



Embedded Event Manager Commands

This module describes the commands that are used to set the Embedded Event Manager (EEM) operational attributes and monitor EEM operations.

The Cisco IOS XR software EEM functions as the central clearing house for the events detected by any portion of Cisco IOS XR software High Availability Services. The EEM is responsible for fault detection, fault recovery, and process the reliability statistics in a system. The EEM is policy driven and enables you to configure the high-availability monitoring features of the system to fit your needs.

The EEM monitors the reliability rates achieved by each process in the system. You can use these metrics during testing to identify the components that do not meet their reliability or availability goals, which in turn enables you to take corrective action.

For detailed information about the EEM concepts, configuration tasks, and examples, see the *Configuring and Managing Embedded Event Manager Policies* module in *System Monitoring Configuration Guide for Cisco 8000 Series Routers*.

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event manager directory user

To specify a directory name for storing user library files or user-defined Embedded Event Manager (EEM) policies, use the **event manager directory user** command in XR Config mode. To disable the use of a directory for storing user library files or user-defined EEM policies, use the **no** form of this command.

```
event manager directory user {library path | policy path}
no event manager directory user {library path | policy path}
```

Syntax Description	library Specifies a directory name for storing user library files.
	<i>path</i> Absolute pathname to the user directory on the flash device.
	policy Specifies a directory name for storing user-defined EEM policies.

Command Default No directory name is specified for storing user library files or user-defined EEM policies.

Command Modes XR Config mode

Command History	Release	Modification
	Release 7.0.12	This command was introduced.

Usage Guidelines Cisco IOS XR software supports only the policy files that are created by using the Tool Command Language (TCL) scripting language. The TCL software is provided in the Cisco IOS XR software image when the EEM is installed on the network device. Files with the .tcl extension can be EEM policies, TCL library files, or a special TCL library index file named tclindex. The tclindex file contains a list of user function names and library files that contain the user functions (procedures). The EEM searches the user library directory when the TCL starts to process the tclindex file.

User Library

A user library directory is needed to store user library files associated with authoring EEM policies. If you do not plan to write EEM policies, you do not have to create a user library directory.

To create user library directory before identifying it to the EEM, use the **mkdir** command in XR EXEC mode. After creating the user library directory, use the **copy** command to copy the .tcl library files into the user library directory.

User Policy

A user policy directory is essential to store the user-defined policy files. If you do not plan to write EEM policies, you do not have to create a user policy directory. The EEM searches the user policy directory when you enter the **event manager policy *policy-name* user** command.

To create a user policy directory before identifying it to the EEM, use the **mkdir** command in XR EXEC mode. After creating the user policy directory, use the **copy** command to copy the policy files into the user policy directory.

Task ID	Task ID	Operations
	eem	read, write

Examples This example shows how to set the pathname for a user library directory to /usr/lib/tcl on disk0:

```
RP/0/RP0/CPU0:router (config) # event manager directory user library disk0:/usr/lib/tcl
```

This example shows how to set the location of the EEM user policy directory to /usr/fm_policies on disk0:

```
RP/0/RP0/CPU0:router(config)# event manager directory user policy disk0:/usr/fm_policies
```

event manager environment

To set an Embedded Event Manager (EEM) environment variable, use the **event manager environment** command in XR Config mode. To remove the configuration, use the **no** form of this command.

```
event manager environment var-name [var-value]  
no event manager environment var-name
```

Syntax Description

var-name Name assigned to the EEM environment configuration variable.

var-value (Optional) Series of characters, including embedded spaces, to be placed in the environment variable *var-name*.

Command Default

None

Command Modes

XR Config mode

Command History

Release	Modification
Release 7.0.12	This command was introduced.

Usage Guidelines

Environment variables are available to EEM policies when you set the variables using the **event manager environment** command. They become unavailable when you remove them with the **no** form of this command.

