



## **A Commands**

---

This chapter describes the Cisco NX-OS system management commands that begin with the letter A.

***Send document comments to [nexus7k-docfeedback@cisco.com](mailto:nexus7k-docfeedback@cisco.com).***

## abort (Call home)

To delete a Call home Cisco Fabric Services (CFS) configuration session without applying the configuration, use the **abort** command.

**abort**

**Syntax Description** This command has no arguments or keywords.

**Defaults** None

**Command Modes** Call home configuration

**SupportedUserRoles** network-admin  
vdc-admin

Command History	Release	Modification
	4.1(2)	This command was introduced.

**Usage Guidelines** The **abort** command is supported only on the device where the CFS fabric lock is acquired. This command does not require a license.

**Examples** This example shows how to abort a Call home CFS configuration session:

```
switch(config-callhome)# abort
switch(config-callhome)# show callhome session status
Last Action Time Stamp      : Mon Dec 22 17:34:37 2008
Last Action                  : Abort
Last Action Result           : Success
Last Action Failure Reason   : none
```

Related Commands	Command	Description
	<b>show session status</b>	Displays the status of the current CFS configuration session, including the last action and its result.
	<b>callhome</b>	Enters the Call home configuration mode.
	<b>callhome distribute</b>	Enables CFS distribution of the Call home configuration.

*Send document comments to [nexus7k-docfeedback@cisco.com](mailto:nexus7k-docfeedback@cisco.com).*

## abort (Session Manager)

To delete a Session Manager configuration session without applying the configuration, use the **abort** command.

**abort**

**Syntax Description** This command has no arguments or keywords.

**Defaults** None

**Command Modes** Session configuration

**SupportedUserRoles** network-admin  
vdc-admin

Command History	Release	Modification
	4.0(1)	This command was introduced.

**Usage Guidelines** This command does not require a license.

**Examples** This example shows how to abort a Session Manager configuration session and show the aborted session:

```
switch(config-s-acl)# abort
switch# show configuration session ACL_permit_tcp
ERROR: Session not found
switch# show configuration session summary
There are no active configuration sessions
```

Related Commands	Command	Description
	<b>show configuration session</b>	Displays the status of the current CFS configuration session, including the last action and its result.
	<b>show configuration session summary</b>	Displays a summary of the configuration session.

***Send document comments to nexus7k-docfeedback@cisco.com.***

## action cli

To configure a virtual shell (VSH) command string to be executed when an Embedded Event Manager (EEM) applet is triggered, use the **action cli** command. To disable the VSH command string, use the **no** form of this command.

```
action label cli [local] vsh_cmd
```

```
no action label cli
```

Syntax Description	label	Unique identifier that can be any string value. Actions are sorted and run in an ascending alphanumeric sequence using the <i>label</i> as the sort key. If the string contains embedded blanks, enclose it in double quotation marks.
	local	(Optional) Specifies the <b>action</b> is to be executed in the same module on which the event occurs.
	vsh_cmd	VSH command string to be executed when the applet is triggered.

Defaults	None
----------	------

Command Modes	Embedded event manager
---------------	------------------------

SupportedUserRoles	network-admin vdc-admin
--------------------	----------------------------

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines	This command does not require a license.
------------------	--

Examples	This example shows how to configure a VSH command string to be executed when an EEM applet is triggered:
----------	--

```
switch# configure terminal
switch(config)# event manager applet cli-applet
switch(config-applet)# action 1.1 cli callhome send eem subject "port down" body "acme
port is down"
switch(config-applet)#
```

Related Commands	Command	Description
	<b>event manager applet</b>	Registers an applet with the Embedded Event Manager (EEM).

***Send document comments to nexus7k-docfeedback@cisco.com.***

## action counter

To set or modify a named counter when an Embedded Event Manager (EEM) applet is triggered, use the **action counter** command. To restore the default value to the counter, use the **no** form of this command.

**action** *label* **counter name** *name* **value** *value* **op** {**dec** | **inc** | **nop** | **set**}

**no action** *label* **counter name** *name*

Syntax Description		
<b>label</b>	<i>label</i>	Unique identifier that can be any string value. Actions are sorted and run in an ascending alphanumeric sequence using the <i>label</i> as the sort key. If the string contains embedded blanks, enclose it in double quotation marks.
<b>name</b>	<i>name</i>	Specifies the name of the counter. This identifier can be any string value.
<b>value</b>	<i>value</i>	Specifies the value of the counter. This identifier must be an integer value in the range from -2147483648 to 2147483647 inclusive, or a \$-prefixed name (for parameter substitution).
<b>op</b>		Specifies the operation to perform upon the counter.
<b>dec</b>		Decrements the counter by the specified value.
<b>inc</b>		Increments the counter by the specified value.
<b>nop</b>		Does nothing, using this keyword just displays the specified value.
<b>set</b>		Sets the counter to the specified value.

