S i m p l i f y

QLogic Fibre Channel Switch

Event Message Guide

Firmware Version 4.0

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Notes

Section 1
Introduction

This manual describes the alarm messages for the SANbox 3050 Fibre Channel switch using firmware version 4.0:

This manual is organized as follows:

■ Section 1 describes the intended audience, related materials, and technical support.

■ Section 2 describes event logging concepts including definitions, how to configure the event log, how to display the event log, and how to download the event log from the switch.

■ Section 3 describes the alarm message format and lists the alarm messages.

1.1
Intended Audience

This manual is for Storage Area Network (SAN) administrators to provide a reference for switch alarm messages, their meanings, and follow up actions.

1.2
Related Materials

The following manuals and materials provide additional information.

■ *SANbox 3050 Fibre Channel Switch Installation Guide*, publication number 59058-00.

■ *SANbox 3050 Switch Management User's Guide*, publication number 59058-00.

The Fibre Channel Standards are available from:

Global Engineering Documents, 15 Inverness Way East, Englewood, CO 80112-5776   Phone: (800) 854-7179 or (303) 397-7956
Fax: (303) 397-2740.

1.3
Technical Support

Customers should contact their authorized maintenance provider for technical support of their QLogic switch products. QLogic-direct customers may contact QLogic Technical Support; others will be redirected to their authorized maintenance provider.

Visit the QLogic support Web site listed in Contact Information for the latest firmware and software updates.

1.3.1
Availability

QLogic Technical Support is available from 7:00 AM to 7:00 PM Central Standard Time, Monday through Friday, excluding QLogic-observed holidays.

1.3.2
Training

QLogic offers certification training for the technical professional for both the SANblade™ HBAs and the SANbox switches. From the training link at www.qlogic.com, you may choose Electronic-Based Training or schedule an intensive "hands-on" Certification course.

Technical Certification courses include installation, maintenance and troubleshooting QLogic SAN products. Upon demonstrating knowledge using live equipment, QLogic awards a certificate identifying the student as a Certified Professional. The training professionals at QLogic may be reached by email at tech.training@qlogic.com.

1.4
Contact Information

Telephone:	+1 952-932-4040
Fax:	+1 952-932-4018
Email:	
Technical Service	support@qlogic.com
Technical Training	tech.training@qlogic.com
Switch Support Web Site:	http://support.qlogic.com

Section 2
Events and Event Logging

Messages originate from the switch or from the SANbox Manager application in response to events that occur in the fabric.

2.1
Understanding Severity Levels

Events are classified by the following severity levels:

- Alarm – The alarm level describes events that are disruptive to the administration or operation of a fabric and require administrator intervention. Alarms are always logged and always displayed on the screen. Alarm thresholds can be defined for certain port errors to customize when to generate an alarm.

- Critical – The critical level describes events that are generally disruptive to the administration or operation of the fabric, but require no action.

- Warning – The warning level describes events that are generally not disruptive to the administration or operation of the fabric, but are more important than the informative level events.

- Informative – The informative level describes routine events associated with a normal fabric.

2.2
Displaying Events using the SANbox Manager Event Browser

SANbox Manager provides an Event Browser, which displays events from the switch event log and events that are generated by SANbox Manager itself. The Event Browser formats events by severity, timestamp, source, type, and description. Events read from the switch event log obtain the timestamp from the switch clock, while events generated by SANbox Manager use the workstation clock.

The Event Browser can maintain a maximum of 1500 events. Once the maximum is reached, the oldest events are discarded and replaced with new events. To display the Event Browser, open the Fabric menu and select **Show Event Browser**, or click the **Events** button on the tool bar. When you close SANbox Manager, all events in the Event Browser are lost. To save events to file before closing SANbox Manager, open the File menu from the Event Browser window and select **Save As**. For more information about the Event Browser, refer to the Switch Management User's Guide for your switch.

2.3

Displaying the Events Using the Command Line Interface

When you log into a switch through Telnet, the command line interface automatically displays the alarm history. You can use the Show Alarm or Show Log command to display the alarm history at any time. New alarm messages are displayed in the command stream as they occur. Refer to the Installation Guide for your switch for more information about the Show Log command.

In the command line interface, each message has the following format:

`[ordinal][time_stamp][severity][source][message_ID][message_text]`

`[ordinal]` – A number assigned to each message in sequence since that last time the alarm history was cleared.

`[time_stamp]` – The time the alarm was issued in the format day-month-hh:mm:ss:ms-yyyy. This time stamp comes from the switch for events that originate with the switch, and from the workstation for events that originate from SANbox Manager.

`[severity]` – The event severity: A–Alarm, C–Critical, W–Warning, I–Informative.

`[source]` – The program module or application that generated the event. Sources include Zoning, Switch, PortApp, EPort, Management Server. Alarms do not include the source.