By convention, the names of all the environment variables defined by Cisco begin with an underscore character (_) to set them apart, for example, `_show_cmd`.

Spaces can be used in the *var-value* argument. This command interprets everything after the *var-name* argument until the end of the line in order to be a part of the *var-value* argument.

Use the [event manager environment, on page 3](#) command to display the name and value of all EEM environment variables before and after they have been set using the **event manager environment** command.

Task ID

Task ID	Operations
eem	read, write

Examples

This example shows how to define a set of EEM environment variables:

```
RP/0/RP0/CPU0:router(config)# event manager environment _cron_entry 0-59/2 0-23/1 * * 0-7  
RP/0/RP0/CPU0:router(config)# event manager environment _show_cmd show eem manager policy  
registered  
RP/0/RP0/CPU0:router(config)# event manager environment _email_server alpha@cisco.com  
RP/0/RP0/CPU0:router(config)# event manager environment _email_from beta@cisco.com
```

```
RP/0/RP0/CPU0:router(config)# event manager environment _email_to beta@cisco.com
RP/0/RP0/CPU0:router(config)# event manager environment _email_cc
```

event manager policy

To register an Embedded Event Manager (EEM) policy with the EEM, use the **event manager policy** command in XR Config mode. To unregister an EEM policy from the EEM, use the **no** form of this command.

```
event manager policy policy-name username username [{persist-time [{seconds | infinite}] | type
[system | user]}]
```

```
no event manager policy policy-name [username username]
```

Syntax Description		
	<i>policy-name</i>	Name of the policy file.
	username <i>username</i>	Specifies the username used to run the script. This name can be different from that of the user who is currently logged in, but the registering user must have permissions that are a superset of the username that runs the script. Otherwise, the script is not registered, and the command is rejected. In addition, the username that runs the script must have access privileges to the commands issued by the EEM policy being registered.
	persist-time [<i>seconds</i> infinite]	(Optional) The length of the username authentication validity, in seconds. The default time is 3600 seconds (1 hour). The <i>seconds</i> range is 0 to 4294967294. Enter 0 to stop the username authentication from being cached. Enter the infinite keyword to stop the username from being marked as invalid.
	type [<i>system</i> user]	(Optional) Specifies the type of policy to register. Use the <i>system</i> keyword to register a system policy defined by Cisco and the <i>user</i> keyword to register a user-defined policy.

Command Default The default persist time is 3600 seconds (1 hour).

Command Modes XR Config mode

Command History	Release	Modification
	Release 7.0.12	This command was introduced.

Usage Guidelines The EEM schedules and runs policies on the basis of an event specification that is contained within the policy itself. When the **event manager policy** command is invoked, the EEM examines the policy and registers it to be run when the specified event occurs. An EEM script is available to be scheduled by the EEM until the **no** form of this command is entered.



Note AAA authorization (such as the **aaa authorization** command with the **eventmanager** and **default** keywords) must be configured before the EEM policies can be registered. The **eventmanager** and **default** keywords must be configured for policy registration. See the *Configuring AAA Services* module of *System Security Configuration Guide for Cisco 8000 Series Routers* for more information on AAA authorization configuration.

Username

Enter the username that should execute the script with the **username** *username* keyword and argument. This name can be different from the user who is currently logged in, but the registering user must have permissions that are a superset of the username that runs the script. Otherwise, the script will not be registered, and the command will be rejected. In addition, the username that runs the script must have access privileges to the commands issued by the EEM policy being registered.

Persist-time

When a script is first registered, the configured **username** for the script is authenticated. If authentication fails, or if the AAA server is down, the script registration fails.

After the script is registered, the username is authenticated each time a script is run.

If the AAA server is down, the username authentication can be read from memory. The **persist-time** determines the number of seconds this username authentication is held in memory.

- If the AAA server is down and the **persist-time** has not expired, the username is authenticated from memory, and the script runs.
- If the AAA server is down, and the **persist-time** has expired, user authentication fails, and the script does not run.



