

E Commands

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egress-sa

To configure the Security Association (SA) to the egress hardware, use the **engress-sa** command. To delete the SA from the egress hardware, use the no form of the command.

engress-sa spi-number no engress-sa spi-number

Syntax Description	<i>spi-number</i> The range is from 256 to 4294967295.			
Command Default	None.			
Command Modes	Configuration s	Configuration submode.		
Command History	Release	Modification]	
	NX-OS 4.2(1)	This command was introduced.		
Usage Guidelines	None.			
Examples	The following example shows how to configure the SA to the egress hardware			
	<pre>switch# config terminal Enter configuration commands, one per line. End with CNTL/Z. switch(config)# interface fc 2/1 - 3 switch(config-if)# fcsp esp manual switch(config-if-esp)# egress-sa 258 switch(config-if-esp)#</pre>			
Related Commands	Command	Description		

show fcsp interface Displays FC-SP-related information for a specific interface.

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email-contact

To configure an e-mail contact with the Call Home function, use the **email-addr** command in Call Home configuration submode. To disable this feature, use the **no** form of the command.

email-addr email-address no email-addr email-address

Syntax Description	email-ad	dress	Configures an e-mail address. Uses a standard e-mail address that does not have any text size restrictions.				
Command Default	None.	None.					
Command Modes	Call Hom	ne con	figuration submode.				
Command History	Release	Modi	fication				
	1.0(2)	This	command was introduced.				
Usage Guidelines	None.						
Examples	The following example shows how to configure e-mail contact in the Call Home configuration:						
	<pre>switch# config terminal Enter configuration commands, one per line. End with CNTL/Z. switch(config)# callhome switch(config-callhome)# email-contact username@company.com</pre>						
Related Commands	Comman	d	Description				
	callhom	e	Configures the Call Home function.				
	callhom	e test	Sends a dummy test message to the configured destination(s).				
	show callhom	e	Displays configured Call Home information.				

empty

To remove all steps of the user-configured algorithm, use the **empty** command in configuration mode.

	empty				
Syntax Description	This command has no arguments or keywords.				
Command Default	None.				
Command Modes	Configura	ation Secu	re Erase algorithm sub	mode	
Command History	Release	Modificat	tion		
	6.2(1)	This com	mand was deprecated.		
	3.3(1a)	This com	mand was introduced.		
Usage Guidelines	None.				
Examples	The following example shows how to remove all steps of the user-configured algorithm:				
	<pre>switch# config terminal Enter configuration commands, one per line. End with CNTL/Z. switch(config)# secure-erase module 2 algorithm 0 switch (config-se-algo)# empty</pre>				
Related Commands	Command Description				
	add-step	dynamic	Adds a dynamic patte	rn step to a specific algorithm.	
	add-step	o static	Adds static pattern ste	ep to a specific algorithm.	1

enable

To turn on the privileged commands, use the **enable** command. To disable this feature, use the **disable** command.

enable privilege-level

Syntax Description	privilege-level	Specifies privilege level. Default	value is 15.		
Command Default	Enabled.	Enabled.			
Command Modes	EXEC mode.	EXEC mode.			
Command History	Release	Modification			
	NX-OS 5.0(1a)	This command was introduced.			
Usage Guidelines	None.				
Examples	The following example shows how to turn on the privileged comman switch# enable 15 switch#				

Related Commands	Command	Description
	enable secret	Displays the secret for privilege escalation.

enable (Call Home configuration submode)

To enable the Call Home function, use the **enable** command in Call Home configuration submode. To disable this feature, use the **disable** command.

enable

Syntax Description	This command has no arguments or keywords.			
Command Default	None.	None.		
Command Modes	Call Home configuration submode.			
Command History	Release Modification			
	1.0(2)	This command was introduced.		
Usage Guidelines	To disabl	e the Call Home function, use the	e disable command:	

Examples The following example shows how to enable the Call Home function.

```
switch# config terminal
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# callhome
switch(config-callhome)# enable
```