`[message_ID]` – A number that identifies the message using the following format: `category.message_number`

`[message_text]` – The alarm message text

Consider the following Informative level event example from the Switch source:

`[1][Wed May 26 12:30:29.965 UTC 2004][I][8400.0022][Switch][Successful login user (snmp@IB-session6) with admin privilege]`

2.4
Configuring the Event Log

You can customize what events that are recorded in the switch event log using the Set Log command. With the Set Log command, you can filter the events to be recorded by component, specific ports, and severity level. You can choose from the following component events:

- E_Port events

- Management server events

- Name server events

- Port events

- Switch management events

- Simple Network Management Protocol (SNMP) events

- Zoning events

Refer to the Installation Guide for your switch for more information about the Set Log command.

2.5
Archiving and Downloading the Event Log

You can use the command line interface to create a file on the switch that contains the most recent 200 entries plus the previous 1000 entries. This file can then be downloaded to the workstation using FTP. To create and download a log file, do the following:

1. Log into the switch through Telnet and create an archive of the event log. The Set Log Archive command creates a file on the switch named *logfile*.

    ```
    SANbox  #> admin start

    SANbox (admin) #> set log archive
    ```

2. Open an FTP session on the switch and login with the account name *images* and password *images*. Transfer the file *logfile* in binary mode with the Get command.

    ```
    >ftp ip_address

    user:images

    password: images


    ftp>bin

    ftp>get logfile

        xxxxx bytes sent in xx secs.

    ftp>quit
    ```

2.6
Configuring Port Alarm Thresholds

You can configure the switch to generate alarms for selected events. Configuring an alarm involves choosing an event type, rising and falling triggers, a sample window, and finally enabling or disabling the alarm. You can configure port alarm thresholds for the following port events using the SANbox Manager or the command line interface:

- CRC errors

- Decode errors

- ISL connections

- Device logins

- Device logouts

- Loss-of-signal errors

To configure port threshold alarms using SANbox Manager, open the Switch menu in the faceplate display, and select **Port Threshold Alarm Configuration**. The Port Threshold Alarm Configuration dialog shown in prompts you to enable or disable all alarms, select an event, set triggers, set a sample window and enable or disable an individual alarm. Refer to the Switch Management User's Guide for your switch for more information about port threshold alarms.

To configure port threshold alarms using the command line interface, use the Set Config Threshold command. Refer to the Installation Guide for your switch for more information about the command line interface and the Set Config command.

Section 3
Event Messages

This section lists event messages from the command line interface and SANbox Manager in message ID sequence by the following severity levels:

- Alarm Events
- Critical Events
- Warning Events
- Informative Events

You can look up a message by its message ID or by searching for the message text. If the message you are looking for does not appear in this section, contact your authorized maintenance provider.

3.1
Alarm Events

[A] [1003.0010] [Segmenting, zoneset *zone_set_name* not defined]

Meaning: In non-interop mode, there is a conflict in the zoning configuration, causing the Inter-Switch Link (ISL) to isolate. The zone set is not found within the local zoning data base while interop mode is disabled.

Action: Contact your authorized maintenance provider.

[A] [1003.0011] [Segmenting, zoneset *zone_set_name* already active]

Meaning: In non-interop mode, there is a conflict in the zoning configuration, causing the Inter-Switch Link (ISL) to isolate. A switch tried to activate a zone set that is already active while interop mode is disabled.

Action: Contact your authorized maintenance provider.

[A] [1003.0012] [Segmenting, zoneset *zone_set_name* merge conflict]

Meaning: In non-interop mode, there is a conflict in the zoning configuration, causing the Inter-Switch Link (ISL) to isolate. After a zone merge with interop mode disabled, two zone sets were discovered in the local zoning database with the same name, but different membership.

Action: Contact your authorized maintenance provider.

[A] [1003.0013] [Segmenting, zone *zone_name* merge conflict]

Meaning: In non-interop mode, there is a conflict in the zoning configuration, causing the Inter-Switch Link (ISL) to isolate. After a zone merge with interop mode disabled, two zone were discovered in the local zoning database with the same name, but different membership.

Action: Contact your authorized maintenance provider.

[A] [1003.0014] [Segmenting, alias *alias_name* merge conflict]

Meaning: In non-interop mode, there is a conflict in the zoning configuration, causing the Inter-Switch Link (ISL) to isolate. After a zone merge with interop mode disabled, two aliases were discovered in the local zoning database with the same name, but different membership.

[A] [1003.0015] [Zoneset Activation received from switch with domain *domain_ID* **failed, unknown zoneset** *zone_set_name***]**

Meaning: A zone set activation received from the named switch failed because the zone set was not in the zoning database.

Action: Examine the named switch to verify that the zoning database is correct.

[A] [1003.0017] [Activation of zoneset by management server failed due to port *port_number* **out of range.]**

Meaning: A zone member defined by domain ID and port was received within a management server AZSD command with a port number out of range.

Action: Check management server application zoning configuration to assure zone members are properly configured.

[A] [1003.0018] [Hard zone *zone_name* **with non Domain/Port member reverting to Soft Zone.]**

Meaning: An attempt was made to assign a zone member to a hard zone by FC address or world wide name. Hard zones require that membership be defined by domain ID and port number.

