot number>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified interface module has failed during failover or recovery.
<b>Recommended Action</b>	For a modular switch, execute the <b>power-off</b> and <b>power-on</b> commands to power cycle the interface module. For a compact switch, reload or power cycle the switch.

## SWCH-1005

<b>Message</b>	Diag attach failed during recovery, disabling slot = <slot number>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the diagnostic interface module attach operation has failed during failover or recovery.
<b>Recommended Action</b>	For a modular switch, execute the <b>power-off</b> and <b>power-on</b> commands to power cycle the interface module. For a compact switch, reload or power cycle the switch.

## SWCH-1007

<b>Message</b>	Switch port <port number> disabled due to \"<disable reason>\".
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the specified switch port is disabled due to the reason displayed in the message.
<b>Recommended Action</b>	Take corrective action to restore the port based on the disable reason displayed in the message and then execute the <b>shutdown</b> and <b>no shutdown</b> commands.

## SWCH-1021

<b>Message</b>	HA state out of sync: Standby MM (ver = <standby SWC version>) does not support Dynamic area on default switch (Active MM version = <active SWC version>).
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the standby management module does not support the dynamic area on the default switch.
<b>Recommended Action</b>	Load a firmware version in which the standby management module supports the dynamic area on the default switch using the <b>firmware download</b> command.

## TOAM Messages

### TOAM-1000

<b>Message</b>	Cannot run this command because VCS is disabled.
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates inability to run the TRILL OAM (TOAM) commands because VCS is disabled.
<b>Recommended Action</b>	To run the TOAM commands, enable VCS using the <b>vcs enable</b> command.

### TOAM-1003

<b>Message</b>	Initilization error: <reason>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that TRILL OAM (TOAM) has encountered an error during initialization.
<b>Recommended Action</b>	Reload or power cycle the switch.

## TRCE Messages

### TRCE-1002

<b>Message</b>	Trace dump<optional slot indicating on which slot the dump occurs> automatically transferred to address ' <FTP target designated by user> '.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a trace dump has occurred on the switch or the specified slot, and the trace dump files were automatically transferred from the switch to the specified FTP server.
<b>Recommended Action</b>	No action is required.

### TRCE-1003

<b>Message</b>	Trace dump<optional slot indicating on which slot the dump occurs> was not transferred due to FTP error.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that a trace dump has occurred on the switch or the specified slot, but the trace dump files were not automatically transferred from the switch due to reasons such as an FTP error, wrong FTP address, FTP site is down, and network is down.
<b>Recommended Action</b>	If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

### TRCE-1005

<b>Message</b>	FTP Connectivity Test failed due to error.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the connectivity test to the FTP host failed because of reasons such as a wrong FTP address, FTP site is down, or network is down.
<b>Recommended Action</b>	Execute the <b>copy support</b> command and contact your switch service provider.

## TRCE-1006

<b>Message</b>	FTP Connectivity Test succeeded to FTP site ' <FTP target configured by users> '.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a connectivity test to the FTP host has succeeded.
<b>Recommended Action</b>	No action is required.

## TRCE-1007

<b>Message</b>	Notification of this MM has failed. Parameters temporarily out of sync with other MM.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the active management module was unable to alert the standby management module of a change in the trace status. This message is only applicable to modular switches.
<b>Recommended Action</b>	This message is often transitory. Wait a few minutes and try the command again. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## TRCE-1008

<b>Message</b>	Unable to load trace parameters.
<b>Message Type</b>	FFDC   LOG
<b>Severity</b>	CRITICAL
<b>Probable Cause</b>	Indicates that the management module is unable to read the stored trace parameters.
<b>Recommended Action</b>	Reload the switch or the chassis. If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## TRCE-1009

<b>Message</b>	Unable to alert active MM that a dump has occurred.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the standby management module is unable to communicate trace information to the active management module. This message is only applicable to modular switches.
<b>Recommended Action</b>	Execute the <b>show ha</b> command to verify that the current management module is standby and the active management module is active.  If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## TRCE-1010

<b>Message</b>	Traced fails to start.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the trace daemon (traced), which is used for transferring the trace files has failed to start. The trace capability within the switch is unaffected. The system automatically restarts the traced facility after a brief delay.
<b>Recommended Action</b>	If the message persists, reload the switch or the chassis.  Execute the <b>copy support</b> command and contact your switch service provider.