**Defaults** None

**Command Modes** Embedded event manager

**SupportedUserRoles** network-admin  
vdc-admin

Command History	Release	Modification
	4.0(1)	This command was introduced.

**Usage Guidelines** This command does not require a license.

***Send document comments to [nexus7k-docfeedback@cisco.com](mailto:nexus7k-docfeedback@cisco.com).***

---

**Examples**

This example shows how to set the counter *count1* to the value in *\$variable* when the EEM *counter-applet* is triggered:

```
switch# configure terminal
switch(config)# event manager applet counter-applet
switch(config-applet)# action 1.2 counter name count1 value $variable op dec
switch(config-applet)#
```

***Send document comments to [nexus7k-docfeedback@cisco.com](mailto:nexus7k-docfeedback@cisco.com).***

## action event-default

To specify that the default action for the event is to be performed when an Embedded Event Manager (EEM) applet is triggered, use the **action event-default** command. To disable the default action, use the **no** form of this command.

**action** *label* **event-default**

**no action** *label* **event-default**

<b>Syntax Description</b>	<i>label</i>	Unique identifier that can be any string value. Actions are sorted and run in an ascending alphanumeric sequence using the <i>label</i> as the sort key. If the string contains embedded blanks, enclose it in double quotation marks.
---------------------------	--------------	--

<b>Defaults</b>	None
-----------------	------

<b>Command Modes</b>	Embedded event manager
----------------------	------------------------

<b>SupportedUserRoles</b>	network-admin vdc-admin
---------------------------	----------------------------

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.0(1)	This command was introduced.

<b>Usage Guidelines</b>	<p>If you want to allow the triggered event to process any default actions, you must configure the EEM policy to allow the default action. For example, if you match a CLI command in a match statement, you must add the <b>event-default</b> statement to the EEM policy or EEM does not allow the CLI command to execute. You can use the <b>terminal event-manager bypass</b> command to allow all EEM policies with CLI matches to execute the CLI command.</p>
-------------------------	--

This command does not require a license.

<b>Examples</b>	<p>This example shows how to specify that the default action for the event is to be performed when an EEM applet is triggered:</p>
-----------------	--

```
switch# configure terminal
switch(config)# event manager applet default-applet
switch(config-applet)# action 1.15 event-default
switch(config-applet)#
```

[Send document comments to nexus7k-docfeedback@cisco.com.](mailto:nexus7k-docfeedback@cisco.com)

## action exceptionlog

To log an exception if the specific conditions are encountered when an Embedded Event Manager (EEM) applet is triggered, use the **action exceptionlog** command. To remove the exception log, use the **no** form of this command.

**action** *label* **exceptionlog** **module** *module* **syserr** *error* **devid** *id* **errtype** *type* **errcode** *code*  
**phylayer** *layer* **ports** *list* **harderror** *error* [**desc** *string*]

**no** **action** *label* **exceptionlog** **module** *module* **syserr** *error* **devid** *id* **errtype** *type* **errcode** *code*  
**phylayer** *layer* **ports** *list* **harderror** *error* [**desc** *string*]

### Syntax Description

<b>label</b>	Unique identifier that can be any string value. Actions are sorted and run in an ascending alphanumeric sequence using the <i>label</i> as the sort key. If the string contains embedded blanks, enclose it in double quotation marks.
<b>module</b> <i>module</i>	Records an exception for the specified module number.
<b>syserr</b> <i>error</i>	Records an exception for the specified system error.
<b>devid</b> <i>id</i>	Records an exception for the specified device ID.
<b>errtype</b> <i>type</i>	Records an exception for the specified error type.
<b>errcode</b> <i>code</i>	Records an exception for the specified error code.
<b>phylayer</b> <i>layer</i>	Records an exception for the specified physical layer.
<b>ports</b> <i>list</i>	Records an exception for the specified ports.
<b>harderror</b> <i>error</i>	Records an exception for the specified hard error.
<b>desc</b> <i>string</i>	(Optional) Specifies a description of the exception logging condition.

