



INTELLIGENT EVENT MODULE BASICS

The Brocade Silkorm 4.2 Intelligent Event Module™ (IEM) enables you to automate real-time monitoring of Silkorm® fabric switches running the Brocade® Fabric operating system (version 4.2) and to capture the critical information you need for effective enterprise management.

The Brocade Silkorm 4.2 IEM provides ConsoleWorks® with a watch-list of text messages, including error codes, switch warnings, and status alerts, produced by Silkorm 12000, 24000, 3900, 3850, or 3250 fabric switches. ConsoleWorks watches for these messages, called Events, in the data streams of your managed switches.

Events

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 or 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 SILKORM 4.2 IEM AT A GLANCE

Events:	868
Scans:	1 Master 6 Event Severity
Filename:	<code>cw_iem-fa_brocade42-0001.bin</code>
License Required:	<code>CONWRKS-DB-BROCADE.lic</code>
Connector Required:	Serial, Telnet, or Syslog/Telnet on Demand

Note: If you use a Syslog connector to monitor the switches, you must use a Telnet on Demand connector to manage the switches.

USING THE BROCADE SILKORM 4.2 IEM

To use this IEM, complete the following tasks:

1. Download the IEM from the TDi web site.
2. Import the IEM into ConsoleWorks.
3. Associate the Scans from the IEM with the switches you want to manage.

To Download the IEM

1. Install the license for the Brocade Silkorm 4.2 IEM. To obtain this license, contact your TDi Solutions Team Manager (sales@tditx.com).
2. Move to the TDi web site (www.tditx.com/support_iemdownloads.asp).
3. On the Product Downloads page, locate and click **Brocade Silkorm 4.2**.
4. In the Connect to support2.tditx.com dialog box, enter your User name and Password, and click **OK**. To obtain a User name and Password, contact TDi Support (support@tditx.com).
5. Save the file (`cw_iem-fa_brocade42-0001.bin`) to a directory accessible from your client workstation.

To Import the IEM

1. On the ConsoleWorks main menu, click **Admin > Database > Import IEM**.
2. On the Import IEM page, click **Browse**.
3. On the Choose file dialog box, locate and double-click `cw_iem-fa_brocade42-0001.bin`.
4. On the Import IEM page, click **Import IEM**, and wait for the **IEM import completed** message to appear on the page before associating the IEM's Scans.

To Associate the Scans

Associate the Scans with the switches you want ConsoleWorks to monitor. When you associate Scans with a switch, you are specifying that ConsoleWorks scan the data streams of that switch for the Events contained in the Scans.

Example: To associate BROCADE_CRITICAL Scan

1. On the ConsoleWorks main menu, click **Manage > Scans > Show Scans**.



2. On the Show Scans page, in the Scans column, click **BROCADE_CRITICAL**.
3. On the Scan: BROCADE_CRITICAL page, in the Unassociated Consoles column, select the check boxes next to the names of the managed switches you want to associate with the Scan.
4. Click **Update Scan**.

For detailed instructions on associating Scans, please refer to the ConsoleWorks user's guide.

SCANS AVAILABLE IN THE BROCADE SILKWORM 4.2 IEM

The Brocade Silkorm 4.2 IEM contains a Master Scan and six Event Severity Scans.

Master Scan

The Master Scan, **BROCADE**, is the top-level Scan. It references all the other Scans in the IEM. When you associate the Master Scan with a switch, you are specifying that ConsoleWorks scan the data streams of that switch for any of the IEM's 868 Events.

Event Severity Scans

The Brocade Silkorm 4.2 IEM contains six Event Severity Scans. Use one or more of these Scans to monitor switches for Events based on their Severity level.

The IEM provides the following Event Severity Scans:

- BROCADE_PANIC 41 Events
- BROCADE_CRITICAL 201 Events
- BROCADE_ERROR 103 Events
- BROCADE_WARNING 362 Events
- BROCADE_INFO 153 Events
- BROCADE_DEBUG 8 Events

SAMPLE BROCADE SILKWORM 4.2 IEM EVENTS

The Brocade Silkorm 4.2 IEM provides you with names, message texts, Severity ratings, probable causes, and recommended responses for Events produced by Silkorm switches.

The following section displays samples of the information you receive for each Event in the Brocade Silkorm 4.2 IEM.

Sample Event 1

Name: BROCADE_PANIC_QCREATE
Message: Switch: 12000, Panic PANIC-QCREATE, 0, mqCreate failed
Severity: PANIC
Probable Cause: Failed to create a message queue. Further details about this error are displayed on the console.
Response: Copy the console output, run supportshow, and contact your switch service provider.

Sample Event 2

Name: BROCADE_EM-BLADE_ERROR
Message: Switch: 12000, Warning EM-BLADE_ERROR, 3, Sysctrl reports error status for blade ID 8 for the blade 6
Severity: WARNING
Probable Cause: The system controller has encountered a blade with an unknown ID in the slot specified. This message is only valid for the Silkorm 12000 and 24000.
Response: If the blade ID listed is not correct, then the FRU header for the blade is corrupted and the blade must be replaced. For the Silkorm 12000, the blade ID should be 1 for a CP blade, and 2 for a port blade. For the Silkorm 24000, the blade ID should be 5 for a CP blade and 4 for a port blade.

© 2007 TECSys Development, Inc. The information in this document is provided by TECSys Development, Inc. as-is without warranty of any kind and is subject to change without notice. The warranties for TECSys Development, Inc. solutions are set forth in the limited warranty statements accompanying such solutions. Nothing herein shall be construed as constituting an additional warranty. All products or company names mentioned in this document are trademarks or registered trademarks of their respective owners. Portions of the technology within the ConsoleWorks server are protected under US Patent number 6,505,245. ConsoleWorks is a registered trademark of TECSys Development, Inc.