



## Using the System Event Archive

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This chapter describes how to use the System Event Archive (SEA). Release 12.2(33)SXH and later releases support the SEA.



**Note**

- For complete syntax and usage information for the commands used in this chapter, see the Cisco IOS Master Command List, Release 12.2SX, at this URL:  
[http://www.cisco.com/en/US/docs/ios/mcl/122sxmcl/12\\_2sx\\_mcl\\_book.html](http://www.cisco.com/en/US/docs/ios/mcl/122sxmcl/12_2sx_mcl_book.html)
- SEA is supported with Supervisor Engine 32, Supervisor Engine 720-10GE, and Supervisor Engine 720 with a CompactFlash adapter and a CompactFlash card (WS-CF-UPG=).



**Tip**

For additional information about Cisco Catalyst 6500 Series Switches (including configuration examples and troubleshooting information), see the documents listed on this page:

[http://www.cisco.com/en/US/products/hw/switches/ps708/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/hw/switches/ps708/tsd_products_support_series_home.html)

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## Understanding the System Event Archive

The primary method of discovering the cause of system failure is system messages. When system messages do not provide the information needed to determine the cause of a failure, you can enable debug traces and attempt to recreate the failure. However, there are several situations in which neither of the above methods provides an optimum solution:

- Reviewing a large number of system messages can be an inefficient method of determining the cause of a failure.
- Debug trace is usually not configured by default.
- You cannot recreate the failure while using debug trace.

- Using debug trace is not an option if the switch on which the failure has occurred is part of your critical network.

The SEA enables each of the CPUs on a switch to report events to the management processor using an out-of-band interface. Each event is logged in nonvolatile memory with a time stamp. You can retrieve the event log by accessing the bootflash on the device, or you can copy the log to another location such as a removable storage device.

The SEA maintains two files in the bootdisk, using up to 32 MB. These files contain the most recent messages recorded to the log:

- sea\_log.dat—Applications store the most recent system events in this file.
- sea\_console.dat—The most recent console messages are stored in this file.

These files are for system use and should not be removed.

## Displaying the SEA Logging System

To display the SEA logging system, perform this task:

Command	Purpose
Router# <b>show logging system</b> [ <b>disk</b>   <b>size</b> ]	Displays the contents of the SEA.  (Optional) Use the keyword <b>disk</b> to display the location where the SEA is stored. Use the keyword <b>size</b> to display the current size of the SEA.
Router# <b>clear logging system</b>	Removes the event records stored in the SEA.

The following example shows how to display the SEA:

```
Router# show logging system
SEQ: MM/DD/YY HH:MM:SS MOD/SUB: SEV, COMP, MESSAGE
=====
1: 01/24/07 15:38:40 6/-1 : MAJ, GOLD, syndiagSyncPinnacle failed in slot 6
2: 01/24/07 15:38:40 6/-1 : MAJ, GOLD, queryHyperionSynched[6]: Hyperion out of sync in sw_mode 1
3: 01/24/07 15:38:40 6/-1 : MAJ, GOLD, queryHyperionSynched[6]: Hyperion out of sync in sw_mode 1
4: 01/24/07 15:38:40 6/-1 : MAJ, GOLD, queryHyperionSynched[6]: Hyperion out of sync in sw_mode 1
5: 01/24/07 15:38:40 6/-1 : MAJ, GOLD, queryHyperionSynched[6]: Hyperion out of sync in sw_mode 1
6: 01/24/07 15:38:40 6/-1 : MAJ, GOLD, queryHyperionSynched[6]: Hyperion out of sync in sw_mode 1
7: 01/24/07 15:38:39 6/-1 : MAJ, GOLD, queryHyperionSynched[6]: Hyperion out of sync in sw_mode 1
```

The following example shows how to display the SEA logging system disk:

```
Router# show logging system disk
SEA log disk: sup-bootdisk:
```

The following example shows how to display the current size of the SEA:

```
Router# show logging system size
SEA log size: 33554432 bytes
```