Action: Redefine the zone member by domain ID and port number.

[A] [1003.001B] [Failing remote zoning configuration, total zoneset limit would be exceeded]

Meaning: The maximum number of zone sets has been exceeded on the switch as a result of a zone merge.

Action: Reduce the number of zone sets on the remote switch.

[A] [1003.001C] [Failing remote zoning configuration, total member limit would be exceeded]

Meaning: The maximum number of zone members has been exceeded on the switch due to a zone merge.

Action: Reduce the number of zone members on the remote switch.

[A] [1003.001D] [Failing remote zoning configuration, total zones in zonesets limit would be exceeded]

Meaning: The maximum number of zones in zone sets has been exceeded on the switch as a result of a zone merge.

Action: Reduce the number zones on the remote switch.

[A] [1003.001F] [Failing remote zoning configuration, member limit for zone *zone_name*
exceeded, (size=*number_of_zones***, limit=** *maximum_number_of_zones***)]**

>| Meaning: | The maximum number of members for the given zone has been exceeded as a result of a zone merge. |
>|---|---|
>| Action: | Reduce the number of members in the given zone on the remote switch. |

[A] [1003.0020] [Failing remote zoning configuration, total zone limit would be exceeded]

>| Meaning: | The maximum number of zones has been exceeded on the switch as a result of a zone merge. |
>|---|---|
>| Action: | Reduce the number of zones on the remote switch. |

[A] [1003.0021] [Failing remote zoning configuration, Zoneset is empty]

>| Meaning: | An empty zone set was included as part of a zone merge and was rejected. |
>|---|---|
>| Action: | Modify the zoning database on the remote switch to remove or correct the empty zone set. |

[A] [1003.0022] [Unable to update zoning data base with newly activated zoneset
information, Zoning Save in Progress]

>| Meaning: | Modifications were being made to the local zoning database while a zone set was being activated or deactivated from a remote switch. |
>|---|---|
>| Action: | Avoid activating or deactivating a zone set while zoning changes are being made anywhere in the fabric. |

[A] [1003.002D] [Zone Merge response indicates failure to merge, Isolating link]

>| Meaning: | The attempt to merge two fabrics failed because each active zone set contained a zone with the same name, but different membership. |
>|---|---|
>| Action: | Edit the affected zone to remove the conflict or deactivate one of the zone sets. |

[A] [1003.003C] [Incompatible Zoning mode, Isolating link]

>| Meaning: | The fabric contains switches with a mix of Interop Mode settings. |
>|---|---|
>| Action: | Configure all switches in the fabric to have the same value for Interop Mode. |

[A] [1003.0040] [Zone Member type *member_type* **unsupported.]**

>| Meaning: | An invalid zone member type was discovered in a zone. ACL hard zone membership must be defined by domain_ID and port number. |
>|---|---|
>| Action: | Correct the member type. |

[A] [1003.0041] [Zoning objects which contain Fibre Channel (FC) Address Members not being sent to remote switch on save, not supported in this mode]

        Meaning: An attempt was made to assign a zone member by FC address while Interop mode was disabled. When Interop mode is disabled, zone membership must be defined by world wide name or domain_ID and port number.

        Action: Enable Interop mode or change the zone membership type.

[A] [1004.0001] [Port in active hard zone, but not installed or present on this switch.]

        Meaning: A zone member in an ACL zone on this switch is defined with an invalid port number.

        Action: Examine the fabric and correct the zone membership.

[A] [1004.0005] [No communication from neighbor switch on port *port_number* **with domain ID** *domain_ID*, **lost route]**

        Meaning: This switch has not received a hello from the remote switch for 80 seconds. Discard routes learned through this link and renegotiate.

        Action: None

[A] [1004.0008] [Eport Isolating due to ELP Incompatibility]

        Meaning: An E_Port isolated due to an Exchange Link Parameter (ELP) incompatibility.

        Action: Review accompanying alarms for specific cause.

[A] [1004.0009] [Eport Isolating due to ESC Incompatibility]

        Meaning: An E_Port isolated because the connecting switch failed to support the standard routing protocol Fabric Shortest Path First (FSPF).

        Action: Connect a compatible switch.

[A] [1004.000A] [Eport Isolating due to EFP Domain Overlap]

        Meaning: An E_Port isolated because each fabric has a switch with the same domain ID.

        Action: Change the domain ID on one of the conflicting switches.

[A] [1004.000B] [Eport Isolating due to Switch Administratively Offline]

        Meaning: An E_Port isolated because the local switch has been placed offline.

        Action: Configure the administrative state to Online to establish the link.

[A] [1004.000C] [Eport Isolating due to Domain ID Locked, Domain ID unavailable]

       Meaning: An E_Port isolated because the requested domain ID matches another in the fabric and assigning an alternative is prohibited by the Domain ID Lock parameter.