Related Commands	Command	Description
	callhome	Configures the Call Home function.
callhome te		Sends a dummy test message to the configured destination(s).
	show callhome	Displays configured Call Home information.

enable user-server-group

To enable or disable group validation, use the **enable user-server-group** command. To disable this feature, use the **no** form of the command.

enable user-server-group no enable user-server-group

Syntax Description	This comma	This command has no arguments or keywords.			
Command Default	None.	None.			
Command Modes	Configuratio	on submode.			
Command History	Release	Release Modification			
	NX-OS 5.0	This comman	d was introduced.		
Usage Guidelines	None.				
Examples					
	The following example shows how to enable group validation: switch(config-ldap)# enable user-server-group switch(config-ldap)#				
Related Commands	Command		Description		

show ldap-server groups | Displays the configured LDAP server groups.

enable secret

To create secret for privilege escalation, use the **enable secret** command. To disable this feature, use the no form of the command.

enable secret {0 | 5} password [priv-lvl privilege-level]
no enable secret {0 | 5} password [priv-lvl privilege-level]

Syntax Description	0 Specifies that the secret that follows should be in clear text.			
-,				
	5	Specifies that the secret that follows should be encrypted.		
	password	Specifies that the secret for user privilege escalation.		
	priv-lvl	(Optional) Specifies the privilege level to which the secret belongs.		
	privilege-level	(Optional) Specifies the privilege level. Default value is 15.		
Command Default	Enabled.			
Command Modes	Global Configuration mode.			
Command History	Release	Modification		
	NX-OS 5.0(1a)	This command was introduced.		
Usage Guidelines	None.			
Examples	The following example shows how to specify the secret that follows should be in clear text:			
	<pre>switch(config)# enable secret 0 admin priv-lvl 4 switch(config)#</pre>			
	The following example shows how to specify the secret that follows should be encrypted:			

switch(config)# enable secret 5 admin priv-lvl 4
switch(config)#

enable cert-DN-match

To enable or disable cert DN matching, use the **enable cert-DN-match** command. To disable this feature, use the **no** form of the command.

enable cert-DN-match no enable cert-DN-match

Syntax Description	This command has no	arguments o	r keywords.
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Command Default None.

Command Modes Configuration submode.

Command History	Release	Modification
	NX-OS 5.0(1a)	This command was introduced.

Usage Guidelines If Cert-DN match is configured, user will be allowed to login only if the user profile lists the subject-DN of the user certificate as authorized for logging in.

Examples

```
The following example shows how to enable cert DN match:
switch(config-ldap)# enable cert-dn-match
switch(config-ldap)#
```

Related Commands	Command	Description
	show ldap-server groups	Displays the configured LDAP server groups.

encryption

To change the ESP encryption type, use the **encryption** command. To revert to the default, use the **no** form of the command.

encryption aes

Syntax Description	aes	aes-128: Sets	the ESP encrytion type to a ke	y size of 128 bits.
	aes-256 : Sets the ESP encrytion type to a k			y size of 256 bits.
	MDS 9700	with Supervisor-1: AES with	128 hit key	
Command Default		-	-	
		with Supervisor-4: AES with 2	-	
	16 Gbps an	d 32 Gbps only capable fabric	switches: AES with 128 bit ke	у.
	64 Gbps ca	pable fabric switches: AES wit	h 256 bit key.	
Command Modes	Configurati	on mode		
Command History	Release N	Iodification		
	9.4(3) T	his command was introduced.		
Usage Guidelines	If you change the encryption type from 256 bits to 128 bits or vice-versa, the key is reset to 0. You must re-enter the key value after the encryption type is updated.			
	If the ESP encryption type is set as 256 bits and the key size is smaller than 256 bits, the key is padded with leading zeros to 256 bits.			
	If you need to downgrade from a release that supports 256 bit key size to one that does not, either explicitly set the encryption to aes-128 or remove the Security Association (SA) configuration from the interface.			
Examples	The followi 128 bit key		figure the encryption type as for	or SA 1234 as AES with a
	<pre>switch# configure terminal switch(config)# fcsp esp sa 1234 switch(config-sa)# encryption aes-128</pre>			
Related Commands	Command	Description		
	fcsp esp saConfigure the parameters for the Security Association (SA).			

