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## **Cisco UCS Server System Event Log Viewer Utility User Guide**

For Cisco UCS C-Series Servers  
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## Preface

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This preface describes the organization and conventions of the *Cisco UCS Server System Event Log Viewer User Guide*.

## Organization

This guide is organized as follows:

Chapter Number	Chapter Title	Description
1	<a href="#">Introduction</a>	Contains an overview of the System Event Log Viewer utility.
2	<a href="#">Installing the Utility</a>	Contains information on installing the System Event Log Viewer utility.
3	<a href="#">Working with the Logs</a>	Contains information on the various tasks that you can perform using the System Event Log Viewer utility.
4	<a href="#">Troubleshooting</a>	Contains information on the problems that you might face while working with the System Event Log Viewer utility.

## Related Documentation

Documentation for Cisco UCS C-Series Rack-Mount Servers is available at the following URL:

<http://www.cisco.com/go/unifiedcomputing/c-series-doc>

## Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

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# CHAPTER 1

## Introduction

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This chapter discusses the following topics:

- [Overview of the Cisco UCS Server System Event Log Viewer Utility](#)
- [Supported Operating Systems and Versions](#)
- [Supported Browsers](#)
- [Supported Hardware Platforms](#)
- [Prerequisites for Running the Utility](#)

## Overview of the Cisco UCS Server System Event Log Viewer Utility

The Cisco UCS Server System Event Log Viewer (SEL Viewer) utility enables you to view all system event logs generated by the server. Available on the Server Configuration Utility (SCU) 2.0(1) CD, this utility is specifically designed to run in host-based operating systems for standalone servers.

When you open the utility, it first attempts to establish a connection with the CIMC. If a connection is not established, the utility runs in the offline mode. When a connection is established with the CIMC, the utility runs in online mode.

The SEL Viewer utility includes a graphical user interface (GUI) and a command line interface (CLI). However we recommend that you use the GUI on the server to view the most recently generated logs. When you do not want to access the GUI, you can use the CLI to view and take a snapshot of all logs that are generated and analyze it in the offline mode.

Using this utility, you can view, sort, and filter logs that are generated. In addition, using the GUI, you can even save log file details to a file outside the utility. The logs can be saved in a .csv or .bin file.

## Features of the SEL Viewer Utility GUI

The SEL Viewer utility GUI enables you to do the following:

- Sort event logs  
By default, the utility displays all events that have been recorded in the server. You can sort the records in each column. You can also adjust the width of each column.
- Filter event logs

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Using the **Filter** option, you can filter displayed events. You can filter the event logs based on severity, generator, or sensor type of the event.

- Work in offline and online modes
- Save the event logs to a file

You can choose to save the event logs to a file outside the SEL Viewer utility. You can save these events to as a .csv file or as a .bin file. For viewing and analyzing the events, you can open the .csv file with Microsoft Excel and the .bin file in the utility.

## **Features of the SEL Viewer Utility CLI**

The SEL Viewer utility CLI enables you to do the following:

- Save event logs to a file

You can save event logs as either a .csv file or as a .bin file.

- View event logs in different formats

You can view the system event logs in the following formats:

- HEX
- Text
- XML

- Clear event logs

You can clear all event logs from the utility and from the CIMC. This action is permanent and cannot be reverted.

## **Supported Operating Systems and Versions**

The SEL Viewer utility is supported on the following operating systems:

- Red Hat Enterprise Linux 5.3 (x86\_64)
- SUSE Linux Enterprise Server 11 (x86\_64)
- Microsoft Windows 2003 R2 (x86 and x64)
- Microsoft Windows 2008 R2 (x64)
- Microsoft Windows XP SP2 (supports only the offline mode of the SEL Viewer utility).

## **Supported Browsers**

The SEL Viewer utility is supported with the following browsers:

- Mozilla Firefox 3.5 and later on Red Hat Enterprise Server
- Mozilla Firefox 3.5 and later on SUSE Linux Enterprise Server
- Internet Explorer 7.0 and later on Microsoft Windows 2003 and 2008

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## Supported Hardware Platforms

The SEL Viewer utility is supported on the following Cisco server platforms:

- Cisco UCS C200 Server series
- Cisco UCS C210 Server series
- Cisco UCS C250 Server series
- Cisco UCS C460 Server series

These C-series servers must be compliant with the Intelligent Platform Management Interface Specification (IPMI) 2.0 to run this utility.