       Action: Disable the domain ID lock parameter or reconfigure the domain IDs.

[A] [1004.000D] [Eport Isolating due to RDI SW Reject]

       Meaning: An E_Port isolated because the principal switch rejected the local switch domain ID.

       Action: Change the domain ID so that it is unique in the fabric.

[A] [1004.000E] [Eport Isolating due to RDI Domain out of Range]

       Meaning: An E_Port isolated because the principal switch rejected the local switch domain ID as being out of range (1-239).

       Action: Change the domain ID to a valid number.

[A] [1004.000F] [Eport Isolating due to Merge Zone Failure]

       Meaning: An ISL failed because the two active zone sets each have a zone with the same name, but different members.

       Action: Modify one or both of the zones so that their membership is the same, or deactivate one of the active zone sets. To connect the two fabrics, reset the affected E_Ports.

[A] [1004.0010] [Eport Isolating due to Remote switch using same domain ID]

       Meaning: An E_Port isolated because the remote switch has the same domain ID.

       Action: Change the domain ID on one of the switches.

[A] [1004.0011] [Eport Isolating due to Remote switch Isolated]

       Meaning: An E_Port isolated because the remote switch has the same domain ID.

       Action: Change the domain ID on one of the switches.

[A] [1004.0013] [Eport Isolating due to all switches incapable of becoming Principal Switch]

       Meaning: An E_Port isolated because the principal priority on all switches is set to 254.

       Action: Configure one of the switches to be the principal switch by changing the principal priority.

[A] [1004.0014] [Eport Isolating due to TOV Mismatch indicated on ELP]

Meaning: An E_Port isolated because the R_A_TOV or E_D_TOV time out values are different on the two switches.

Action: Modify the switch configurations so that R_A_TOV or E_D_TOV values are the same.

[A] [1004.0020] [R_A_TOV mismatch indicated. Reconfigure to connect to remote switch.]

Meaning: An E_Port isolated because the R_A_TOV timeout values on the two switches do not match.

Action: Modify R_A_TOV so that it is the same on both switches. The recommended value is 10 seconds.

[A] [1004.0021] [E_D_TOV mismatch indicated. Reconfigure to connect to remote switch.]

Meaning: An E_Port isolated because the E_D_TOV timeout values on the two switches do not match.

Action: Modify E_D_TOV so that it is the same on both switches. The recommended value is 2 seconds.

[A] [1004.0023] [Attempting to connect to switch with incompatible time out value configured (R_A_TOV/E_D_TOV).]

Meaning: An E_Port isolated because the values for R_A_TOV or E_D_TOV are not the same on both switches.

Action: Modify the switches so that the time out values are the same.

[A] [1004.0024] [Attempting to connect to switch that is in non-interop mode]

Meaning: An attempt was made to connect to a switch with a different value for Interop Mode.

Action: Modify the Interop Mode values so that they are the same on both switches.

[A] [1004.0026] [Configured Domain ID *domain_ID* **not available and Domain ID is locked on this switch]**

Meaning: An attempt was made to connect a switch to a fabric with a conflicting domain ID and the domain ID could not be reassigned.

Action: Change the domain ID so that it is unique in the fabric or disable the domain ID lock so that the domain ID can be automatically reassigned.

[A] [1004.0029] [No Switch capable of being Principal Switch. Reconfigure Principal Switch Priority.]

      Meaning: An E_Port isolated because the principal priority on all switches is set to 254.

      Action: Configure one of the switches to be the principal switch by changing the principal priority.

[A] [1004.002B] [Port *port_number* not configured for E-Port capability, reconfigure to G/GL to connect to remote switch]

      Meaning: An attempt was made by a remote switch to connect through a port that could not configure itself as an E_Port.

      Action: Change the port type on the remote switch to G_Port or GL_Port.

[A] [1004.002D] [Non-interop Legacy switch setting prevents domain/port zoning]

      Meaning: Zone members involving non-QLogic switches cannot be defined by domain ID and port number when Interop Mode is disabled and Legacy Address Formatting is enabled.

      Action: Disable (False) the Legacy Address Formatting, enable Interop Mode, or reassign the zone members using a method other than domain ID and port number.

[A] [1004.0030] [Topology change, lost route to switch with domain ID *domain_ID*]

      Meaning: Connection was lost to a switch in the fabric.

      Action: Inspect switch connections and device hardware for proper operation. Review accompanying alarms for other causes.

[A] [1004.0032] [E_Port not supported on remote port. Reconfigure remote switch to connect.]

      Meaning: An E_Port isolated because the port on the remote switch could not configure itself as an E_Port.

      Action: Change the port type on the remote switch to G_Port or GL_Port.

[A] [1004.0033] [Remote switch is in Interop mode or using Legacy Address Format]

      Meaning: A remote switch is attempting to connect with conflicting settings for Interop mode or legacy address format.

      Action: Configure the switches so that Interop mode and Legacy Address Format settings are the same throughout the fabric.

[A] [1004.0034] [Failed to connect to a switch due to incompatibility - contact technical support.]