Note EEM attempts to contact the AAA server and refresh the username reauthenticate whenever the configured **refresh-time** expires. See the [event manager refresh-time, on page 6](#) command for more information.

These values can be used for the **persist-time**:

- The default **persist-time** is 3600 seconds (1 hour). Enter the **event manager policy** command without the **persist-time** keyword to set the **persist-time** to 1 hour.
- Enter zero to stop the username authentication from being cached. If the AAA server is down, the username is not authenticated and the script does not run.
- Enter **infinite** to stop the username from being marked as invalid. The username authentication held in the cache will not expire. If the AAA server is down, the username is authenticated from the cache.

Type

If you enter the **event manager policy** command without specifying the **type** keyword, the EEM first tries to locate the specified policy file in the system policy directory. If the EEM finds the file in the system policy directory, it registers the policy as a system policy. If the EEM does not find the specified policy file in the system policy directory, it looks in the user policy directory. If the EEM locates the specified file in the user policy directory, it registers the policy file as a user policy. If the EEM finds policy files with the same name in both the system policy directory and the user policy directory, the policy file in the system policy directory takes precedence, and the policy file is registered as a system policy.

Task ID	Task ID	Operations
	eem	read, write

Examples

This example shows how to register a user-defined policy named cron.tcl located in the user policy directory:

```
RP/0/RP0/CPU0:router(config)# event manager policy cron.tcl username joe
```

event manager refresh-time

To define the time between user authentication refreshes in Embedded Event Manager (EEM), use the **event manager refresh-time** command in XR Config mode. To restore the system to its default condition, use the **no** form of this command.

```
event manager refresh-time seconds
no event manager refresh-time seconds
```

Syntax Description

seconds Number of seconds between user authentication refreshes, in seconds. Range is 10 to 4294967295.

Command Default

The default refresh time is 1800 seconds (30 minutes).

Command Modes

XR Config mode

Command History

Release	Modification
Release 7.0.12	This command was introduced.

Usage Guidelines

EEM attempts to contact the AAA server and refresh the username reauthentication whenever the configured **refresh-time** expires.

Task ID	Task ID	Operations
	eem	read, write

Examples

This example shows how to set the refresh time:

```
RP/0/RP0/CPU0:router(config)# event manager refresh-time 1900
```

event manager run

To manually run an Embedded Event Manager (EEM) policy, use the **event manager run** command in XR EXEC mode.

```
event manager run policy [argument [... [argument15]]]
```

Syntax Description	<i>policy</i>	Name of the policy file.
	[<i>argument</i> [...[<i>argument15</i>]]]	Argument that you want to pass to the policy. The maximum number of arguments is 15.
Command Default	No registered EEM policies are run.	
Command Modes	XR EXEC mode	
Command History	Release	Modification
	Release 7.0.12	This command was introduced.

Usage Guidelines

EEM usually schedules and runs policies on the basis of an event specification that is contained within the policy itself. The **event manager run** command allows policies to be run manually.

EEM usually schedules and runs policies on the basis of an event specification that is contained within the policy itself. However the policies of **none** type have to be run manually using **event manager run** command. A **none** type event is a dummy event. An EEM script can register for **none** type event using **event_register_none** tcl command in the script.

You can query the arguments in the policy file by using the **TCL** command *event_reqinfo*, as shown in this example:

```
array set arr_einfo [event_reqinfo] set argc $arr_einfo(argc) set arg1
    $arr_einfo(arg1)
```

Use the [event manager run, on page 7](#) command to register the policy before using the **event manager run** command to run the policy. The policy can be registered with none as the event type.