## Prerequisites for Running the Utility

Following are the prerequisites for the SEL Viewer utility:

- If you are running Windows 2003, you must manually start the IPMI driver before installing the SEL Viewer utility.
- Adobe Flash player Plug-in version 10.
- Java version 1.5 and above.

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## CHAPTER 2

# Installing the Utility

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This chapter discusses the following topics:

- [Overview of the Installation](#)
- [Installing the Utility on Microsoft Windows Systems](#)
- [Installing the Utility on Linux Servers](#)
- [Opening the Utility](#)

## Overview of the Installation

The SEL Viewer utility can be installed on Linux and Windows servers and systems. Before installing the utility, ensure that the IPMI driver is running and the service is enabled. If the IPMI service is not running, the utility will run in the offline mode.

Following are the topics discussed in this section:

- [Installing the Utility on Microsoft Windows Systems](#)
- [Installing the Utility on Linux Servers](#)

## Installing the Utility on Microsoft Windows Systems

You can install the SEL Viewer utility from the SCU CD.

To install the utility on Windows 2003 and 2008 systems, follow these steps:

- 
- Step 1** Boot to the Windows operating system.
  - Step 2** Ensure that the IPMI driver is installed and that the IPMI service is enabled.  
On Microsoft Windows 2008 R2 systems, the IPMI driver is installed, by default. On Microsoft Windows 2003 systems, you must install the IPMI driver and enable the service.
  - Step 3** To install the IPMI driver, go to **Control Panel > Add/Remove Program > Add/Remove Windows Components**.
  - Step 4** In the Windows Components Wizard, select **Management and Monitoring Tools**, and click **Next**.  
Allow the installation of the tools to complete. After the IPMI driver is installed, you must start the IPMI service.
  - Step 5** Open the command prompt window, and enter the following:

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**rundll32 ipmissetp,RemoveTheDevice**

**rundll32 ipmissetp,AddTheDevice**

- Step 6** Insert the SCU CD into the CD drive.  
The autorun component of the CD is initiated.
- Step 7** Click **SEL Viewer** to initiate the installation of the SEL Viewer utility.  
The installation wizard is launched.
- Step 8** Accept the End User License Agreement, and click **Next** to install the SEL Viewer utility.
- 



### Note

You can follow these steps to install the SEL Viewer utility on Windows XP operating systems. However, this operating system supports only the offline mode of the SEL Viewer utility. For more information on using the utility in the offline mode, see [Using the Online and Offline Modes](#).

---

## Installing the Utility on Linux Servers

To install the SEL Viewer utility on Linux servers, you must access the Cisco UCS SCU 2.0(1) CD and manually install the .rpm files.

To install the utility on Linux systems, follow these steps:

---

- Step 1** Boot to the Linux operating system and login as the root user.
- Step 2** Ensure that the IPMI driver is installed and that the IPMI service is enabled.
- Step 3** If the service is not running, enter the following command to start the IPMI service:  
**service ipmi start**
- Step 4** Insert the Cisco UCS SCU 2.0(1) CD or browse to the .rpm files on the CD.  
The .rpm files are available in the **Selviewer > Linux** folder.
- Step 5** To install the utility on Red Hat Enterprise Linux servers, run the following command:  
**rpm -Uhv selview-2.0-0.i386.rpm**
- Step 6** To install the utility on SUSE Linux Enterprise servers, run the following command:  
**rpm -Uhv selview-2.0-0.i586.rpm**  
This command initiates the installation of the utility.
- 

## Opening the Utility

To open the utility, follow these steps:

---

- Step 1** Ensure that the IPMI driver is enabled.

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This driver is essential to establish a connection between the utility and the CIMC. If this driver is not enabled, the utility will run in the offline mode.