end

To exit any of the configuration modes and return to EXEC mode, use the **end** command in configuration mode.

	end			
Syntax Description	This command has no arguments or keywords.			
Command Default	None.			
Command Modes	- Configura	ation mode.		
Command History	Release	Modification		
	4.1(1b)	Modified the command output.		
	1.0(2)	This command was introduced.		
Usage Guidelines	You can a	lso press Ctrl-Z to exit config	uration mode.	
Examples	The following example shows how to exit from configure mode:			
	switch(c switch#	onfig-port-monitor)# end		
Related Commands	Comman	Description		
	exit	Exits configuration mode, or a	any of the configuration modes.	

enrollment terminal

To enable manual cut-and-paste certificate enrollment through the switch console, use the **enrollment terminal** command in trust point configuration submode. To revert to the default certificate enrollment process, use the **no** form of the command.

enrollment terminal no enrollment terminal

Syntax Description This command has no arguments or keywords.

Command Default The default enrollment method is manual cut-and-paste, which is the only enrollment method that the MDS switch currently supports.

Command Modes

Trust point configuration submode.

Command History	Release	Modification
	3.0(1)	This command was introduced.

Usage Guidelines None.

Examples

The following example shows how to configure trust point enrollment through the switch console:

switch# config terminal
switch(config)# crypto ca trustpoint admin-ca
switch(config-trustpoint)# enrollment terminal

The following example shows how to discard a trust point enrollment through the switch console:

switch(config)# crypto ca trustpoint admin-ca
switch(config-trustpoint)# no enrollment terminal

Related Commands	Command	Description
	crypto ca authenticate	Authenticates the certificate of the certificate authority.

errdisable detect cause link-down

To error-disable and bring down a port on a link failure, use the **errdisable detect cause link-down** command in the interface configuration submode. To disable this feature, use the **no** form of the command.

errdisable detect cause link-down num-times *count* duration *sec* no errdisable detect cause link-down num-times *count* duration *sec*

Syntax Description	num-times	Specifies the flap number.				
	count	Specifies the count. The range is from 1 to 1023.				
	duration	Specifies the time in seconds.				
		The range is from 45 to 2000000. The duration must be equal to or greater than num-times multiplied by 45. For example, to configure a port to move to the error disabled state when five bit-errors were detected, the duration must be set to 225 or more seconds.				
Command Default	None.					
Command Modes	Interface Con	nfiguration submode.				
Command History	Release	Modification				
	NX-OS 4.1(3) This command was introduced.				
Usage Guidelines	The port guard feature is used in environments where the system and application does not adapt quickly and efficiently to a port going down and back up or to a port rapidly cycling up and down which can happen in some failure modes. For example, if the port is going up and down once a second, and the system takes five seconds to stabilize after the port goes down, this situation might cause a more severe failure in the fabric.					
	The port guard feature gives the SAN administrator the ability to prevent this issue from occurring in environments that are vulnerable to these problems. The port can be configured to stay down after the first failure, or after a specified number of failures in a specified time period. This allows the SAN administration to intervene and control the recovery and avoiding any problems caused by the cycling.					
Examples	The followin	ng example shows how to configure the port as down when the link flaps once:				
	Switch# configure terminal Switch (config)# interface fc1/1 Switch (config-if)# errdisable detect cause link-down					
	The following example shows how to configure the port as down when the link flaps 5 times in 225 seconds:					
	Switch (cor	nfigure terminal nfig)# interface fc1/1 nfig-if)# errdisable detect cause link-down num-times 5 duration 225				

The following example shows how to remove the port guard feature on the interface:

```
Switch# config t
Switch (config)# interface fc1/1
Switch (config-if)# no errdisable detect cause link-down
switch(config)#
```

Related Commands

Command	Description
show interface	Displays the interface status information.
show running-config interface	Displays the running configuration on the interface.
show interface status err-disabled	Displays the Ethernet interface error status information.

