



INTELLIGENT EVENT MODULE BASICS

The Juniper Networks JUNOS 7.1 Intelligent Event Module (IEM) enables you to automate real-time monitoring of Juniper Networks® JUNOS 7.1 operating system and capture the critical information you need for effective enterprise management.

The Juniper Networks JUNOS 7.1 IEM provides *ConsoleWorks*® with a watch-list of text messages, including error codes, system warnings, and status alerts, produced by JUNOS 7.1. *ConsoleWorks* watches for these messages, called Events, in the data streams of the J-Series™, M-Series™, and T-Series™ routers.

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.

JUNIPER NETWORKS JUNOS 7.1 IEM AT A GLANCE

Events:	910
Scans:	1 Master 7 Event Severity
Filename:	<code>cw_iem-juniper_junos-0002.bin</code>
License Required:	<code>CONWRKS-DB-JUNOS.lic</code>
Connector Required:	Syslog

USING THE JUNIPER NETWORKS JUNOS 7.1 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 routers you want to manage.

Download the IEM

1. Obtain a license for the Juniper Networks JUNOS 7.1 IEM. To obtain this license, contact TDI (sales@tditx.com).
2. Connect to the TDI web site: (www.tditx.com/support_iemdownloads.asp).
3. On the Product Downloads page, locate and click **Juniper Networks JUNOS 7.1**.
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-juniper_junos-0002.bin`) to a directory accessible from your client workstation.

Import the IEM

1. On the main menu:
 - (*ConsoleWorks* 3.x) click **Admin > Database > Import IEM**.
 - (*ConsoleWorks* 4.0) click **Events > IEMs**.
2. On the Import IEM page, click **Browse**.
3. On the Choose file dialog box, locate and double-click `cw_iem-juniper_junos-0002.bin`.
4. On the Import IEM page, click **Import IEM**, and wait for the **IEM Import Completed** or the **Import Successful** message to appear before attempting to associate Scans.

Associate the Scan

Associate the Scans with the Juniper Networks routers you want monitored. When you associate Scans with a router, you are specifying that *ConsoleWorks* scan the data streams of that router for the Events contained in the Scans.

Example: To associate Scan JUNOS_CRITICAL (*ConsoleWorks* 3.x)


1. On the *ConsoleWorks* main menu, click **Manage > Scans > Show Scans**.
2. On the Show Scans page, in the Scans column, click **JUNOS_CRITICAL**.
3. On the Scan: JUNOS_CRITICAL page, in the Unassociated Consoles column, select the check



boxes next to the names of the managed routers you want to associate with the Scan.

4. Click **Update Scan**.

Example: To associate Scan JUNOS_CRITICAL (ConsoleWorks 4.0)

1. On the main menu, click **Events > Scans > Edit**.
The Edit Scan page appears.
2. On the Name drop-down list, click **JUNOS_CRITICAL**.
3. Click , then click **Add**.
The Add Consoles selector appears.
4. Select the Consoles you want associated with the Scan, review your choices in the Selected Consoles window, and click **OK**.
5. Click **Save**.

SCANS AVAILABLE IN THE JUNIPER NETWORKS JUNOS 7.1 IEM

The Juniper Networks JUNOS 7.1 IEM contains a Master Scan and seven Event Severity Scans.

Master Scan

The Master Scan, **JUNOS**, is the top-level Scan. It references all the other Scans in the IEM. When you associate the Master Scan with a router, you are specifying that ConsoleWorks scan the data streams of that device for any of the IEM's 910 Events.

Event Severity Scans

The JUNIPER NETWORKS JUNOS 7.1 IEM contains seven Event Severity Scans. Use one or more of these Scans to monitor Juniper Networks routers for Events based on their Severity level.

The IEM provides the following Event Severity Scans:

- JUNOS_ALERT 9 Events
- JUNOS_CRITICAL 29 Events
- JUNOS_EMERGENCY 25 Events
- JUNOS_ERROR 538 Events
- JUNOS_INFO 86 Events
- JUNOS_NOTICE 130 Events
- JUNOS_WARNING 93 Events

SAMPLE JUNIPER NETWORKS JUNOS 7.1 IEM EVENTS

The Juniper Networks JUNOS 7.1 IEM provides you with names, message texts, Severity ratings, explanations, and recommended responses for Events produced by JUNOS 7.1.

This section displays samples of the information you receive for each Event in the Juniper Networks JUNOS 7.1 IEM.

Sample Event 1

- Name:** JUNOS_ASP_IDS_INV_S_QUERY_VER
- Message:** ASP_IDS_INV_S_QUERY_VER
- Severity:** CRITICAL
- Explanation:** Intrusion detection services (IDS) received a request to show information from IDS tables. The request's version number did not match the version number of requests that IDS can service.
- Response:** Contact your technical support representative. Additional information available at <http://www.juniper.net/>

Sample Event 2

- Name:** JUNOS_UI_DBASE_CHECKOUT_FAIL
- Message:** UI_DBASE_CHECKOUT_FAIL
- Severity:** ALERT
- Explanation:** JUNOS management process (mgd) restarted after new JUNOS software installed. MGD found one or more inconsistencies during check of configuration database consistency at routing platform boot.
- Response:** None. Management process rebuilds database.

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