## TRCE-1011

<b>Message</b>	Trace dump manually transferred to target ' <optional string to indicate which slot the trace dump is transferred> ': <result>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the trace dump files were transferred manually to the specified slot.
<b>Recommended Action</b>	No action is required.



## TRCE-1012

<b>Message</b>	The system was unable to retrieve trace information from slot <Slot number of the interface module on which the attempt was made>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the system was unable to retrieve trace information from the specified slot because there is no communication between the main system and the slot.
<b>Recommended Action</b>	Check that the interface module is enabled and retry the command. If the interface module is already enabled, execute the <b>copy support</b> command and contact your switch service provider.

## TS Messages

### TS-1002

<b>Message</b>	<Type of clock server used> Clock Server used instead of <Type of clock server configured>: locl: 0x<Reference ID of LOCL> remote: 0x<Reference ID of external clock server>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	<p>Indicates that the switch time synchronization was sourced from an alternate clock server instead of the configured clock server. The clock server used can be one of the following type:</p> <ul style="list-style-type: none"> <li>• LOCL - Local switch clock.</li> <li>• External - External Network Time Protocol (NTP) server address configured.</li> </ul> <p>This message may be logged during temporary operational issues such as IP network connection issues to the external clock server. If the message does not recur, it can be ignored.</p>
<b>Recommended Action</b>	Execute the <b>show ntp status</b> command to verify that the switch clock server IP address is configured correctly. Verify if this clock server is accessible to the switch and functional. If it is not accessible or functional, configure an accessible and functional clock server or reset the clock server to local clock server (LOCL).

### TS-1008

<b>Message</b>	<New clock server used> Clock Server used instead of <Old server configured>. System time changed from <Old time> to <New time>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the source of switch time synchronization was changed to another configured clock server because the Network Time Protocol (NTP) query to the current active external clock server failed.
<b>Recommended Action</b>	No action is required. New clock server synchronization will adjust the clock time.

## TS-1009

<b>Message</b>	Event: change time: attempt.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates an attempt to change the switch time.
<b>Recommended Action</b>	No action is required.

## TS-1010

<b>Message</b>	Event: change time: <success or fail>, Info: <result detail>.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates the status of the switch time change.
<b>Recommended Action</b>	No action is required.

## TS-1011

<b>Message</b>	Event: change time zone: attempt.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates an attempt to change the time zone.
<b>Recommended Action</b>	No action is required.

## TS-1012

<b>Message</b>	Event: change time zone: <success or fail>, Info: <result detail>.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates the status of the time zone change.
<b>Recommended Action</b>	No action is required.

## TS-1013

<b>Message</b>	Event: Clock Server change, Status: success, Info: <New clock server used> Clock Server used instead of <Old server configured>. System time changed from <Old time> to <New time>.
<b>Message Type</b>	AUDIT
<b>Class</b>	SECURITY
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the clock server and the system time have been changed.
<b>Recommended Action</b>	No action is required.

## UCST Messages

### UCST-1003

<b>Message</b>	Duplicate Path to RBridge <RBridge ID>, Output Port = <port number>, PDB pointer = 0x<value>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that duplicate paths were reported to the specified RBridge from the output port. The <i>PDB pointer</i> value displayed in the message is the address of the path database (PDB) and provides debugging information.
<b>Recommended Action</b>	No action is required.

## UDLD Messages

### UDLD-1000

<b>Message</b>	UDLD is enabled.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the UniDirectional Link Detection (UDLD) protocol is enabled globally.
<b>Recommended Action</b>	No action is required.

### UDLD-1001

<b>Message</b>	UDLD is disabled.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the UniDirectional Link Detection (UDLD) protocol is disabled globally.
<b>Recommended Action</b>	No action is required.

### UDLD-1002

<b>Message</b>	UDLD Hello time has changed.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the UniDirectional Link Detection (UDLD) Hello time has been changed.
<b>Recommended Action</b>	No action is required.

## UDLD-1003

<b>Message</b>	UDLD Multiplier timeout has changed.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the UniDirectional Link Detection (UDLD) timeout multiplier value has been changed.
<b>Recommended Action</b>	No action is required.

## UDLD-1004

<b>Message</b>	UDLD is enabled on interface <InterfaceName>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the UniDirectional Link Detection (UDLD) protocol is enabled on the specified interface.
<b>Recommended Action</b>	No action is required.