errdisable detect cause bit-errors

To enable error-disable detection on bit errors, use the **errdisable detect cause bit-errors** command in the interface configuration submode. To disable this feature, use the **no** form of the command.

errdisable detect cause bit-errors num-times *count* duration *seconds* no errdisable detect cause bit-errors num-times *count* duration *seconds*

Syntax Description	num-times Specifies the number of flaps.					
	count S	Specifies the count. The	e range is from 1 to 1023.			
	duration S	Specifies the time in seconds.				
	<i>seconds</i> The range is from 45 to 2000000. The duration must be equal to or greater than num-times multiplied by 45. For example, to configure a port to move to the error disabled state when five bit-errors were detected, the duration must be set to 225 or more seconds.					
Command Default	None.					
Command Modes	Interface Con	figuration submode.				
Command History	Release	Modification				
	NX-OS 4.2(1) This command was	introduced.			
Usage Guidelines	efficiently to some failure r seconds to sta The port guar environments failure, or afte	The port guard feature is used in environments where the system and application does not adapt quickly and efficiently to a port going down and backup or to a port rapidly cycling up and down which can happen in some failure modes. For example, if the port is going up and down once a second, and the system takes five seconds to stabilize after the port goes down, this situation might cause a more severe failure in the fabric. The port guard feature gives the SAN administrator the ability to prevent this issue from occurring in environments that are vulnerable to these problems. The port can be configured to stay down after the first failure, or after a specified number of failures in a specified time period. This allows the SAN administration				
Examples	The following switch# con switch(conf	to intervene and control the recovery and avoiding any problems caused by the cycling. The following example shows how to enable error-disable detection on bit errors: switch# configure terminal switch(config)# interface fc1/1 switch(config-if)# errdisable detect cause bit-errors num-times 5 duration 225				
Related Commands	Command					
	show interfa	nce	Displays the interface status information.			
	show running-config interface Displays the running configuration on the interface.					
	show interfa	show interface status err-disabled Displays the Ethernet interface error status information.				
			·			

errdisable detect cause credit-loss

To enable error-disable detection on a credit loss, use the **errdisable detect cause credit-loss** command in the interface configuration submode. To disable this feature, use the **no** form of the command.

errdisable detect cause credit-loss num-times *count* duration *sec* no errdisable detect cause credit-loss num-times *count* duration *sec*

Syntax Description	num-times	Specifies the flap numb	er.			
	count	Specifies the count. The	e range is from 1 to 1023.			
	duration	Specifies the time in seconds.				
	1	The range is from 45 to 2000000. The duration must be equal to or greater than num-times multiplied by 45. For example, to configure a port to move to the error disabled state when five bit-errors were detected, the duration must be set to 225 or more seconds.				
Command Default	None.					
Command Modes	Interface Cor	figuration submode.				
Command History	Release	Modification				
	NX-OS 4.2(1) This command was	introduced.			
Usage Guidelines	The port guard feature is used in the environments where the system and application does not adapt quickly and efficiently to a port going down and back up or to a port rapidly cycling up and down which can happen in some failure modes. For example, if the port is going up and down once a second, and the system takes five seconds to stabilize after the port goes down, this situation might cause a more severe failure in the fabric. The port guard feature gives the SAN administrator the ability to prevent this issue from occurring in environments that are vulnerable to these problems. The port can be configured to stay down after the first failure, or after a specified number of failures in a specified time period. This allows the SAN administration to intervene and control the recovery and avoiding any problems caused by the cycling.					
Examples	The followin	The following example shows how to enable error-disable detection on a credit loss:				
	Switch# configure terminal Switch (config)# interface fc1/1 Switch (config-if)# errdisable detect cause credit-loss num-times 5 duration 225 Switch (config-if)#					
Related Commands	Command		Description			
	show interfa	ace	Displays the interface status information.			
	show runnin	w running-config interface Displays the running configuration on the interface.				

