

# Brocade® Intelligent Event Module™

## Intelligent Event Module Basics

The Brocade Intelligent Event Module (IEM) enables you to automate real-time monitoring of the Brocade® SAN fabric switches and capture the critical information you need for effective enterprise management.

### Events

The Brocade IEM provides ConsoleWorks® with a watch-list of text messages, including error codes, system warnings, and status alerts, produced by Brocade fabric switches. ConsoleWorks uses these messages, called Events, as the targets that it scans for in the data streams of your managed devices.

When ConsoleWorks detects an Event, it alerts you to the Event as it is happening, records the circumstances surrounding the Event, and automatically performs the default and customer-configured responses associated with that Event.

### Scans

IEMs come with Events pre-arranged in logical groupings, called Scans™. Working with a Scan—or a combination of Scans—instead of hundreds of individual Events simplifies managing Events across your enterprise.

## Brocade IEM at a Glance

|                     |   |
|---------------------|---|
| Events:             | 86  |
| Scans:              | 1   |
| Filename:           | cw_scan-brocade.bin   |
| License Required:   | CONWRKS-DB-BROCADE.lic  |
| Connector Required: | Serial, Telnet, or Syslog/Telnet-on-Demand (a Syslog connection used to monitor switches necessitates a Telnet-on-Demand connection to manage switches) |

## Using the Brocade IEM

To use this IEM, download it from the TDi web site, import it into ConsoleWorks, and then associate Scans from the IEM with the switches you want to manage.

When you associate Scans with a switch, you are specifying that ConsoleWorks monitor the data streams of this switch for the Events contained in those Scans.

**Note:** You must obtain a license for the Brocade IEM prior to using the module. The same license can be used to run the Brocade IEM and the Brocade SNMP IEM. To obtain the license, contact your TDi sales representative ([sales@tditx.com](mailto:sales@tditx.com)).

## Download the IEM

1. On the TDi website ([www.tditx.com](http://www.tditx.com)), click **Customer Care > Downloads > Servers/IEM**.
2. On the Customer Downloads page, click the [ConsoleWorks](#) link appropriate for your version of ConsoleWorks.
3. On the Connect to support2.tditx.com dialog box, enter your user name and password. To obtain a user name and password, contact a Customer Care specialist ([support@tditx.com](mailto:support@tditx.com)).
4. On the Software Support Downloads page, click the [Intelligent Event Modules](#) link.
5. Locate the row for Brocade IEM.
6. In the Link column for that row, click [BIN](#).
7. Save the file (cw\_scan-brocade.bin) to a directory accessible from your client workstation.

## Import the IEM

1. On the ConsoleWorks main menu, click **admin > Database > Import IEM**.
2. On the Import IEM page, click **Browse**.
3. Locate and click **cw\_scan-brocade.bin**.
4. Click the **Import** button.

## Associate the Scans

Associate the Scans with the devices you want ConsoleWorks to monitor. ConsoleWorks offers you the following options for associating Scans:

- Associate individual Scans with one or more devices.
- Associate multiple Scans with one or more devices.
- Create a Scan containing only the Events you want monitored and associate this customized Scan with one or more devices.

**Note:** While you can associate any Scan with any application, system, or device, only associate a Scan with the application, system, or device appropriate for that Scan. For instance, associate only Cisco Scans with Cisco switches and Brocade Scans with Brocade switches.

For detailed instructions on associating Scans, please refer to the *ConsoleWorks Admin/User Guide*.

## Scans Available in the Brocade IEM

The Brocade IEM contains a single Scan that alerts you to the following conditions in your managed devices:

- Controller Issues
- Memory/Cache Limitations and Failures
- Firmware
- Environmental Issues
- SCSI Availability and Issues
- Device Failure
- Mirrorset Issues
- Diagnostic Data
- Battery Status

## Sample Events

The Brocade IEM provides you with names, explanations, and causes for all 86 SAN fabric switch Events.

The following section displays samples of the information you receive for each Event in the Brocade IEM.

### Sample Event 1

**Event Name:** ERR386F

**Explanation:** ASIC, GBIC module or fiber cable failure

**Cause:** For portLoopbackTest and crossPortTest: Port failed to receive frame within timeout period. For centralMemoryTest: Port failed to detect an interrupt within the timeout period.

### Sample Event 2

**Event Name:** ERR4040F

**Explanation:** ASIC failure

**Cause:** ASIC register or ASIC SRAM did not respond to an ASIC data access

## Additional Information

For additional product information or to receive a free, live ConsoleWorks demonstration, please call 1.800.695.1258 or visit our website at [www.tditx.com](http://www.tditx.com).