## UDLD-1005

<b>Message</b>	UDLD is disabled on interface <InterfaceName>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the UniDirectional Link Detection (UDLD) protocol is disabled on the specified interface.
<b>Recommended Action</b>	No action is required.

## UDLD-1006

<b>Message</b>	Link status on interface <InterfaceName> is down. Unidirectional link detected.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the specified interface has been detected as a unidirectional link. The interface is blocked.

## 7 UDLD-1007

**Recommended Action**      Action must be taken to fix the unidirectional link.

### UDLD-1007

**Message**      Link status on interface <InterfaceName> is up. Bidirectional link detected.

**Message Type**      LOG

**Severity**      INFO

**Probable Cause**      Indicates that UniDirectional Link Detection (UDLD) PDUs are being received on a link that was considered unidirectional.

**Recommended Action**      No action is required.



## UPTH Messages

### UPTH-1001

<b>Message</b>	No minimum cost path in candidate list.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the switch is unreachable because no minimum cost path (MPATH) exists in the candidate list (RBridge ID list).
<b>Recommended Action</b>	No action is required. This error will end the current shortest path first (SPF) computation.

## VC Messages

### VC-1000

<b>Message</b>	vCenter <vCenterName> configuration is added.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a new vCenter configuration was added.
<b>Recommended Action</b>	No action is required.

### VC-1001

<b>Message</b>	vCenter <vCenterName> configuration is changed.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified vCenter configuration has been updated.
<b>Recommended Action</b>	No action is required.

### VC-1002

<b>Message</b>	vCenter <vCenterName> configuration is deleted.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified vCenter configuration has been deleted.
<b>Recommended Action</b>	No action is required.

## VC-1003

<b>Message</b>	vCenter <vCenterName> configuration has been activated successfully.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified vCenter configuration has been activated.
<b>Recommended Action</b>	No action is required.

## VC-1004

<b>Message</b>	vCenter <vCenterName> configuration has been deactivated successfully.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the specified vCenter configuration has been deactivated.
<b>Recommended Action</b>	No action is required.

## VC-1005

<b>Message</b>	Login to vCenter <vCenterName> failed (attempt(s) <failedAttempts>) - check credentials for user <userName>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the vCenter login failed due to invalid credentials.
<b>Recommended Action</b>	Enter the correct username and password for the vCenter.

## VC-1006

<b>Message</b>	vCenter <vCenterName> periodic discovery interval has been changed to <interval> minutes.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the periodic discovery timer interval has been changed for the specified vCenter.
<b>Recommended Action</b>	No action is required.

## VC-1007

<b>Message</b>	vCenter <vCenterName>: ignore-delete-all-response has been changed to <ignore_count> cycles.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the vCenter ignore invalid discovery cycle count has been changed.
<b>Recommended Action</b>	No action is required.

## VC-1008

<b>Message</b>	Ignoring no data from vCenter <url> - cycle: <ignore_count>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates the cycle for which no data is received from vCenter has been ignored.
<b>Recommended Action</b>	No action is required.

## VC-1009

<b>Message</b>	No data received from vCenter <url>, proceeding with discovery after specified <ignore_count> cycles.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates proceeding with discovery after receiving invalid data from vCenter.
<b>Recommended Action</b>	No action is required.

## VC-1010

<b>Message</b>	vCenter <vCenterName> : ignore-delete-all-response value has been changed to ALWAYS.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the vCenter ignore invalid discovery cycle count has been changed to "always".
<b>Recommended Action</b>	No action is required.

## VC-1011

<b>Message</b>	vCenter <url> : ignoring invalid discovery - ALWAYS.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates the cycle for which there was an invalid discovery has been ignored.
<b>Recommended Action</b>	No action is required.

## VC-1100

<b>Message</b>	START: <discType> discovery of virtual assets from vCenter <vCenterName> @ <url>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the discovery of assets has started for the specified vCenter.
<b>Recommended Action</b>	No action is required.

## VC-1101

<b>Message</b>	END: <discType> discovery of virtual assets from vCenter <vCenterName> @ <url>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the discovery of assets has completed for the specified vCenter.
<b>Recommended Action</b>	No action is required.

## VC-1103

<b>Message</b>	Connect to vCenter <vCenterName> failed @ <url> : <failureReason>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that connection to vCenter failed.
<b>Recommended Action</b>	Ensure reachability to vCenter, and check vCenter credentials and vCenter version.