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Command	Description
show interface status err-disabled	Displays the Ethernet interface error status information.

errdisable detect cause link-reset

To enable error-disable detection on a link reset, use the **errdisable detect cause link-reset** command in the interface configuration submode. To disable this feature, use the **no** form of the command.

errdisable detect cause link-reset num-times *count* duration *sec* no errdisable detect cause link-reset num-times *count* duration *sec*

Syntax Description	num-times	Specifies the flap numb	er.			
	count	Specifies the count. The	range is from 1 to 1023.			
	duration	uration Specifies the time in seconds.				
	sec	sec The range is from 1 to 2000000.				
Command Default	None.					
Command Modes	- Interface Co	nfiguration submode.				
Command History	Release	Modification				
	NX-OS 4.2(1) This command was	ntroduced.			
Usage Guidelines	efficiently to some failure	The port guard feature is used in environments where the system and application does not adapt quickly and efficiently to a port going down and back up or to a port rapidly cycling up and down which can happen in some failure modes. For example, if the port is going up and down once a second, and the system takes five seconds to stabilize after the port goes down, this situation might cause a more severe failure in the fabric.				
	The port guard feature gives the SAN administrator the ability to prevent this issue from occurring in environments that are vulnerable to these problems. The port can be configured to stay down after the first failure, or after a specified number of failures in a specified time period. This allows the SAN administration to intervene and control the recovery and avoiding any problems caused by the cycling.					
Examples	The followin	g example shows how t	o enable error-disable det	ection on a link reset:		
	Switch# configure terminal Switch (config)# interface fc1/1 Switch (config-if)# errdisable detect cause link-reset num-times 5 duration 30 Switch (config-if)#					
Related Commands	Command		Description			
	show interf	ace	Displays the interface st	atus information.		
	show runni	ng-config interface	Displays the running con	nfiguration on the interface.		
	show interfa	ace status err-disabled	Displays the Ethernet in	terface error status information.		
	-					

errdisable detect cause signal-loss

To enable error-disable detection on a signal loss, use the **errdiable detect cause signal-loss** command in the interface configuration submode. To disable this feature, use the **no** form of the command.

errdisable detect cause signal-loss num-times *count* duration *sec* no errdisable detect cause signal-loss num-times *count* duration *sec*

Syntax Description	num-times	Specifies the flap numb	er.	
	countSpecifies the count. The range is from 1 to 1023.durationSpecifies the time in seconds.			
	sec	The range is from 1 to 2	2000000.	
Command Default	None.			
Command Modes	- Interface Cor	nfiguration submode.		
Command History	Release	Modification		
	NX-OS 4.2(1) This command was	introduced.	
Usage Guidelines	The port guard feature is used in the environments where the system and application does not adapt quid and efficiently to a port going down and back up or to a port rapidly cycling up and down which can hap in some failure modes. For example, if the port is going up and down once a second, and the system tak five seconds to stabilize after the port goes down, this situation might cause a more severe failure in the fa			
	The port guard feature gives the SAN administrator the ability to prevent this issue from occurring in environments that are vulnerable to these problems. The port can be configured to stay down after the first failure, or after a specified number of failures in a specified time period. This allows the SAN administration to intervene and control the recovery and avoiding any problems caused by the cycling.			
Examples	The followin	g example shows how t	o enable error-disable on a signal loss:	
Switch# configure terminal Switch (config)# interface fcl/1 Switch (config-if)# errdisable detect cause signal-loss num-times 5 duration 30 Switch (config-if)#				
Related Commands	Command		Description	
	show interf	ace	Displays the interface status information.	
	show runni	ng-config interface	Displays the running configuration on the interface.	
	show interfa	ace status err-disabled	Displays the Ethernet interface error status information.	