Task ID	Task ID	Operations
	eem	read

Examples

This example of the **event manager run** command shows how to manually run an EEM policy named policy-manual.tcl:

```
RP/0/RP0/CPU0:router# event manager run policy-manual.tcl parameter1 parameter2 parameter3
```

```
RP/0/RP0/CPU0:Sep 20 10:26:31.169 : user-plocy.tcl[65724]: The reqinfo of arg2 is parameter2.
```

```

RP/0/RP0/CPU0:Sep 20 10:26:31.170 : user-plocy.tcl[65724]: The reqinfo of argc is 3.
RP/0/RP0/CPU0:Sep 20 10:26:31.171 : user-plocy.tcl[65724]: The reqinfo of arg3 is parameter3.

RP/0/RP0/CPU0:Sep 20 10:26:31.172 : user-plocy.tcl[65724]: The reqinfo of event_type_string
is none.
RP/0/RP0/CPU0:Sep 20 10:26:31.172 : user-plocy.tcl[65724]: The reqinfo of event_pub_sec is
1190283990.
RP/0/RP0/CPU0:Sep 20 10:26:31.173 : user-plocy.tcl[65724]: The reqinfo of event_pub_time
is 1190283990.
RP/0/RP0/CPU0:Sep 20 10:26:31.173 : user-plocy.tcl[65724]: The reqinfo of event_id is 3.
RP/0/RP0/CPU0:Sep 20 10:26:31.174 : user-plocy.tcl[65724]: The reqinfo of arg1 is parameter1.

RP/0/RP0/CPU0:Sep 20 10:26:31.175 : user-plocy.tcl[65724]: The reqinfo of event_type is 16.

RP/0/RP0/CPU0:Sep 20 10:26:31.175 : user-plocy.tcl[65724]: The reqinfo of event_pub_msec
is 830

```

event manager scheduler suspend

To suspend the Embedded Event Manager (EEM) policy scheduling execution immediately, use the **event manager scheduler suspend** command in XR Config mode. To restore a system to its default condition, use the **no** form of this command.

event manager scheduler suspend
no event manager scheduler suspend

Syntax Description This command has no keywords or arguments.

Command Default Policy scheduling is active by default.

Command Modes XR Config mode

Command History	Release	Modification
	Release 7.0.12	This command was introduced.

Usage Guidelines Use the **event manager scheduler suspend** command to suspend all the policy scheduling requests, and do not perform scheduling until you enter the **no** form of this command. The **no** form of this command resumes policy scheduling and runs pending policies, if any.

It is recommended that you suspend policy execution immediately instead of unregistering policies one by one, for the following reasons:

- Security—If you suspect that the security of your system has been compromised.
- Performance—If you want to suspend policy execution temporarily to make more CPU cycles available for other functions.

Task ID	Task ID	Operations
	eem	read, write

Examples

This example shows how to disable policy scheduling:

```
RP/0/RP0/CPU0:router(config)# event manager scheduler suspend
```

This example shows how to enable policy scheduling:

```
RP/0/RP0/CPU0:router(config)# no event manager scheduler suspend
```

show event manager directory user

To display the current value of the EEM user library files or user-defined Embedded Event Manager (EEM) policies, use the **show event manager directory user** command in XR EXEC mode.

```
show event manager directory user {library | policy}
```

Syntax Description

library Specifies the user library files.

policy Specifies the user-defined EEM policies.

Command Default

None

Command Modes

XR EXEC mode

Command History**Release**

Release 7.0.12

Modification

This command was introduced.

Usage Guidelines

Use the **show event manager directory user** command to display the current value of the EEM user library or policy directory.

Task ID

Task ID	Operations
eem	read

Examples

This is a sample output of the **show event manager directory user** command:

```
RP/0/RP0/CPU0:router# show event manager directory user library
disk0:/fm_user_lib_dir
```

```
RP/0/RP0/CPU0:router# show event manager directory user policy
disk0:/fm_user_pol_dir
```

show event manager environment

To display the names and values of the Embedded Event Manager (EEM) environment variables, use the **show event manager environment** command in XR EXEC mode.

show event manager environment [{*allenvironment-name*}]

Syntax Description	all (Optional) Specifies all the environment variables.
	<i>environment-name</i> (Optional) Environment variable for which data is displayed.