      Meaning: The two switches are incompatible.

      Action: Contact your authorized maintenance provider.

[A] [1004.0035] [Failed to connect to a switch due to incompatibility - check interop settings.]

Meaning: The remote switch is incompatible.

Action: Inspect the interoperability settings on the remote switch.

[A] [1004.0036] [Domain ID *domain_ID* **assigned to different switches. Cannot join fabrics.]**

Meaning: An attempt was made to join two fabrics that possessed switches with the same domain_ID.

Action: Change the domain_ID on one of the switches so that it is unique, and join the fabrics again.

[A] [1005.000A] [Cannot enforce zoning for member *domain_ID*, *port_number*, **this zone member will be ignored]**

Meaning: A zone member given by domain ID and port number could not be found in the fabric.

Action: Examine the fabric connections and zoning definitions.

[A] [1005.000C] [Configuration error, insufficient credit in pool. Extended credit not granted for port *port_number*]

Meaning: Insufficient credits were available in the credit pool to grant the credit request.

Action: Decrease the number of requested credits or add more donor ports.

[A] [1005.000D] [Configuration error, insufficient credit in pool. Extended credit not granted for port *port_number*]

Meaning: Insufficient credits were available in the credit pool to grant the credit request.

Action: Decrease the number of requested credits or add more donor ports.

[A] [1005.000E] [Configuration error, can't extend credit on loop capable ports. Extended credit not granted for port: *port_number*]

Meaning: Loop ports cannot borrow credits from the credit pool.

Action: Change the port type to G_Port or F_Port.

[A] [1005.0020] [Warning - development logging is enabled]

Meaning:

Action:

[A] [1005.0024] [Switch must be reset after leaving the Diagnostics Admin State]

Meaning: After changing the switch administrative state from Diagnostics to any other state, the switch must be reset to complete the state change.

Action: Reset the switch.

[A] [1005.0039] [Fabric Login (FLOGI) from address *FC_address* failed]

Meaning: The payload of the FLOGI was not valid.

Action: Check device connection or replace the device. If the problem persists, contact your authorized maintenance provider.

[A] [1005.003B] [Warning - Debug logging filter level is set]

Meaning: Debug logging has been set using the Set Log Level command.

Action: Confirm that you intended to do this. If not, use the Set Log Level command to change the severity level to Info, Warn, or Critical.

[A] [1006.0004] [Zoning conflict, *device_WWN* is in an Access Control List (ACL) hard zone, but *device_WWN* share a soft zone]

Meaning: The named zone members cannot communicate because they are members of different ACL hard zones.

Action: Place both zone members in the same ACL hard zone or exclude both from ACL hard zones.

[A] [1006.0005] [Zoning enforcement error in Nameserver]

Meaning: An error occurred while checking ACL zoning.

Action: Contact your authorized maintenance provider.

[A] [1006.0006] [Zoning conflict, *device_WWN* and *device_WWN* do not share an Access Control List (ACL) hard zone, but *device_WWN* share a soft zone]

Meaning: The named zone members cannot communicate because they are members of different ACL hard zones.

Action: Place both zone members in the same ACL hard zone or exclude both from ACL hard zones.

3.2
Critical Events

[C] [8100.0001] [LOG_MASK_NAME_SERVER] [Port: *port_number*] [Protocol violation from
   address *FC_address*]**
   > Meaning: There has been a name server protocol violation. Contact your
   > authorized maintenance provider.

[C] [8300.0006] [Zoning] [Dropping lock held by domain *domain_ID***, Merge requests
   outstanding]**
   > Meaning: Another switch has held the fabric zoning lock too long. It is being
   > released to accommodate another fabric zoning request.

[C] [8300.000A] [Zoning] [Fabric Busy, failing lock request from domain *domain_ID***]**
   > Meaning: Another switch in the fabric has requested the fabric zoning lock
   > from this switch while this switch is processing zoning commands.

[C] [8300.000B] [Zoning] [Failed to lock fabric, lock already held by switch with domain
   *domain_ID***]**
   > Meaning: Unable to complete the requested zoning command because fabric
   > zoning lock is already held by another switch in the fabric.

[C] [8300.000C] [Zoning] [Couldn't acquire lock from domain *domain_ID***]**
   > Meaning: Fabric may be changing, couldn't acquire lock. Wait for fabric to
   > stabilize, try again.

[C] [8300.000E] [Zoning] [Failing release of fabric lock held by switch with domain=
   *domain_ID***]**
   > Meaning: Unable to release fabric zoning lock which is held by another
   > switch in the fabric.

[C] [8400.0002] [Switch] [The switch is being reset - this may take several seconds]
   > Meaning: The switch is being reset.

[C] [8400.0003] [Switch] [The switch is being shutdown - this may take several seconds]
   > Meaning: The switch is being gracefully shutdown.

[C] [8400.0008] [Switch] [The switch will be reset in several seconds
   > Meaning: The switch is being reset as a result of a command from a user
   > interface.