- Step 2** Open the browser, and type either **`http://localhost:9099/index.html`** or **`http://<ip_address_of_host>:9099/index.html`**.

The SEL Viewer utility opens.

---

By default, the port number to launch the utility is set to 9099. You can modify this port number using the **`selview.cfg`** file. If you modify the port number, you must restart the SEL Viewer service.

To restart the SEL Viewer service on Windows systems, follow these steps:

---

- Step 1** Click **Start > Run**.
- Step 2** Type **`services.msc`**.  
The Services window opens.
- Step 3** Select **`selview`** and right-click.
- Step 4** Click **Restart**.  
The SEL Viewer service is started.
- 

To restart the SEL Viewer service on Linux servers, run the following command:

```
service selviewd restart
```

The SEL Viewer service is started.

---

## **Removing the Utility**

This section discusses the following topics:

- [Removing the Utility from Microsoft Windows Systems](#)
- [Removing the Utility on Linux Servers](#)

## **Removing the Utility from Microsoft Windows Systems**

To remove the utility from Windows systems, follow these steps:

---

- Step 1** Click **Start > All Programs**.
- Step 2** Click **Cisco > Unified Computing System > Uninstall Cisco SEL Viewer**.  
The SEL Viewer utility is removed from the system.
-

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## Removing the Utility on Linux Servers

Run the following command to remove the utility from Linux servers:

```
rpm -e selview
```



## CHAPTER 3

# Working with the Logs

---

This chapter discusses the following topics:

- [Overview of the Tasks](#)
- [Viewing the Logs](#)
- [Sorting the Logs](#)
- [Filtering the Logs](#)
- [Saving the Log Details](#)
- [Clearing the Logs](#)
- [Using the Online and Offline Modes](#)
- [Using the Command Line Interface](#)

## Overview of the Tasks

Using the SEL Viewer utility, you can perform the following tasks with the logs:

- View and sort logs
- Filter logs based on severity, event generator, and sensor information of the event.
- Save log details to a file outside the utility
- Switch between online and offline modes

## Viewing the Logs

When you start the utility, and if it is running in the online mode, you can view all logs that have been generated. On the top-right pane, the **Entries per page** field displays the number of events that are displayed on each page. Using this field, you can modify the number of events that are displayed on each page. You can select one of the following options:

- All
- 50
- 100
- 200

Each log entry has the following details displayed:

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- Record ID - The ID of the event.
- Timestamp - The time at which this event occurred. It is displayed in the yyyy-mm-dd hh:mm:ss format.
- Severity - It can be Critical, Non-Recoverable, Informational, Warning, or Normal.
- Generator - The generator of the event. It can be BIOS, CIMC, OEM or unknown.  
Events that have the generator listed as OEM are not decoded and are displayed with the HEX value.
- Sensor Information
- Event Description
- Event State

To view additional information on any specific log, double-click the log entry. The Record Information page is displayed.

You can use the << **First**, < **Prev**, **Next** >, and **Last** >> options to navigate across the pages of generated events. When you use these options, the **Page** field displays the number of the page that you are viewing the events on.

## Viewing the Summary of the Logs

In the top pane of the utility, a summary of all events that are generated is displayed. Information such as the total number of logs, number of critical logs, and number of non-recoverable logs is displayed.

You can also view the current SEL information by clicking **SEL > SEL Info**. The subsequent screen displays the following information:

- Total number of entries
- Percentage space left
- Timestamp of last added event
- Timestamp of last deleted event



### Note

---

In the offline mode, the **SEL Info** option is disabled.

---

## Sorting the Logs

When you open the utility in the online mode, all logs that have been generated are displayed. You can sort these log details to view the information in the format that suits you. You can click any column headers to sort the list of logs.

Alternatively, you can select a row and press **F9** to sort the logs based on the sensor type. For example, if you click an entry that is listed with chipset as the sensor type, and then press **F9**, all logs that have the sensor type specified as chipset are displayed.

## Filtering the Logs

In addition to sorting the logs, you can use the **Filter** option to view the logs that are important for you. You can filter the logs based on sensor type, generator, and severity.