### Defaults

None

### Command Modes

Embedded event manager

### Supported User Roles

network-admin  
vdc-admin

### Command History

Release	Modification
4.0(1)	This command was introduced.

### Usage Guidelines

This command does not require a license.



***Send document comments to [nexus7k-docfeedback@cisco.com](mailto:nexus7k-docfeedback@cisco.com).***

---

**Examples**

This example shows how to log an EEM applet exception:

```
switch# configure terminal
switch(config)# event manager applet exception-applet
switch(config-applet)# action 1.2 exceptionlog module 1 syserr 0x41150010 devid 96 errtype
2 errcode 354 phylayer 0 ports 1-24 harderror false desc "r2d2 general error"
switch(config-applet)#
```

***Send document comments to nexus7k-docfeedback@cisco.com.***

## action forceshut

To configure a forced shutdown of a module, a crossbar ASIC, or the entire switch when an Embedded Event Manager (EEM) applet is triggered, use the **action forceshut** command. To remove the forced shutdown, use the **no** form of this command.

**action** *label forceshut* [{**module** *module* | **xbar** *xbar-number*}] **reset-reason** *string*

**no action** *label forceshut* [{**module** *module* | **xbar** *xbar-number*}] **reset-reason** *string*

Syntax Description		
<i>label</i>		Unique identifier that can be any string value. Actions are sorted and run in an ascending alphanumeric sequence using the <i>label</i> as the sort key. If the string contains embedded blanks, enclose it in double quotation marks.
<b>module</b> <i>module</i>		(Optional) Forces a shutdown of the specified module. The module range is from 1 to 10.
<b>xbar</b> <i>xbar-number</i>		(Optional) Forces a shutdown of the specified crossbar ASIC. The ASIC range is from 1 to 5.
<b>reset-reason</b> <i>string</i>		Provides a string that is enclosed in double quotation marks to explain the reason for a forced shutdown.

**Defaults** None

**Command Modes** Embedded event manager

**SupportedUserRoles** network-admin  
vdc-admin

Command History	Release	Modification
	4.0(1)	This command was introduced.

**Usage Guidelines** This command does not require a license.

**Examples** This example shows how to configure a forced shutdown of module 4 when an EEM applet is triggered:

```
switch# configure terminal
switch(config)# event manager applet forceshut-applet
switch(config-applet)# action 1.3 forceshut module 4 reset-reason "module 4 failed"
switch(config-applet)#
```

***Send document comments to [nexus7k-docfeedback@cisco.com](mailto:nexus7k-docfeedback@cisco.com).***

## action overbudgetshut

To configure the shutdown of a module or the entire switch due to an overbudget power condition when an Embedded Event Manager (EEM) applet is triggered, use the **action overbudgetshut** command. To remove the shutdown configuration, use the **no** form of this command.

**action** *label* **overbudgetshut** [**module** *module*]

**no action** *label* **overbudgetshut** [**module** *module*]

Syntax Description		
<i>label</i>	Unique identifier that can be any string value. Actions are sorted and run in an ascending alphanumeric sequence using the <i>label</i> as the sort key. If the string contains embedded blanks, enclose it in double quotation marks.	
<b>module</b> <i>module</i>	(Optional) Forces a shutdown of the specified module. The module range is from 1 to 10.	

**Defaults** None

**Command Modes** Embedded event manager

**SupportedUserRoles** network-admin  
vdc-admin

Command History	Release	Modification
	4.0(1)	This command was introduced.

**Usage Guidelines** This command does not require a license.

**Examples** This example shows how to configure a power overbudget shutdown of module 4 when an EEM applet is triggered:

```
switch# configure terminal
switch(config)# event manager applet overbudget-applet
switch(config-applet)# action 1.4 overbudgetshut module 4
switch(config-applet)#
```

***Send document comments to [nexus7k-docfeedback@cisco.com](mailto:nexus7k-docfeedback@cisco.com).***

## action policy-default

To enable the default action(s) of the policy being overridden, use the **action policy-default** command. To remove the default action, use the **no** form of this command.

