



INTELLIGENT EVENT MODULE BASICS

The McDATA Sphereon ES4300 Intelligent Event Module (IEM) enables you to automate real-time monitoring of McDATA® Sphereon™ ES4300 switches and capture the critical information you need for effective enterprise management.

The McDATA Sphereon ES4300 IEM provides *ConsoleWorks*® with a watch-list of text messages, including error codes, system warnings, and status alerts, produced by the Sphereon ES4300 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 ES4300 IEM AT A GLANCE

Events:	59
Scans:	1 Master 3 Event Severity
Filename:	<code>cw_iem-mcdata_es4300-0000.bin</code>
License Required:	<code>CONWRKS-DB-MCDATA.lic</code>
Connector Required:	Syslog

USING THE MCDATA SPHEREON ES4300 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 ES4300 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 ES4300**.
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_es4300-0000.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_es4300-0000.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 ES4300_MAJOR Scan

1. On the *ConsoleWorks* main menu, click **Manage > Scans > Show Scans**.
2. On the Show Scans page, in the Scans column, click **ES4300_MAJOR**.
3. On the Scan: ES4300_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 ES4300 IEM

The McDATA Sphereon ES4300 IEM contains a Master Scan and three Event Severity Scans.

Master Scan

The Master Scan, **ES4300**, 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 59 Events.

Event Severity Scans

The McDATA Sphereon ES4300 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:

- ES4300_MAJOR 18 Events
- ES4300_MINOR 6 Events
- ES4300_INFORMATIONAL 35 Events

SAMPLE MCDATA SPHEREON ES4300 IEM EVENTS

The McDATA Sphereon ES4300 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 ES4300 IEM.

Sample Event 1

Name: ES4300_PWRUPDIAG
Message: 400
Severity: MAJOR
Explanation: Power-up diagnostics failure.
Cause: Power-on self-tests (POSTs) detected a power-up failure as indicated in the event data.
Response: A control processor (CTP) card failure is indicated. Replace the switch.

Sample Event 2

Name: ES4300_MAXINTERSWITCHHOP
Message: 062
Severity: INFORMATIONAL
Explanation: Maximum interswitch hop count exceeded.
Cause: Fabric controller software detected a path to another switch or director in the Fabric that traverses more than seven interswitch links (ISLs or hops). This path may result in Fibre Channel frames persisting in the fabric longer than timeout values allow.
Response: Reconfigure fabric connections so the path between any two switches or directors traverses no more than seven ISLs.

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