[C] [8400.0009] [Switch] [The switch will hardreset in several seconds]
   > Meaning: A hardreset of the switch is pending.

[C] [8400.000B] [Switch] [The switch will be shutdown several seconds]
>   Meaning: The switch will be shutdown several seconds.

[C] [8400.000C] [Switch] [Configuration is being restored - this could take several minutes]
>   Meaning: When a complete configuration restore is done on a switch, a switch reset follows immediately to place the new configuration in effect.

[C] [8400.0011] [Switch] [The switch will be reset in several seconds due to a config restore]
>   Meaning: Switch management is processing a config restore command.

[C] [8400.0015] [Switch] [The switch will be reset in several seconds]
>   Meaning: The switch is being reset as a result of a command from a user interface.

[C] [8400.001C] [Switch] [The switch is being reset - this may take several seconds]
>   Meaning: The switch is being reset.

[C] [8400.001D] [Switch] [The switch is being shutdown - this may take several seconds]
>   Meaning: The switch is being shutdown.

[C] [8400.0027] [Switch] [Invalid user *account_name* **attempted to log into switch]**
>   Meaning: Invalid user login attempt.

[C] [8400.0028] [Switch] [Invalid user *account_name* **attempted to log into switch]**
>   Meaning: Invalid user login attempt.

[C] [8400.0029] [Switch] [User *account_name* **attempted to log into switch with an incorrect password]**
>   Meaning: Invalid user login attempt.

[C] [8400.002A] [Switch] [User *account_name* **attempted to log into switch with an incorrect password]**
>   Meaning: Invalid user login attempt.

[C] [8400.002E] [Switch] [*number_of_zone_members* **zone members are being saved - this may take several seconds]**
>   Meaning: Saving a large zoning database takes some time.

[C] [8400.002F] [Switch] [Zoning database of over 3000 zone members may damage certain non-QLogic switches]

        Meaning: The zoning database consists of over 3000 zone members. Not all vendors support a large configuration like this. Problems could arise if the fabric includes non-QLogic switches.

[C] [8400.0030] [Switch] [Zoning edit session has been preempted by a zoning merge]

        Meaning: A zoning edit session has been preempted by a zone merge. The zoning edit session has been canceled.

[C] [8400.003C] [Switch] [Network setup is changing - may lose connection - admin being released automatically]

        Meaning: Changes have been made to the network configuration which may interrupt your connection to the switch.

[C] [8400.003D] [Switch] [Invalid user *account_name* attempted to log into switch]

        Meaning: Invalid user login attempt.

[C] [8600.0009] [PortApp] [Port: *port_number*] [Link reset (LR) to be performed on port *port_number*.]

        Meaning: The port will perform a link reset (LR) due to loss of credit issue.

[C] [8600.000A] [PortApp] [Port: *port_number*] [Link reset (LR) to be performed on port *port_number*.]

        Meaning: The port will perform a link reset (LR) due to loss of credit issue.

[C] [8600.000B] [PortApp] [Port: *port_number*] [Link reset (LR) to be performed on port *port_number*.]

        Meaning: The port will perform a link reset (LR) due to loss of credit issue.

[C] [8600.0013] [PortApp] [Port: *port_number*] [EV_MEDIA_ID_FAULT event received invalid vendor data from media device for port *port_number*]

        Meaning: The switch could not read and verify the media module ID. This may indicate a discovery error or a bad checksum in the serial ID. Other possibilities include an improperly installed media module or an internal media I/O hardware fault.

[C] [8600.0014] [PortApp] [Port: *port_number*] [Invalid vendor data from media device for port *port_number*]

        Meaning: The switch could not read and verify the media module ID. This may indicate a discovery error or a bad checksum in the serial ID. Other possibilities include an improperly installed media module or an internal media I/O hardware fault.

[C] [8600.0015] [PortApp] [Port: *port_number***] [Unresponsive device** *device_al_pa* **on port** *port_number* **removed from the fabric.]**

> Meaning: A device on the loop port did not take a OPN off the loop destined for it. This suggests either the device has been physically removed or is faulty. It has been removed from \the fabric nameserver.

[C] [8700.0007] [EPort] [Port: *port_number***] [Received frame from address not in Access Control List (ACL) hard zone (src address =** *FC_address***, dest address =** *FC_address***)]**

> Meaning: The destination for the receive frame is in an ACL zone and the source is not. The frame will not be forwarded.

[C] [8700.000D] [EPort] [Port: *port_number***] [Resetting Inter-Switch Link (ISL), a time out value has been reconfigured.]**

> Meaning: The Resource Allocation (R_A_TOV) or Error Detect (E_D_TOV) timeout value has been reconfigured. E_Ports will be automatically reset to inform the neighbor switch of the change.

[C] [8700.000E] [EPort] [Port: *port_number***] [InteropCredit value was reconfigured, resetting port.]**

> Meaning: The InteropCredit parameter has changed. The affected port will be automatically reset.