## VCS Messages

### VCS-1001

<b>Message</b>	Event: VCS cluster create, Coordinator IP: <Coordinator's Public IP>, VCS ID: <VCS Id>, Status: <Cluster status>.
<b>Message Type</b>	LOG   VCS
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the VCS cluster has been created due to the initial VCS logical-chassis enable on two or more nodes where a VCS cluster of the same VCS ID did not exist before.
<b>Recommended Action</b>	No action is required.

### VCS-1002

<b>Message</b>	Event: VCS cluster create, Coordinator IP: <Coordinator's Public IP>, VCS ID: <VCS Id>, Status: VCS cluster failed to be created, Reason: <Error Reason>.
<b>Message Type</b>	LOG   VCS
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the VCS cluster failed to be created. Refer to the reason code for the cause of the error.
<b>Recommended Action</b>	Refer to reason code for possible action.

### VCS-1003

<b>Message</b>	Event: VCS node add, Coordinator IP: <Coordinator's Public IP>, VCS ID: <VCS Id>, Status: rBridge ID <RBridge-id of Added Switch> (<IP of Added Switch>) added to VCS cluster.
<b>Message Type</b>	LOG   VCS
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a logical-chassis node has been added to the VCS cluster. The node was added because the VCS logical-chassis is enabled on a node that was not a member of the VCS cluster.
<b>Recommended Action</b>	No action is required.

**VCS-1004**

<b>Message</b>	Event: VCS node add, Coordinator IP: <Coordinator's Public IP>, VCS ID: <VCS Id>, Status: rBridge ID <RBridge-id of Switch That Failed To Be Added> (<IP of Switch That Failed To Be Added>) failed to be added to VCS cluster, Reason: <Error Reason>.
<b>Message Type</b>	LOG   VCS
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that a logical-chassis node failed to be added to the VCS cluster. Refer to the reason code for the cause of the error.
<b>Recommended Action</b>	Refer to reason code for possible action.

**VCS-1005**

<b>Message</b>	Event: VCS node rejoin, Coordinator IP: <Coordinator's Public IP>, VCS ID: <VCS Id>, Status: rBridge ID <RBridge-id of Rejoined Switch> (<IP of Rejoined Switch>) rejoined VCS cluster.
<b>Message Type</b>	LOG   VCS
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the logical-chassis node has gone offline and returned online without any configuration changes.
<b>Recommended Action</b>	No action is required.

**VCS-1006**

<b>Message</b>	Event: VCS node rejoin, Coordinator IP: <Coordinator's Public IP>, VCS ID: <VCS Id>, Status: rBridge ID <RBridge-id of Switch That Failed To Rejoin> (<IP of Switch That Failed To Rejoin>) failed to rejoin VCS cluster, Reason: <Error Reason>.
<b>Message Type</b>	LOG   VCS
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the logical-chassis node has failed to rejoin the existing VCS cluster. Refer to the reason code for the cause of the error.
<b>Recommended Action</b>	Refer to reason code for possible action.



## VCS-1007

<b>Message</b>	Event: VCS node remove, Coordinator IP: <Coordinator's Public IP>, VCS ID: <VCS Id>, Status: rBridge ID <RBridge-id of Removed Switch> (<IP of Removed Switch>) removed from VCS cluster.
<b>Message Type</b>	LOG   VCS
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that VCS is disabled on the node that was part of a VCS cluster.
<b>Recommended Action</b>	No action is required.

## VCS-1008

<b>Message</b>	Event: VCS node remove, Coordinator IP: <Coordinator's Public IP>, VCS ID: <VCS Id>, Status: rBridge ID <RBridge-id of Switch That Failed To Be Removed> (<IP of Switch That Failed To Be Removed>) failed removal from VCS cluster, Reason: <Error Reason>.
<b>Message Type</b>	LOG   VCS
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that a logical-chassis node failed to be removed from the VCS cluster. Refer to the reason code for the cause of the error.
<b>Recommended Action</b>	Refer to reason code for possible action.

## VCS-1009

<b>Message</b>	Event: VCS node disconnect, Coordinator IP: <Coordinator's Public IP>, VCS ID: <VCS Id>, Status: rBridge ID <RBridge-id of Switch That Disconnected> (<IP of Switch That Disconnected >) disconnected from VCS cluster.
<b>Message Type</b>	LOG   VCS
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the heartbeat loss to a logical-chassis node occurred because the node was reloaded or all interswitch links (ISLs) to the node are down.
<b>Recommended Action</b>	If you had issued the <b>reload</b> command, no action is required. If for another reason, check the state of the disconnected node and the ISLs to the disconnected node.