**action** *label* **policy-default**

**no** **action** *label* **policy-default**

<b>Syntax Description</b>	<i>label</i>	Unique identifier that can be any string value. Actions are sorted and run in an ascending alphanumeric sequence using the <i>label</i> as the sort key. If the string contains embedded blanks, enclose it in double quotation marks.
<b>Defaults</b>	None	
<b>Command Modes</b>	Embedded event manager	
<b>SupportedUserRoles</b>	network-admin vdc-admin	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.0(1)	This command was introduced.
<b>Usage Guidelines</b>	This command does not require a license.	
<b>Examples</b>	This example shows how to enable the default action of a policy being overridden when an EEM applet is triggered:	
	<pre>switch# <b>configure terminal</b> switch(config)# <b>event manager applet default-applet</b> switch(config-applet)# <b>action 1.65 policy-default</b> switch(config-applet)#</pre>	

***Send document comments to [nexus7k-docfeedback@cisco.com](mailto:nexus7k-docfeedback@cisco.com).***

## action reload

To specify the action of reloading the switch software when an Embedded Event Manager (EEM) applet is triggered, use the **action reload** command. To remove the action of reloading the switch software, use the **no** form of this command.

**action** *label* **reload**

**no action** *label* **reload**

<b>Syntax Description</b>	<i>label</i>	Unique identifier that can be any string value. Actions are sorted and run in an ascending alphanumeric sequence using the <i>label</i> as the sort key. If the string contains embedded blanks, enclose it in double quotation marks.
---------------------------	--------------	--

<b>Defaults</b>	None
-----------------	------

<b>Command Modes</b>	Embedded event manager
----------------------	------------------------

<b>SupportedUserRoles</b>	network-admin vdc-admin
---------------------------	----------------------------

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.0(1)	This command was introduced.

<b>Usage Guidelines</b>	This command does not require a license.
-------------------------	--

**Examples** This example shows how to specify the action of reloading the switch software when an EEM applet is triggered:

```
switch# configure terminal
switch(config)# event manager applet reload-applet
switch(config-applet)# action 1.5 reload
switch(config-applet)#
```

**Send document comments to [nexus7k-docfeedback@cisco.com](mailto:nexus7k-docfeedback@cisco.com).**

## action snmp-trap

To specify the generation of a Simple Network Management Protocol (SNMP) trap when an Embedded Event Manager (EEM) applet is triggered, use the **action snmp-trap** command. To disable the SNMP trap, use the **no** form of this command.

**action label snmp-trap** [*intdata1 integer*] [*intdata2 integer*] [*strdata string*]

**no action label snmp-trap** [*intdata1 integer*] [*intdata2 integer*] [*strdata string*]

Syntax Description		
<i>label</i>	Unique identifier that can be any string value. Actions are sorted and run in an ascending alphanumeric sequence using the <i>label</i> as the sort key. If the string contains embedded blanks, enclose it in double quotation marks.	
<b>intdata1</b> <i>integer</i>	(Optional) Specifies an integer to be sent in the SNMP trap message to the SNMP agent.	
<b>intdata2</b> <i>integer</i>	(Optional) Specifies a second integer to be sent in the SNMP trap message to the SNMP agent.	
<b>strdata</b> <i>string</i>	(Optional) Specifies a string to be sent in the SNMP trap message to the SNMP agent. If the string contains embedded blanks, enclose it in double quotation marks.	

**Defaults** None

**Command Modes** Embedded event manager

**SupportedUserRoles** network-admin  
vdc-admin

Command History	Release	Modification
	4.0(1)	This command was introduced.

**Usage Guidelines** This command does not require a license.

**Examples** This example shows how to specify an SNMP trap to generate when an EEM applet is triggered:

```
switch# configure terminal
switch(config)# event manager applet snmp-applet
switch(config-applet)# action 1.7 snmp-trap strdata "EEM detected server failure"
switch(config-applet)#
```

***Send document comments to [nexus7k-docfeedback@cisisco.com](mailto:nexus7k-docfeedback@cisisco.com).***

## action syslog

To configure a syslog message to generate when an Embedded Event Manager (EEM) applet is triggered, use the **action syslog** command. To disable the syslog message, use the **no** form of this command.

```
action label syslog [priority {prio | prio-str}] msg msg-text
```

```
no action label syslog [priority {prio | prio-str}] msg msg-text
```