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After you filter the logs with one criteria, subsequent filtering tasks occur within the results of the previous filtering task. For example, after filtering for logs that are marked as critical severity, if you select BMC as the generator, and then click **Go**, all logs that have the severity marked as Critical, and have BMC as the generator are displayed. To run a filtering task on the original set of logs, you must first click **Clear Filter**.

To filter the logs displayed, follow these steps:

- 
- Step 1** From the top pane of the utility, under **Filter**, select an option either for **Severity**, **Generator**, or **Sensor Info**.
- Step 2** To filter the list of events based on the severity, select one of the following options:
- None
  - Critical
  - Non-Recoverable
  - Informational
  - Warning
  - Normal
- Step 3** To filter the list of events based on the generator, select one of the following options:
- None
  - BMC
  - BIOS
  - OEM
  - Unknown
- Step 4** To filter the list based on the sensor type, enter the type of sensor in the text box.
- Step 5** Click **Go**. A progress bar indicates that the filtering task is in progress.
- The screen is updated with the logs filtered based on the criteria you selected. The bottom pane of the utility displays the total number of records that match the filtering criteria.
- Step 6** To clear the filtering criteria, click **Clear Filter**.
- 

## **Saving the Log Details**

Using the SEL Viewer utility, you can save the log details to a file outside the utility. You can save the file either as a .csv file or as a .bin file. When you save the log details to a .csv file, you can open it with Microsoft Excel. If you save the file with the .bin extension, you can open it later in this utility.

To save the log details to a file, follow these steps:

- 
- Step 1** Click **File > Save As**.
- Step 2** Select **Binary** or **Csv**.
- You are prompted to either save the file or find a program to open the file.
- Step 3** Click **Save**.

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**Step 4** Specify the location where you want the file to be saved and click **OK**.

---

When the utility is running in the offline mode, you can choose to open the log file and view it within this utility. Although you can save the log details in either the .csv or .bin format, to view the log details from a file within this utility, you can only use the .bin file.

## Opening a File

When the utility is in the offline mode, you can open the file that contains all the log information. You can open only the .bin file in this utility. Also, the .bin file should have been saved from the SEL Viewer utility earlier on, either through the GUI or the CLI.



### Note

In the offline mode, when you open a file that contains the logs from CIMC in the SEL Viewer utility, the **Save** option is disabled.

---

To open the saved log files, follow these steps:

---

**Step 1** Click **File > Open**.

**Step 2** In the dialog box that appears, specify the path of the file.  
Optionally, you can click **Browse** to locate the file.

**Step 3** Click **OK**.

The file is opened in the utility.

---

## Clearing the Logs

The utility provides you with an option to clear the logs from the utility and from the CIMC. After the logs are cleared from the utility and the CIMC, you cannot retrieve them. We recommend that you use the **Clear** option only when you are sure you want to clear all the logs from the CIMC.

To clear the logs from the utility, click **SEL > Clear**. You are prompted to confirm that you want to clear all SEL records. Click **OK** to clear all logs. All logs from the utility and from CIMC are cleared.

## Using the Online and Offline Modes

When the utility establishes a communication channel with the CIMC, it runs in the online mode. In this mode, you can view and work with the most recent logs that have been generated. If a communication channel is not established with the CIMC, this utility runs in the offline mode. In addition, you can run the SEL Viewer utility only in the offline mode on Windows XP SP2 systems.

Also, if you would prefer not to install the GUI on the server, you can use the CLI and capture a snapshot of all logs from the server and save it as a .bin file. You can then log in to the GUI of this utility on your system and analyze the file in the offline mode.

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In the offline mode, you cannot view the recent data. You can only open a .bin file that contains the log files displayed in the utility earlier on. In the offline mode, most options are disabled. You cannot save or clear the logs, and you cannot use the **SEL Info** option. However, you can attempt to establish a connection with the CIMC by clicking **SEL > Reload**.

## Using the Command Line Interface

The following table lists the commands that you can use to work with the event logs in the CLI of the SEL Viewer utility.