## VRRP Messages

### VRRP-1001

<b>Message</b>	<message> : <message>.
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the system has failed to allocate memory.
<b>Recommended Action</b>	Check the memory usage on the switch using the <b>show process memory</b> command. Reload or power cycle the switch.

### VRRP-1002

<b>Message</b>	<message> .
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates the Virtual Router Redundancy Protocol (VRRP) session state change.
<b>Recommended Action</b>	No action is required.

### VRRP-1003

<b>Message</b>	<message> .
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the Virtual Router Redundancy Protocol (VRRP) session is enabled.
<b>Recommended Action</b>	No action is required.

## VRRP-1004

<b>Message</b>	<message> .
<b>Message Type</b>	DCE
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the Virtual Router Redundancy Protocol (VRRP) session is disabled.
<b>Recommended Action</b>	No action is required.

## VRRP-1501

<b>Message</b>	<message> : <message> .
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the system has failed to initialize.
<b>Recommended Action</b>	Reload or power cycle the switch.

## VRRP-2001

<b>Message</b>	<message> : <message> .
<b>Message Type</b>	DCE
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates a connection, transfer, or receiving error in the socket.
<b>Recommended Action</b>	If this is a modular switch, execute the <b>ha failover</b> command. If the problem persists or if this is a compact switch, download a new firmware version using the <b>firmware download</b> command.

## WLV Messages

### WLV-1001

<b>Message</b>	Port <port number> port fault. Change the SFP transceiver or check cable.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates a deteriorated small form-factor pluggable (SFP) transceiver, an incompatible SFP transceiver pair, or a faulty cable between the peer ports.
<b>Recommended Action</b>	Verify that compatible SFP transceivers are used on the peer ports, the SFP transceivers have not deteriorated, and the Fibre Channel cable is not faulty. Replace the SFP transceivers or the cable, if necessary.

### WLV-1002

<b>Message</b>	Port <port number> chip faulted due to internal error.
<b>Message Type</b>	LOG   FFDC
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates an internal error. All the ports on the interface module or switch will be disrupted.
<b>Recommended Action</b>	For a modular switch, execute the <b>power-off</b> and <b>power-on</b> commands to power cycle the interface module. For a compact switch, reload or power cycle the switch.

### WLV-1003

<b>Message</b>	Port <port number> faulted due to excessive link flapping. Check the SFP transceiver/cable and issue shutdown/no shutdown commands to recover.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates a deteriorated small form-factor pluggable (SFP) transceiver, an incompatible SFP transceiver pair, or a faulty cable between the peer ports.
<b>Recommended Action</b>	Verify that compatible SFP transceivers are used on the peer ports, the SFP transceivers have not deteriorated, and the cable is not faulty. Replace the SFP transceivers or the cable, if necessary. Execute the <b>shutdown</b> and <b>no shutdown</b> commands to restart the link up process.

## ZONE Messages

### ZONE-1010

<b>Message</b>	Duplicate entries in zone (<zone name>) specification.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that there are duplicate entries in a zone object. A zone object member is specified twice in a given zone object. This message occurs only when enabling a zone configuration.
<b>Recommended Action</b>	Check the members of the zone and delete the duplicate member using the <b>no member-zone</b> command.

### ZONE-1014

<b>Message</b>	Missing required license - <license name>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the required zoning license is missing.
<b>Recommended Action</b>	Install the zoning license using the <b>license add</b> command. Contact your switch supplier to obtain a zoning license if you do not have one.

### ZONE-1015

<b>Message</b>	Not owner of the current transaction <transaction ID>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that a zoning change operation was not allowed because the zoning transaction was opened by another task. Indicates concurrent modification of the zone database by multiple administrators.
<b>Recommended Action</b>	Wait until the previous transaction is completed. Verify that only one administrator is working with the zone database at a time.

