

# 16

## System Event Archive (SEA)

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**Note**

- For complete syntax and usage information for the commands used in this chapter, see these publications:  
[http://www.cisco.com/en/US/products/ps11846/prod\\_command\\_reference\\_list.html](http://www.cisco.com/en/US/products/ps11846/prod_command_reference_list.html)
- Cisco IOS Release 15.4SY supports only Ethernet interfaces. Cisco IOS Release 15.4SY does not support any WAN features or commands.

**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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## Information About 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.

## How to Display the SEA Logging System

To display the SEA logging system, perform this task:

Command	Purpose
Router# <b>show logging system</b> [disk   size]	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: bootdisk:
```

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

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

The following example shows how to clear the SEA:

```
Router# clear logging system
Clear logging system operation will take a while.
Do you want to continue? [no]: yes
Router#
```

# How to Copy the SEA To Another Device

To copy the SEA to another device, such as a removeable memory device, perform this task:

Command	Purpose
Router# <b>copy logging system <i>file_system</i></b>	Copies the contents of the SEA to the specified destination file system or process.

The valid values for *file\_system* are:

- **bootflash:**
- **disk0:**
- **disk1:**
- **ftp:**
- **http:**
- **https:**
- **rcp:**
- **slavebootflash:**
- **slavedisk0:**
- **slavedisk1:**
- **slavebootdisk:**
- **slavebootflash:**
- **bootdisk:**
- **bootflash:**
- **tftp:**

The following example shows how to copy the SEA to the disk0 file system:

```
Router# copy logging system disk0:
Destination filename [sea_log.dat]?
Copy in
progress...CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
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CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
33554432 bytes copied in 112.540 secs (298156 bytes/sec)
```

The following example shows how to copy the SEA using the remote file copy function (rcp):

```
Router# copy logging system rcp:
Address or name of remote host []? 192.0.2.1
Destination username [Router]? username1
Destination filename [sea_log.dat]? /auto/tftpboot-users/username1/sea_log.dat
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
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!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

33554432 bytes copied in 48.172 secs (696555 bytes/sec)

**Tip**

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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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