Command Default All environment variables are displayed.

Command Modes XR EXEC mode

Command History	Release	Modification
	Release 7.0.12	This command was introduced.

Usage Guidelines Use the **show event manager environment** command to display the names and values of the EEM environment variables.

Task ID	Task ID	Operations
	eem	read

Examples This is a sample output of the **show event manager environment** command:

```
RP/0/RP0/CPU0:router# show event manager environment

No.  Name                                     Value
 1   _email_cc                               mosnerd@cisco.com
 2   _email_to                               mosnerd@cisco.com
 3   _show_cmd                               show event manager policy registered
 4   _cron_entry                             0-59/2 0-23/1 * * 0-7
 5   _email_from                             mosnerd@cisco.com
 6   _email_server                           zeta@cisco.com
```

This table describes the significant fields in the display.

Table 1: show event manager environment Field Descriptions

Field	Description
No.	Number of the EEM environment variable.
Name	Name of the EEM environment variable.

Field	Description
Value	Value of the EEM environment variable.

show event manager policy available

To display Embedded Event Manager (EEM) policies that are available to be registered, use the **show event manager policy available** command in XR EXEC mode.

show event manager policy available [{system | user}]

Syntax Description

system (Optional) Displays all the available system policies.

user (Optional) Displays all the available user policies.

Command Default

If this command is invoked with no optional keywords, it displays information for all available system and user policies.

Command Modes

XR EXEC mode

Command History

Release	Modification
Release 7.0.12	This command was introduced.

Usage Guidelines

Use the **show event manager policy available** command to find out what policies are available to be registered just prior to using the **event manager policy** command to register policies.

This command is also useful if you forget the exact name of a policy that is required for the **event manager policy** command.

Task ID

Task ID	Operations
eem	read

Examples

This is a sample output of the **show event manager policy available** command:

```
RP/0/RP0/CPU0:router# show event manager policy available

No.  Type      Time Created                               Name
1    system   Tue Jan 12 09:41:32 2004                 pr_sample_cdp_abort.tcl
2    system   Tue Jan 12 09:41:32 2004                 pr_sample_cdp_revert.tcl
3    system   Tue Jan 12 09:41:32 2004                 sl_sample_intf_down.tcl
4    system   Tue Jan 12 09:41:32 2004                 tm_sample_cli_cmd.tcl
5    system   Tue Jan 12 09:41:32 2004                 tm_sample_crash_hist.tcl
6    system   Tue Jan 12 09:41:32 2004                 wd_sample_proc_mem_used.tcl
7    system   Tue Jan 12 09:41:32 2004                 wd_sample_sys_mem_used.tcl
```

This table describes the significant fields shown in the display.

Table 2: show event manager policy available Field Descriptions

Field	Description
No.	Number of the policy.
Type	Type of policy.
Time Created	Time the policy was created.
Name	Name of the policy.

show event manager policy registered

To display the Embedded Event Manager (EEM) policies that are already registered, use the **show event manager policy registered** command in XR EXEC mode.

```
show event manager policy registered[event-type type] [{system | user}] [{time-ordered | name-ordered}]
```

Syntax Description

event-type *type* (Optional) Displays the registered policies for a specific event type, where the valid *type* options are as follows:

- **application**—Application event type
- **cli**—CLI event type
- **config**—Conf event type
- **counter**—Counter event type
- **hardware**—Hardware event type
- **none**—None event type
- **oir**—Online insertion and removal (OIR) event type
- **process-abort**—Event type for abnormal termination of process
- **process-start**—Process start event type
- **process-term**—Process termination event type
- **process-user-restart**—Process user restart event type
- **process-user-shutdown**—Process user shutdown event type
- **snmp**—SNMP event type
- **snmp-proxy**—SNMP PROXY event type
- **statistics**—Statistics event type
- **syslog**—Syslog event type
- **timer-absolute**—Absolute timer event type
- **timer-countdown**—Countdown timer event type
- **timer-cron**—Clock daemon (cron) timer event type
- **timer-watchdog**—Watchdog timer event type
- **track**—Track event type
- **wdsysmon**—Watchdog system monitor event type

system (Optional) Displays the registered system policies.

user (Optional) Displays the registered user policies.

time-ordered (Optional) Displays the policies according to registration time.

name-ordered (Optional) Displays the policies in alphabetical order according to policy name.

Command Default

If this command is invoked with no optional keywords or arguments, it displays the registered EEM policies for all the event types. The policies are displayed according to the registration time.

Command Modes

XR EXEC mode

Command History

Release	Modification
Release 7.0.12	This command was introduced.

Usage Guidelines

The output of the **show event manager policy registered** command is most beneficial if you are writing and monitoring the EEM policies. The output displays registered policy information in two parts. The first line in each policy description lists the index number assigned to the policy, policy type (system or user), type of event registered, time at which the policy was registered, and name of the policy file. The remaining lines of each policy description display information about the registered event and how the event is to be handled,

show event manager policy registered

and come directly from the Tool Command Language (TCL) command arguments that make up the policy file.

Registered policy information is documented in the Cisco publication *Writing Embedded Event Manager Policies Using Tcl*.

Task ID	Task ID	Operations
	eem	read

Examples

This is a sample output of the **show event manager policy registered** command:

```
RP/0/RP0/CPU0:router# show event manager policy registered

No.      Type      Event Type      Time Registered      Name
1        system   proc abort      Wed Jan 16 23:44:56 2004  test1.tcl
  version 00.00.0000 instance 1 path {cdp}
  priority normal maxrun_sec 20 maxrun_nsec 0
2        system   timer cron      Wed Jan 16 23:44:58 2004  test2.tcl
  name {crontimer1}
  priority normal maxrun_sec 20 maxrun_nsec 0
3        system   proc abort      Wed Jan 16 23:45:02 2004  test3.tcl
  path {cdp}
  priority normal maxrun_sec 20 maxrun_nsec 0
4        system   syslog          Wed Jan 16 23:45:41 2004  test4.tcl
  occurs 1 pattern {test_pattern}
  priority normal maxrun_sec 90 maxrun_nsec 0
5        system   timer cron      Wed Jan 16 23:45:12 2004  test5.tcl
  name {crontimer2}
  priority normal maxrun_sec 30 maxrun_nsec 0
6        system   wdsysmon        Wed Jan 16 23:45:15 2004  test6.tcl
  timewin_sec 120 timewin_nsec 0 sub1 mem_tot_used {node {localhost} op gt
  val 23000}
  priority normal maxrun_sec 40 maxrun_nsec 0
7        system   wdsysmon        Wed Jan 16 23:45:19 2004  test7.tcl
  timewin_sec 120 timewin_nsec 0 sub1 mem_proc {node {localhost} procname
  {wdsysmon} op gt val 80 is_percent FALSE}
  priority normal maxrun_sec 40 maxrun_nsec 0
```

This table describes the significant fields displayed in the example.

Table 3: show event manager policy registered Field Descriptions

Field	Description
No.	Number of the policy.
Type	Type of policy.
Event Type	Type of the EEM event for which the policy is registered.
Time Registered	Time at which the policy was registered.
Name	Name of the policy.

show event manager refresh-time

To display the time between the user authentication refreshes in the Embedded Event Manager (EEM), use the **show event manager refresh-time** command in XR EXEC mode.

```
show event manager refresh-time
```