## ZONE-1019

<b>Message</b>	Transaction Commit failed. Reason code <reason code> (<Application reason>) - \"<reason string>\".
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the reliable commit service (RCS) had a transmit error. RCS is a protocol used to transmit changes to the configuration database within a fabric.
<b>Recommended Action</b>	<p>Often this message indicates a transitory problem. Wait a few minutes and retry the command.</p> <p>Make sure your changes to the zone database are not overwriting the work of another administrator.</p> <p>Execute the <b>show zoning operation-info</b> command to know if there is any outstanding transaction running on the local switches.</p> <p>If the message persists, execute the <b>copy support</b> command and contact your switch service provider.</p>

## ZONE-1022

<b>Message</b>	The effective configuration has changed to <Effective configuration name>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the effective zone configuration has changed to the specified configuration name.
<b>Recommended Action</b>	Verify that the event was planned. If the event was planned, no action is required. If the event was not planned, take appropriate action as defined by your enterprise security policy.

## ZONE-1023

<b>Message</b>	Switch connected to port (<port number>) is busy. Retrying zone merge.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the switch is retrying the zone merge operation. This usually occurs if the switch on the other side of the port is busy.
<b>Recommended Action</b>	If the message persists, execute the <b>copy support</b> command and contact your switch service provider.

## ZONE-1024

<b>Message</b>	<Information message>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the <b>zoning enabled-configuration cfg-action cfg-save</b> command was executed successfully.
<b>Recommended Action</b>	No action is required.

## ZONE-1027

<b>Message</b>	Zoning transaction aborted <error reason>.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the zoning transaction was aborted because of one of the following conditions: <ul style="list-style-type: none"> <li>• Zone Merge Received: The fabric is in the process of merging two zone databases.</li> <li>• Zone Config update Received: The fabric is in the process of updating the zone database.</li> <li>• Bad Zone Config: The new configuration is not viable.</li> <li>• Zoning Operation failed: A zoning operation failed.</li> <li>• Shell exited: The command shell has exited.</li> <li>• Unknown: An error was received for an unknown reason.</li> <li>• User Command: A user aborted the current zoning transaction.</li> <li>• Switch Shutting Down: The switch is currently shutting down.</li> </ul> Most of these error conditions are transitory.
<b>Recommended Action</b>	Try again after some time. Verify that only one administrator is modifying the zone database at a time.

## ZONE-1028

<b>Message</b>	Commit zone DB larger than supported - <zone db size> greater than <max zone db size>.
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates that the zone database size is greater than the limit allowed by the fabric. The limit of the zone database size depends on the lowest level switch in the fabric. Older switches have less memory and force a smaller zone database for the entire fabric.

## 7 ZONE-1029

<b>Recommended Action</b>	Edit the zone database to keep it within the allowable limit for the specific switches in your fabric. You can view the zone database size information using the <b>show zoning operation-info</b> command.
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### ZONE-1029

<b>Message</b>	Restoring zone cfg from flash failed - bad config saved to <config file name> [<return code>].
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<b>Message Type</b>	LOG
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<b>Severity</b>	WARNING
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<b>Probable Cause</b>	Indicates that the zone configuration restored from the flash was faulty. This error will save the faulty zone configuration in the zoned core file directory.
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<b>Recommended Action</b>	If the message persists, execute the <b>copy support</b> command and contact your switch service provider.
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### ZONE-1032

<b>Message</b>	RBridge <RBridge number> Max Zone DB size <max zone db size>.
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<b>Message Type</b>	LOG
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<b>Severity</b>	ERROR
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<b>Probable Cause</b>	Indicates that the specified RBridge does not have enough memory for the zone database being committed.
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<b>Recommended Action</b>	Reduce the size of the zone database by deleting some zones and retry the operation. Refer to the <i>Network OS Administrator's Guide</i> for instructions to delete a zone.
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### ZONE-1033

<b>Message</b>	RBridge <RBridge number> Lowest Max Zone DB size.
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<b>Message Type</b>	LOG
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<b>Severity</b>	ERROR
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<b>Probable Cause</b>	Indicates that the specified RBridge has the lowest memory available for the zone database in the fabric. The zone database must be smaller than the memory available on this RBridge.
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<b>Recommended Action</b>	Reduce the size of the zone database by deleting some zones and retry the operation. Refer to the <i>Network OS Administrator's Guide</i> for instructions to delete a zone.
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## ZONE-1034

<b>Message</b>	A new zone database file is created.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that a new zone database file has been created.
<b>Recommended Action</b>	No action is required.

## ZONE-1035

<b>Message</b>	Unable to rename <Old config file name> to <New config file name>: error message <System Error Message>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the Network OS cannot rename the zone configuration file. Typically, the zone configuration is too large for the memory available on the switch.
<b>Recommended Action</b>	Reduce the size of the zone database by deleting some zones and retry the operation. Refer to the <i>Network OS Administrator's Guide</i> for instructions to delete a zone.