[C] [8700.000F] [EPort] [Port: *port_number***] [Broadcast frame received & broadcast disabled, discarding broadcast frames.]**

> Meaning: Broadcast is disabled and the switch has received a broadcast frame. Enable broadcast to receive broadcast frames.

[C] [8700.0010] [EPort] [Port: *port_number***] [Inter-Switch Link (ISL) unstable. ISL init will be held back until ISL up time is 5 seconds]**

> Meaning: The ISL is unstable indicating that the media module or the cable is bad.

[C] [8F00.000C] From SANbox Manager: Fabric Status *status*

> Meaning: The severity of the fabric status has changed. The description field will show the reason for fabric status.

[C] [8F00.000D] From SANbox Manager: Switch Status *status*

> Meaning: The severity of the switch status has changed. The description field will show the reason for the switch status.

[C] [8F00:000E] From SANbox Manager: Link Status *status*

> Meaning: The severity of the link status has changed. The description field will show the reason for link status.

3.3
Warning Events

[W] [8400.0007] [Switch] [Attempted unauthenticated login username *account_name***]**
>   Meaning: A login was attempted with an account name that was not in the list of allowable users of Switch Management.

[W] [8400.0018] [Switch] [User *account_name* **login rejected - maximum logins already in use]**
>   Meaning: The attempted login was rejected because there are too many sessions. There may be SANbox Manager or Application Programming Interface (API) sessions open on the switch that are no longer in use.

[W] [8400.001F] [Switch] [User *account_name* **login rejected - maximum logins already in use]**
>   Meaning: The attempted login was rejected because there are too many sessions. There may be SANbox Manager or Application Programming Interface (API) sessions open on the switch that are no longer in use.

[W] [8400.0020] [Switch] [User *account_name* **login rejected - maximum logins already in use]**
>   Meaning: The attempted login was rejected because there are too many sessions. There may be SANbox Manager or Application Programming Interface (API) sessions open on the switch that are no longer in use.

[W] [8400.0021] [Switch] [User *account_name* **login rejected - maximum logins already in use]**
>   Meaning: The attempted login was rejected because there are too many sessions. There may be SANbox Manager or Application Programming Interface (API) sessions open on the switch that are no longer in use.

[W] [8400.0035] [Switch] [Retrying port *port_number* **that was Downed due to excessive errors]**
>   Meaning: A port that was disabled by the threshold monitoring application is periodically retried to see if the error conditions have been cleared.

[W] [8700.0009] [EPort] [Port: *port_number***] [Inter-Switch Link (ISL) communication error]**
>   Meaning: The neighbor switch that is connected to this ISL is indicating that it has lost our identity.

[W] [8700.000A] [EPort] [Port: *port_number***] [No response from remote switch, resetting Inter-Switch Link (ISL)]**

      Meaning: No communication has been received from the neighbor switch for some time indicating that it may not be functioning properly. The E_Port will be reset in an attempt to reestablish the ISL.

[W] [8F00.000C] [Fabric Status *status***]**

      Meaning: The severity of the fabric status has changed. The description field will show the reason for fabric status.

[W] [8F00.000D] [Switch Status *status***]**

      Meaning: The severity of the switch status has changed. The description field will show the reason for the switch status.

[W] [8F00:000E] [Link Status *status***]**

      Meaning: The severity of the link status has changed. The description field will show the reason for link status.

3.4
Informative Events

[I] [8200.0002] [mserver] [Port: *port_number*] **[Rejecting request from address** *FC_address*, **inband management is disabled on port** *port_number*]
> Meaning: A Management Server command was received on a port that is configured to be disabled for inband management requests.

[I] [8200.0100] [mserver] [Cannot map *number_of_characters* **characters to Switch Symbolic Name (max** *number_of_characters*)]
> Meaning: The RIELN management server command was processed, and the Interconnect Element Logical Name was registered. However, the registered name is of greater length than the maximum length allowed for the Switch Symbolic Name, so therefore the Switch Symbolic Name was not changed to match the registered name.

[I] [8200.0101] [mserver] [Cannot map non-printable characters to Switch Symbolic Name]
> Meaning: The RIELN management server command was processed, and the Interconnect Element Logical Name was registered. However, the registered name contains unprintable characters. These characters are not allowed for the switch symbolic name, therefore the switch symbolic name was not changed to match the registered name.

[I] [8200.0200] [mserver] [Rejecting request (GZM) for zone *zone_name* **containing unsupported alias member(s)**
> Meaning: The fabric zone server command GZM (Get Zone Member) was rejected because the requested zone member was an alias which is not defined in GS-3.

[I] [8200.0201] [mserver] [Rejecting request *command*:*command*]
> Meaning: A fabric zone server command was rejected for the reason detailed in the message. This can be caused by two users attempting to configure the switch or zoning database at the same time. Contact your authorized maintenance provider if the reason for the failure is not clear.