Syntax Description	This command has no keywords or arguments.	
Command Default	None	
Command Modes	XR EXEC mode	
Command History	Release	Modification
	Release 7.0.12	This command was introduced.
Usage Guidelines	The output of the show event manager refresh-time command is the refresh time, in seconds.	
Task ID	Task ID	Operations
	eem	read

Examples

This is a sample output of the **show event manager refresh-time** command:

```
RP/0/RP0/CPU0:router# show event manager refresh-time
Output:
1800 seconds
```

show event manager statistics-table

To display the currently supported statistic counters maintained by the Statistic Event Detector, use the **show event manager statistics-table** command in XR EXEC mode.

```
show event manager statistics-table {stats-name | all}
```

Syntax Description	<i>stats-name</i> Specific statistics type to be displayed. There are three statistics types: <ul style="list-style-type: none"> • generic (ifstats-generic) • interface table (ifstats-itable) • data rate (ifstats-datarate)
	all Displays the possible values for the <i>stats-name</i> argument. Displays the output for all the statistics types.

show event manager statistics-table

Command Default	None
Command Modes	XR EXEC mode
Usage Guidelines	Use the show event manager statistics-table all command to display the output for all the statistics types.

Task ID	Task ID	Operations
	eem	read

Examples

This is a sample output of the **show event manager statistics-table all** command:

```
RP/0/RP0/CPU0:router# show event manager statistics-table all
```

Name	Type	Description
ifstats-generic	bag	Interface generic stats
ifstats-iftable	bag	Interface iftable stats
ifstats-datarate	bag	Interface datarate stats

This is a sample output providing more detailed information on the ifstats-iftable interface statistics table:

```
RP/0/RP0/CPU0:router# show event manager statistics-table ifstats-iftable
```

Name	Type	Description
PacketsReceived	uint64	Packets rcvd
BytesReceived	uint64	Bytes rcvd
PacketsSent	uint64	Packets sent
BytesSent	uint64	Bytes sent
MulticastPacketsReceived	uint64	Multicast pkts rcvd
BroadcastPacketsReceived	uint64	Broadcast pkts rcvd
MulticastPacketsSent	uint64	Multicast pkts sent
BroadcastPacketsSent	uint64	Broadcast pkts sent
OutputDropsCount	uint32	Total output drops
InputDropsCount	uint32	Total input drops
InputQueueDrops	uint32	Input queue drops
RuntPacketsReceived	uint32	Received runt packets
GiantPacketsReceived	uint32	Received giant packets
ThrottledPacketsReceived	uint32	Received throttled packets
ParityPacketsReceived	uint32	Received parity packets
UnknownProtocolPacketsReceived	uint32	Unknown protocol pkts rcvd
InputErrorsCount	uint32	Total input errors
CRCErrorCount	uint32	Input crc errors
InputOverruns	uint32	Input overruns
FramingErrorsReceived	uint32	Framing-errors rcvd
InputIgnoredPackets	uint32	Input ignored packets
InputAborts	uint32	Input aborts
OutputErrorsCount	uint32	Total output errors
OutputUnderruns	uint32	Output underruns
OutputBufferFailures	uint32	Output buffer failures
OutputBuffersSwappedOut	uint32	Output buffers swapped out
Applique	uint32	Applique
ResetCount	uint32	Number of board resets
CarrierTransitions	uint32	Carrier transitions
AvailabilityFlag	uint32	Availability bit mask
NumberOfSecondsSinceLastClearCounters	uint32	Seconds since last clear counters
LastClearTime	uint32	SysUpTime when counters were last cleared (in seconds)

This table describes the significant fields displayed in the example.

Table 4: show event manager statistics-table Field Descriptions

Field	Description
Name	Name of the statistic. When the all keyword is specified, there are three types of statistics displayed: <ul style="list-style-type: none">• ifstats-generic• ifstats-iftable• ifstats-datarate When a statistics type is specified, the statistics for the statistic type are displayed.
Type	Type of statistic.
Description	Description of the statistic.

show event manager statistics-table