



Intelligent Event Module™ for Linux® Kernel 2.6

INTELLIGENT EVENT MODULE BASICS

The Linux Kernel 2.6 Intelligent Event Module (IEM) enables you to automate real-time monitoring of Linux® systems and capture the critical information you need for effective enterprise management.

The Linux Kernel 2.6 IEM provides ConsoleWorks® with a watch-list of text messages, including error codes, system warnings, and status alerts, produced by the Linux Kernel (version 2.6). ConsoleWorks watches for these messages, called Events, in the data streams of your managed systems.

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.

LINUX KERNEL 2.6 IEM AT A GLANCE

Events:	18104
Scans:	1 Master 5 Event Severity
Filename:	<code>cw_iem-oss_linux26-0004.bin</code>
License Required:	<code>CONWRKS-DB-LNXKRN.lic</code>
Connector Required:	Syslog, Telnet or Telnet on Demand

USING THE LINUX KERNEL 2.6 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 systems you want to manage.

Download the IEM

1. Obtain a license for the Linux Kernel 2.6 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 **Linux Kernel 2.6**.
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-oss_linux26-0004.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.x*) click **Events > IEMs**.
2. On the Import IEM page, click **Browse**.
3. On the Choose file dialog box, locate and double-click `cw_iem-oss_linux26-0004.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 systems you want to monitor. When you associate Scans with a system, you are specifying that ConsoleWorks scan the data streams of that system for the Events contained in the Scans.

Example: To associate Scan LNX26_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 **LNX26_CRITICAL**.
3. On the Scan: LNX26_CRITICAL page, in the Unassociated Consoles column, select the check boxes next to the names of the managed systems you want to associate with the Scan.
4. Click **Update Scan**.



Example: To associate Scan LNX26_CRITICAL (ConsoleWorks 4.1)

1. On the main menu, click **Events > Scans > Edit**.
The Edit Scan page appears.
2. On the Name drop-down list, click **LNX26_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 LINUX KERNEL 2.6 IEM

The Linux Kernel 2.6 IEM contains a Master Scan and five Event Severity Scans.

Master Scan

The Master Scan, **LNX26**, is the top-level Scan. It references all the other Scans in the IEM. When you associate the Master Scan with a system, you are specifying that ConsoleWorks scan the data streams of that system for any of the IEM's 18,104 Events.

Event Severity Scans

The Linux Kernel 2.6 IEM contains five Event Severity Scans. Use one or more of these Scans to monitor systems for Events based on their Severity level.

The IEM provides the following Event Severity Scans:

- LNX26_EMERGENCY 78 Events
- LNX26_ALERT 81 Events
- LNX26_CRITICAL 275 Events
- LNX26_ERROR 4775 Events
- LNX26_WARNING 12895 Events

SAMPLE LINUX KERNEL 2.6 IEM EVENTS

The Linux Kernel 2.6 IEM provides you with names, message texts, Severity ratings, and explanations for Events produced by the Linux Kernel 2.6.

This section displays samples of the information you receive for each Event in the Linux Kernel 2.6 IEM.

Sample Event 1

Name: LNX26_FS_E3-SUPER_00783

Message: **EXT3-fs: cannot specify journal on remount**

Severity: ERROR

Explanation: Source File:
linux 2.6.11/fs/ext3/super.c
Source Line: 783

Sample Event 2

Name: LNX26_FS_E3-SUPER_00864

Message: **EXT3-fs: quotafile must be on filesystem root.**

Severity: ERROR

Explanation: Source File:
linux 2.6.11/fs/ext3/super.c
Source Line: 1072

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