[I] [8200.0202] [mserver] [Rejecting request (GZS) for zone set *zone_set_name* **containing unsupported alias member(s)]**
> Meaning: The fabric zone server command GZS (Get Zone Set) was rejected because the requested zone set contains one or more members that are aliases. Since aliases are not defined in GS-3, the request could not be completed.

[I] [8300.0004] [zoning] [New Active ZoneSet *zone_set_name***]**
> Meaning: A new zone set has been activated

[I] [8400.0001] [Switch] [Modifying configured DomainID *domain_ID* **to negotiated value** *domain_ID***]**
> Meaning: The configuration is changing. The configured domain ID is changed to the negotiated value.

[I] [8400.0006] [Switch] [Admin mode for user *account_name* **was canceled by user** *account_name***]**
> Meaning: An Admin session was canceled by another user interface session that had the authority to do so.

[I] [8400.001A] [Switch] [Admin access has timed out for user *account_name***]**
> Meaning: The Admin session opened by the named user has timed out due to inactivity.

[I] [8400.0022] [Switch] [Successful login user *account_name* **with admin privilege]**
> Meaning: A user with admin authority has successfully logged into the switch. The IP address of the user is unknown.

[I] [8400.0023] [Switch] [Successful login user *account_name* **with admin privilege]**
> Meaning: A user with admin authority has successfully logged into the switch. The IP address of the user is unknown.

[I] [8400.0024] [Switch] [Successful login user *account_name* **without admin privilege]**
> Meaning: A user without admin authority has successfully logged into the switch. The IP address of the user is unknown.

[I] [8400.0025] [Switch] [Successful login user *account_name* **without admin privilege]**
> Meaning: A user without admin authority has successfully logged into the switch. The IP address of the user is unknown.

[I] [8400.0026] [Switch] [A zoning configuration edit session has been canceled]
> Meaning: The zoning configuration edit session has been canceled as a result of the Zoning Cancel command.

[I] [8400.002B] [Switch] [User login *account_name* **is being closed - In-Band connections have been disabled]**
> Meaning: The session has been closed as a result of a configuration change.

[I] [8400.002C] [Switch] [User login session *session_ID* **user** *account_name* **has timed out]**
> Meaning: A user login session has ended because of inactivity.

[I] [8600.0006] [PortApp] [Port: *port_number***] [Online test passed, done =** *iterations_done***,**
req = *iterations_requested***]**

> Meaning: Online test passed showing the number of test iterations completed and requested.

[I] [8600.0007] [PortApp] [Port: *port_number***] [Cancelling Online Test]**

> Meaning: The online test was canceled.

[I] [8700.0002] [EPort] [In Fabric Reconfiguration]

> Meaning: Changes to the switch configuration are in progress.

[I] [8700.0003] [EPort] [Topology change, switch with domain ID *domain_ID* **joined the**
fabric]

> Meaning: A switch with the given domain ID has joined the fabric.

[I] [8700.0004] [EPort] [Port: *port_number***] [Remote Switch World Wide Name (WWN) is**
*switch_WWN***]**

> Meaning: A switch with the given domain ID has been discovered on the given port.

[I] [8700.0005] [EPort] [Port: *port_number***] [Inter-Switch Link (ISL) Offline]**

> Meaning: The given E_Port is offline possibly due to a loss of synchronization.

[I] [8700.0006] [EPort] [Port: *port_number***] [Reinitializing port previously isolated for**
reason *reason***]**

> Meaning: The E_Port that previously isolated for the stated reason is now reinitializing.

[I] [8700.0008] [EPort] [Link State Record (LSR) aged out for domain ID =*domain_ID***]**

> Meaning: A record in the Link State Database (LSDB) is being aged out. It will no longer be in the LSDB.

[I] [8F00.0006] From SANbox Manager: Fabric Removed

> Meaning: The user has removed a fabric from the application.

[I] [8F00.0007] From SANbox Manager: Switch Added

> Meaning: The application fabric discovery process has discovered a new switch in the fabric.

[I] [8F00.0008] From SANbox Manager: Switch Removed

> Meaning: The user has removed a switch from the display.

[I] [8F00.0009] From SANbox Manager: Link Added

        Meaning: The application fabric discovery process has discovered a new inter-switch link (ISL) in the fabric

[I] [8F00.000A] From SANbox Manager: Link Removed

        Meaning: A link has been removed from the display. This is either because the fabric discovery process has discovered that the link is no longer in the fabric, or because the user has deleted the link manually.

[I] [8F00.000B] From SANbox Manager: Login Changed

        Meaning: The login to the fabric has changed. The description field will show the reason for the change in the login.

[I] [8F00.000C] From SANbox Manager: Fabric Status *status*

        Meaning: The severity of the fabric status has changed. The description field will show the reason for fabric status.

[I] [8F00.000D] From SANbox Manager: Switch Status *status*

        Meaning: The severity of the switch status has changed. The description field will show the reason for the switch status.

[I] [8F00:000E] From SANbox Manager: Link Status *status*

        Meaning: The severity of the link status has changed. The description field will show the reason for link status.