



INTELLIGENT EVENT MODULE BASICS

The McDATA Sphereon ES4500 Intelligent Event Module (IEM) enables you to automate real-time monitoring of McDATA® Sphereon™ ES4500 switches and capture the critical information you need for effective enterprise management.

The McDATA Sphereon ES4500 IEM provides *ConsoleWorks*® with a watch-list of text messages, including error codes, system warnings, and status alerts, produced by the Sphereon ES4500 fabric switch. *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.

MCDATA SPHEREON ES4500 IEM AT A GLANCE

Events:	71
Scans:	1 Master 3 Event Severity
Filename:	<code>cw_iem-mcdata_es4500-0000.bin</code>
License Required:	<code>CONWRKS-DB-MCDATA.lic</code>
Connector Required:	Syslog

USING THE MCDATA SPHEREON ES4500 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 McDATA Sphereon ES4500 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 **McDATA Enterprise Sphereon ES4500**.
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-mcdata_es4500-0000.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-mcdata_es4500-0000.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 ES4500_MAJOR Scan

1. On the *ConsoleWorks* main menu, click **Manage > Scans > Show Scans**.
2. On the Show Scans page, in the Scans column, click **ES4500_MAJOR**.
3. On the Scan: ES4500_MAJOR 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 MCDATA SPHEREON ES4500 IEM

The McDATA Sphereon ES4500 IEM contains a Master Scan and three Event Severity Scans.

Master Scan

The Master Scan, **ES4500**, 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 71 Events.

Event Severity Scans

The McDATA Sphereon ES4500 IEM contains three Event Severity Scans. Use one or more of these Scans to monitor Sphereon switches for Events based on their Severity level.

The IEM provides the following Event Severity Scans:

- ES4500_MAJOR 23 Events
- ES4500_MINOR 6 Events
- ES4500_INFORMATIONAL 42 Events

SAMPLE MCDATA SPHEREON ES4500 IEM EVENTS

The McDATA Sphereon ES4500 IEM provides you with names, message texts, Severity ratings, explanations, causes, and recommended responses for Events produced by McDATA Sphereon switches.

The following section displays samples of the information you receive for each Event in the McDATA Sphereon ES4500 IEM.

Sample Event 1

Name: ES4500_FWFAULT
Message: 411
Severity: MAJOR
Explanation: Firmware fault.
Cause: Switch firmware encountered an unexpected condition and dumped operating state information to FLASH memory. The switch performs a software reset, during which all attached Fibre Channel devices are momentarily disrupted. Log out, and then log back in.
Response: Perform the data collection procedure and return the CD to McDATA support personnel.

Sample Event 2

Name: ES4500_Fanfail_First
Message: 300
Severity: MAJOR
Explanation: One cooling fan failed.
Cause: One cooling fan failed. The green status LED associated with the fan extinguishes. The remaining fans are sufficient to cool the switch until the failed fan is replaced.
Response: Replace the fan at the earliest possible convenience.

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