Syntax Description		
<i>label</i>		Unique identifier that can be any string value. Actions are sorted and run in an ascending alphanumeric sequence using the <i>label</i> as the sort key. If the string contains embedded blanks, enclose it in double quotation marks.
<b>priority</b>		(Optional) Specifies the priority level of the syslog messages. If this keyword is not selected, all syslog messages are set at the informational priority level. If this keyword is selected, the priority level argument must be defined.
<i>prio</i>		Priority level: <ul style="list-style-type: none"> <li>• <b>emergencies</b>—Specifies the system is unusable.</li> <li>• <b>alerts</b>—Specifies immediate action is needed.</li> <li>• <b>critical</b>—Specifies critical conditions.</li> <li>• <b>errors</b>—Specifies error conditions.</li> <li>• <b>warnings</b>— Specifies warning conditions.</li> <li>• <b>notifications</b>—Specifies normal but significant conditions.</li> <li>• <b>informational</b>—Specifies informational messages. This is the default.</li> <li>• <b>debugging</b>—Specifies debugging messages.</li> </ul>
<i>prio-str</i>		A \$-prefixed parameter that you previously set to a priority level.
<b>msg</b> <i>msg-text</i>		Specifies the message to be logged. The <i>msg-text</i> can contain character text, an environment variable, or a combination of the two. If the string contains embedded blanks, enclose it in double quotation marks.

<b>Defaults</b>	None
-----------------	------

<b>Command Modes</b>	Embedded event manager
----------------------	------------------------

<b>SupportedUserRoles</b>	network-admin vdc-admin
---------------------------	----------------------------

Command History	Release	Modification
	4.0(1)	This command was introduced.

## ***Send document comments to nexus7k-docfeedback@cisco.com.***

---

### **Usage Guidelines**

Messages written to syslog from an EEM applet are not screened for EEM syslog events, which may lead to recursive EEM syslog events. Messages that are sent from an EEM applet include the applet name for identification.

This command does not require a license.

---

### **Examples**

This example shows how to configure a syslog message to save when an EEM applet is triggered:

```
switch# configure terminal
switch(config)# event manager applet syslog-applet
switch(config-applet)# action 1.7 syslog priority critical msg "Syslog condition: $log"
switch(config-applet)#
```



***Send document comments to [nexus7k-docfeedback@cisco.com](mailto:nexus7k-docfeedback@cisco.com).***

## alert-group

To configure a Call home CLI command for an alert group, use the **alert-group** command. To remove the command from the alert group, use the **no** form of this command.

```
alert-group { All | Configuration | Diagnostic | EEM | Environmental | Inventory | License |
Linecard-Hardware | Supervisor-Hardware | Syslog-group-port | System | Test }
user-def-cmd cli_command
```

```
no alert-group { All | Configuration | Diagnostic | Environmental | Inventory | License |
Linecard-Hardware | Supervisor-Hardware | Syslog-group-port | System | Test }
user-def-cmd cli_command
```

Syntax Description		
<b>All</b>	Specifies all alert groups—configuration, diagnostic, EEM, environmental, inventory, license, linecard-hardware, supervisor-hardware, syslog-group-port, system, and test.	
<b>Configuration</b>	Specifies events related to configurations.	
<b>Diagnostic</b>	Specifies events related to diagnostics.	
<b>EEM</b>	Specifies events related to EEM.	
<b>Environmental</b>	Specifies events related to power,fan,temperature related events.	
<b>Inventory</b>	Specifies events related to the inventory status.	
<b>License</b>	Specifies events related to license.	
<b>Linecard-Hardware</b>	Specifies events related to line card hardware.	
<b>Supervisor-Hardware</b>	Specifies events related to the supervisor module.	
<b>Syslog-group-port</b>	Specifies events related to syslog messages filed by port manager.	
<b>System</b>	Specifies events related to software.	
<b>Test</b>	Specifies events related to tests.	
<b>user-def-cmd</b>	Configures a valid CLI command for the alert group.	<i>cli_command</i>

**Defaults** None

**Command Modes** Call home configuration

**SupportedUserRoles** network-admin  
vdc-admin

***Send document comments to [nexus7k-docfeedback@cisco.com](mailto:nexus7k-docfeedback@cisco.com).***

Command History	Release	Modification
	4.0(1)	This command was introduced.

**Usage Guidelines** This command does not require a license.

**Examples** This example shows how to add the **show ip routing** command to the configuration alert group:

```
switch# config t
switch(config)# callhome
switch(config-callhome)# alert-group Configuration user-def-cmd "show ip routing"
```

Related Commands	Command	Description
	<b>callhome</b>	Enters the Call home configuration mode.
	<b>callhome distribute</b>	Enables CFS distribution of the Call home configuration.
	<b>show callhome destination-profile</b> <i>name</i>	Displays one or more Call home destination profiles.