**Table 3-1** Command Description

Command	Description
<b>selview help</b>	Displays the help for the SEL Viewer Utility.
<b>selview [display show] {hex xml} {abc.bin}</b>	Displays the event log data in one of the following formats: <ul style="list-style-type: none"> <li>• Text</li> <li>• HEX</li> <li>• XML</li> </ul> If the filename is provided, then the event details are displays from the file.
<b>selview save abc.bin</b>	Saves the SEL data in a binary file.
<b>selview save abc.csv</b>	Saves the SEL data in a CSV file.
<b>selview clear</b>	Clears the event log details from the utility and from the CIMC. This action cannot be reverted.
<b>selview write abc.bin</b>	Reloads the SEL records. This command reads the contents from the .bin file and writes it back to the utility.

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## CHAPTER 4

# Troubleshooting

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This chapter describes a couple of problems that you might face while working with the SEL Viewer utility. It also lists the steps that you must follow to resolve the problem.

This chapter discusses the following topic:

- [Problem Scenarios](#)

## Problem Scenarios

Table 4-1 lists the problems that you might face while working with the SEL Viewer utility and the steps that you must take to resolve the problem.

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**Table 4-1 Problems and Resolutions**

<b>Problem</b>	<b>Causes</b>	<b>Resolution</b>
When the SEL Viewer utility is started on the server, a message stating that the utility will run in the offline mode is displayed.	<p>Following are the causes for this problem:</p> <ul style="list-style-type: none"> <li>The IPMI driver is not enabled or the IPMI service is not running.</li> </ul> <p>The IPMI driver and service must be enabled and running so that the SEL Viewer utility can connect with CIMC. If this service is not enabled, the utility cannot connect with CIMC. When the utility cannot connect with CIMC, a message stating that the utility will run in the offline mode is displayed.</p> <ul style="list-style-type: none"> <li>At installation, the SEL Viewer agent is installed. This service must be running for the utility to run in the online mode. If this service is stopped, then the utility runs in the offline mode.</li> </ul>	<p>Ensure that the IPMI driver is enabled, and the IPMI service is running.</p> <p>Open the SEL Viewer utility and click <b>Reload</b>. The utility will connect to the CIMC. If the connection is established to the CIMC, the utility will run in the online mode.</p> <p>If the IPMI service is installed and the service is running, and the utility is still in the offline mode, then you must determine if the SEL Viewer agent is running.</p> <p>On Windows systems, complete the following steps:</p> <ul style="list-style-type: none"> <li>Click <b>Start &gt; Control Panel &gt; Administrative Tools &gt; Services</b>.</li> <li>Determine if the SEL Viewer Agent service is running.</li> <li>If it is halted, select the service and click <b>Start</b>.</li> </ul> <p>On Linux servers, run the following command:</p> <p><b>service selviewd status</b></p> <p>This command displays if the SEL Viewer daemon is running or not. If it is not running, run the following command:</p> <p><b>service selviewd start</b></p> <p>Open the SEL Viewer utility and click <b>Reload</b>. The utility will connect to the CIMC.</p>
Log details saved in the .bin file cannot be opened in the SEL Viewer utility.	<p>You can open only those .bin files that have been previously saved from the SEL Viewer utility.</p> <p>If you saved the log files in a .bin file from a different utility, you cannot open that file in the SEL Viewer utility.</p>	<p>The SEL Viewer utility does not support opening .bin files that are not saved from the SEL Viewer utility.</p>

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<b>Problem</b>	<b>Causes</b>	<b>Resolution</b>
Recent event logs are not displayed in the utility.	The system event log could be full.	You will have to clear the event logs from the utility. However, clearing the events from the utility clears the events from the CIMC as well. If you want to retain some of the event details, then save the event details to a file, and then clear the logs.
The SEL Viewer utility does not launch when using the address, <a href="http://&lt;IP address&gt;:9099">http://&lt;IP address&gt;:9099</a>	The firewall is active on the host operating system.	Ensure that the firewall is disabled for incoming data for the port that SEL Viewer utility uses. In this case, the port number is 9099.

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