



# Intelligent Event Module™ for Linux® Kernel 2.4

## INTELLIGENT EVENT MODULE BASICS

The Linux Kernel 2.4 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 2.4 IEM provides *ConsoleWorks*® with a watch-list of text messages, including error codes, component warnings, and status alerts, produced by the Linux Kernel (version 2.4). *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 2.4 IEM AT A GLANCE

Events:	18751
Scans:	1 Master 5 Event Severity
Filename:	<code>cw_iem-oss_linux24-0002.bin</code>
License Required:	<code>CONWRKS-DB-LNXKRN.lic</code>
Connector Required:	Serial, Telnet

## USING THE LINUX KERNEL 2.4 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.

### To Download the IEM

1. Install the license for the Linux Kernel 2.4 IEM. To obtain this license, contact your TDi Solutions Team Manager ([sales@tditx.com](mailto:sales@tditx.com)).
2. Move to the TDi web site ([www.tditx.com/support\\_iemdownloads.asp](http://www.tditx.com/support_iemdownloads.asp)).
3. On the Product Downloads page, locate and click **Linux Kernel 2.4**.
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](mailto:support@tditx.com)).
5. Save the file (`cw_iem-oss_linux24-0002.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-oss_linux24-0002.bin`.
4. On the Import IEM page, click **Import IEM**, and wait for the **IEM import completed** message to appear on the page before attempting to associate Scans.

### To Associate the Scans

Associate the Scans with the Linux systems you want *ConsoleWorks* 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 LNX24\_EMERGENCY

1. On the *ConsoleWorks* main menu, click **Manage > Scans > Show Scans**.
2. On the Show Scans page, in the Scans column, click **LNX24\_EMERGENCY**.
3. On the Scan: LNX24\_EMERGENCY 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**.

For detailed instructions on associating Scans, please refer to the *ConsoleWorks* user's guide.



## SCANS AVAILABLE IN THE LINUX KERNEL 2.4 IEM

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The Linux Kernel 2.4 IEM contains a Master Scan and five Event Severity Scans.

### Master Scan

The Master Scan, **LNX24**, 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 stream of that system for all of the IEM's 18,751 Events.

### Event Severity Scans

The Linux Kernel 2.4 IEM contains five Event Severity Scans. Use these Scans to monitor systems running Linux 2.4 for messages based on the Severity levels of Events.

The IEM provides the following Event Severity Scans:

- LNX24\_EMERGENCY 74 Events
- LNX24\_ALERT 188 Events
- LNX24\_CRITICAL 272 Events
- LNX24\_ERROR 4692 Events
- LNX24\_WARNING 13525 Events

## SAMPLE LINUX KERNEL 2.4 IEM EVENTS

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The Linux Kernel 2.4 IEM provides you with names, message texts, Severity ratings, and explanations for Events produced by systems running Linux 2.4.

The following section displays samples of the information you receive for each Event in the Linux Kernel 2.4 IEM.

### Sample Event 1

**Name:** LNX24\_KERN\_SYS\_00321  
**Message:** **system halted.**  
**Severity:** EMERGENCY  
**Explanation:** Source File:  
**linux 2.4.31/kernel/sys.c**  
Source Line: 321

### Sample Event 2

**Name:** LNX24\_FS\_E3-SUPER\_00612  
**Message:** **EXT3-fs: cannot specify journal on remount**  
**Severity:** ERROR  
**Explanation:** Source File:  
**linux 2.4.11/fs/ext3/super.c**  
Source Line: 612

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