## ZONE-1036

<b>Message</b>	Unable to create <config file name>: error message <System Error Message>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the Network OS cannot create the zone configuration file. Typically, the zone configuration is too large for the memory available on the switch.
<b>Recommended Action</b>	Reduce the size of the zone database by deleting some zones and retry the operation. Refer to the <i>Network OS Administrator's Guide</i> for instructions to delete a zone.

## ZONE-1037

<b>Message</b>	Unable to examine <config file name>: error message <System Error Message>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the Network OS cannot examine the zone configuration file. Typically, the zone configuration is too large for the memory available on the switch.
<b>Recommended Action</b>	Reduce the size of the zone database by deleting some zones and retry the operation. Refer to the <i>Network OS Administrator's Guide</i> for instructions to delete a zone.

## ZONE-1038

<b>Message</b>	Unable to allocate memory for <config file name>: error message <System Error Message>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the Network OS cannot allocate enough memory for the zone configuration file. Typically, the zone configuration is too large for the memory available on the switch.
<b>Recommended Action</b>	Reduce the size of the zone database by deleting some zones and retry the operation. Refer to the <i>Network OS Administrator's Guide</i> for instructions to delete a zone.

## ZONE-1039

<b>Message</b>	Unable to read contents of <config file name>: error message <System Error Message>.
<b>Message Type</b>	LOG
<b>Severity</b>	ERROR
<b>Probable Cause</b>	Indicates that the Network OS cannot read the zone configuration file. Typically, the zone configuration is too large for the memory available on the switch.
<b>Recommended Action</b>	Reduce the size of the zone database by deleting some zones and retry the operation. Refer to the <i>Network OS Administrator's Guide</i> for instructions to delete a zone.

## ZONE-1040

<b>Message</b>	Merged zone database exceeds limit.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the Network OS cannot read the merged zone configuration file. Typically, the zone configuration is too large for the memory available on the switch.
<b>Recommended Action</b>	Reduce the size of the zone database by deleting some zones and retry the operation. Refer to the <i>Network OS Administrator's Guide</i> for instructions to delete a zone.

## ZONE-1041

<b>Message</b>	Unstable link detected during merge at port (<Port number>).
<b>Message Type</b>	LOG
<b>Severity</b>	WARNING
<b>Probable Cause</b>	Indicates a possible unstable link or a faulty cable.
<b>Recommended Action</b>	Verify that the small form-factor pluggable (SFP) transceiver and cable at the specified port are not faulty. Replace the SFP transceiver and cable if necessary.

## ZONE-1042

<b>Message</b>	The effective configuration has been disabled.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the effective zone configuration has been disabled.
<b>Recommended Action</b>	Verify that the event was planned. If the event was planned, no action is required. If the event was not planned, take appropriate action as defined by your enterprise security policy.

## ZONE-1043

<b>Message</b>	The Default Zone access mode is set to No Access.
<b>Message Type</b>	LOG
<b>Severity</b>	INFO
<b>Probable Cause</b>	Indicates that the default zone access mode is set to No Access.

## 7 ZONE-1044

<b>Recommended Action</b>	Verify that the event was planned. If the event was planned, no action is required. If the event was not planned, take appropriate action as defined by your enterprise security policy.
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### ZONE-1044

<b>Message</b>	The Default Zone access mode is set to All Access.
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<b>Message Type</b>	LOG
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<b>Severity</b>	INFO
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<b>Probable Cause</b>	Indicates that the default zone access mode is set to All Access.
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<b>Recommended Action</b>	Verify that the event was planned. If the event was planned, no action is required. If the event was not planned, take appropriate action as defined by your enterprise security policy.
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### ZONE-1045

<b>Message</b>	The Default Zone access mode is already set to No Access.
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<b>Message Type</b>	LOG
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<b>Severity</b>	INFO
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<b>Probable Cause</b>	Indicates that the default zone access mode is already set to No Access.
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<b>Recommended Action</b>	No action is required.
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### ZONE-1046

<b>Message</b>	The Default Zone access mode is already set to All Access.
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<b>Message Type</b>	LOG
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<b>Severity</b>	INFO
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<b>Probable Cause</b>	Indicates that the default zone access mode is already set to All Access.
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<b>Recommended Action</b>	No action is required.
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