



# Intelligent Event Module™ for Sun™ Solaris™ 10

## INTELLIGENT EVENT MODULE BASICS

The Sun Solaris 10 Intelligent Event Module™ (IEM) enables you to automate real-time monitoring of UltraSPARC® platforms running on the Solaris™ 10 operating system. Use this IEM to capture the critical information you need for effective enterprise management.

The Sun Solaris 10 IEM provides *ConsoleWorks*® with a watch-list of text messages, including error codes, system warnings, and status alerts, produced by the Solaris 10 kernel. *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.

## SUN SOLARIS 10 IEM AT A GLANCE

Events:	4329
Scans:	1 Master 3 Event Severity
Filename:	<code>cw_iem-sun_solaris10-0003.bin</code>
License Required:	<code>CONWRKS-DB-SOLARIS.lic</code>
Connector Required:	Serial or Telnet

## USING THE SUN SOLARIS 10 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 Sun Solaris 10 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 **Sun Solaris 10**.
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-sun_solaris10-0003.bin`) to a directory accessible from your client workstation.

## 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-sun_solaris10-0003.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.

## Associate the Scans

Associate the Scans with the 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 SOL10

1. On the *ConsoleWorks* main menu, click **Manage > Scans > Show Scans**.
2. On the Show Scans page, in the Scans column, click **SOL10**.
3. On the Scan: SOL10 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 SUN SOLARIS 10 IEM

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The Sun Solaris 10 IEM contains a Master Scan and three Event Severity Scans.

### Master Scan

The Master Scan, `SOL10`, 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 any of the IEM's 4,329 Events.

### Event Severity Scans

The Sun Solaris 10 IEM contains three Event Severity Scans. Use these Scans to monitor Solaris for messages based on the Severity levels of Events.

The IEM provides the following Event Severity Scans:

- SOL\_PANIC 359 Events
- SOL\_NOTE 835 Events
- SOL\_WARNING 3135 Events

## SAMPLE SUN SOLARIS 10 IEM EVENTS

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The Sun Solaris 10 IEM provides you with names, message texts, Severity ratings, source locations, and recommended responses for Events produced by the Solaris 10 kernel.

The following section displays samples of the information you receive for each Event in the Sun Solaris 10 IEM.

### Sample Event 1

**Name:** SOL10\_CPU\_SPITFIRE\_02867  
**Message:** `cpu_change_speed: current divisor can't be determined!`  
**Severity:** PANIC  
**Source File:** `on-src-20060501/usr/src/uts/sun4u/cpu/spitfire.c`  
**Source Line:** 2867  
**Conditional Event:** This event is located inside of a conditional code block. It is only reported if the software is compiled with the following condition enabled:  
  
`IF(def HUMMINGBIRD)`

### Sample Event 2

**Name:** SOL10\_IO\_SBDPMBBOX\_00467  
**Message:** `Domain shutdown is required to add a non-UltraSPARC-IV+ board into an all UltraSPARC-IV+ domain`  
**Severity:** WARNING  
**Source File:** `on-src-20060501/usr/src/uts/sun4u/serengeti/io/sbdp_mbox.c`  
**Source Line:** 467  
**Response:** Remove the non-UltraSPARC-IV+ board, shut down the domain, and then add the non-UltraSPARC-IV+ board.

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