



INTELLIGENT EVENT MODULE BASICS

The Nortel BayStack 450 Intelligent Event Module (IEM) enables you to automate real-time monitoring of Nortel® BayStack™ 450 switches and capture the critical information you need for effective enterprise management.

The Nortel BayStack 450 IEM provides *ConsoleWorks*® with a watch-list of text messages drawn from the object identifiers (OIDs) of the BayStack 450 switch. *ConsoleWorks* watches for these messages in the SNMP notifications (*traps*) received from agents running on your managed switches. These messages are called Events.

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.

NORTEL BAYSTACK 450 IEM AT A GLANCE

Events:	34
Scans:	1 Master 1 Event Severity
Filename:	<code>cw_iem-nortel_bay450-0002.bin</code>
License Required:	<code>CONWRKS-DB-BAYSTACK.lic</code>
Connector Required:	SNMP

USING THE NORTEL BAYSTACK 450 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 Nortel BayStack 450 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 **Nortel BayStack 450**.
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-nortel_bay450-0002.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-nortel_bay450-0002.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 Nortel 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 the BAY450_MAJOR Scan

1. On the *ConsoleWorks* main menu, click **Manage > Scans > Show Scans**.
2. On the Show Scans page, in the Scans column, click **BAY450_MAJOR**.
3. On the Scan: BAY450_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 NORTEL BAYSTACK 450 IEM

The Nortel BayStack 450 IEM contains a Master Scan and one Event Severity Scan.

Master Scan

The Master Scan, **BAY450**, 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 stream of that switch for any of the IEM's 34 Events.

Event Severity Scan

The Nortel BayStack 450 IEM contains one Event Severity Scan: **BAY450_MAJOR**. This Scan contains 34 Events. Use this Scan to monitor SNMP traps from a Nortel switch for messages designated Severity: MAJOR.

SAMPLE NORTEL BAYSTACK 450 IEM EVENTS

The Nortel BayStack 450 IEM provides you with names, message texts, Severity ratings, OIDs, and explanations for Events occurring on BayStack 450 switches.

The following section displays samples of the information you receive for each Event in the Nortel BayStack 450 IEM.

Sample Event 1

Name: BAY450_LINKDOWN

Message: Sending protocol entity recognized a failure in one of the communication links.

Enterprise: 1.3.6.1.2.1.11
Tag Value: *
Specific Value: 2

Severity: MAJOR

OID: 1.3.6.1.2.1.11.2

Explanation: A linkDown trap signifies that the sending protocol entity recognizes a failure in one of the communication links represented in the agent's configuration.

Sample Event 2

Name: BAY450_S5CTRHOTSWAP

Message: A component of the sub-component was inserted or deinserted in the chassis.

Enterprise: 1.3.6.1.4.1.45.5.45.1.6.2.4
Tag Value: *
Specific Value: 1

Severity: MAJOR

OID: 1.3.6.1.4.1.45.5.45.1.6.2.4.1

Explanation: This trap is sent only once when the condition is first detected. The following values are returned:

s5ChasCOMType – the type of the component (or sub-component) that was inserted or deinserted, with the instance identifying the group, component, and sub component.

s5ChasComOperState – the operational status of the component or sub-component, with the instance identifying the group, component, and sub-component. The value is removed(3) when the item is removed.

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