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errdisable detect cause sync-loss

To enable error-disable detection on a sync loss, use the errdisable detect cause sync-loss command in the interface configuration submode. To disable this feature, use the no form of the command.

errdisable detect cause sync-loss num-times count duration sec no errdisable detect cause sync-loss num-times count duration sec

Syntax Description	num-times	Specifies the flap numb	er.		
	count	Specifies the count. The	e range is from 1 to 1023.		
	duration Specifies the time in seconds.				
	sec	The range is from 1 to 2	2000000.		
Command Default	None.				
Command Modes	Interface Co	onfiguration submode.			
Command History	Release	Modification			
	NX-OS 4.2	(1) This command was	introduced.		
Usage Guidelines	efficiently to a port going down and back up or to a port rapidly cycling up and down which can happe some failure modes. For example, if the port is going up and down once a second, and the system takes seconds to stabilize after the port goes down, this situation might cause a more severe failure in the fab The port guard feature gives the SAN administrator the ability to prevent this issue from occurring in				
	environments that are vulnerable to these problems. The port can be configured to stay down after the first failure, or after a specified number of failures in a specified time period. This allows the SAN administration to intervene and control the recovery and avoiding any problems caused by the cycling.				
Examples	The followi	ng example shows how t	o enable error-disable detection on a synchronized loss:		
	Switch (co	-	/1 detect cause sync-loss num-times 5 duration 30		
Related Commands	Command		Description		
	show inter	face	Displays the interface status information.		
	show runn	ing-config interface	Displays the running configuration on the interface.		
	ah orr inton	face status err-disabled	Displays the Ethernet interface error status information.		

errdisable detect cause trustsec-violation

To enable error-disable detection on a trustsec violation, use the **errdisable detect cause trustsec-violation** command in the interface configuration submode. To disable this feature, use the **no** form of the command.

errdisable detect cause trustsec-violation num-times *count* duration *sec* no errdisable detect cause trustsec-violation num-times *count* duration *sec*

Syntax Description	num-times	Specifies the flap numb	per.			
	count	Specifies the count. The	e range is from 1 to 1023.			
	duration	Specifies the time in se	conds.			
	sec	The range is from 1 to 2	2000000.			
Command Default	None.					
Command Modes	- Interface Con	nfiguration submode.				
Command History	Release	Modification				
	NX-OS 4.2(1) This command was	introduced.			
Usage Guidelines	The port guard feature is used in environments where the system and application does not adapt quickly and efficiently to a port going down and back up or to a port rapidly cycling up and down which can happen in some failure modes. For example, if the port is going up and down once a second, and the system takes five seconds to stabilize after the port goes down, this situation might cause a more severe failure in the fabric. The port guard feature gives the SAN administrator the ability to prevent this issue from occurring in environments that are vulnerable to these problems. The port can be configured to stay down after the first failure, or after a specified number of failures in a specified time period. This allows the SAN administration to intervene and control the recovery and avoiding any problems caused by the cycling.					
Examples	The following example shows how to enable error-disable detection on a trustsec violation:					
	switch#(cor switch#(cor	-	detect cause trustsec-violation num-times 1 duration 1			
Related Commands	Command		Description			
	show interf	ace	Displays the interface status information.			
	show runni	ng-config interface	Displays the running configuration on the interface.			

Displays the Ethernet interface error status information.

show interface status err-disabled

event cli

To configure a CLI command as an EEM applet trigger, use the **event cli** command. To delete the applet trigger, use the **no** form of the command.

event cli [tag tagname] match expression [count countnum [time seconds]] no event cli [tag tagname] match expression [count countnum [time seconds]]

Syntax Description	tag tagname		(Optional) Configures an event tag identifier.	
			<i>tagname</i> specifies a handle for combining multiple events and this handle can be any string value of 1 to 29 characters.	
	match expression count countnum time seconds		 Specifies the regular expression (regexp) used to match the CLI command. The command must have been successfully parsed before a match is attempted. The expression is compared to the fully expanded command and must match exactly, not just part of the command. When the expression contains embedded spaces enclose it in double quotes. (Optional) Specifies the number of matching occurrences before an Embedded Event Manager event is triggered. When a number is not specified, an Embedded Event Manager event is triggered after the first match. This number must be an integer greater than 0. (Optional) Specifies the time interval during which one or more occurrences must take place. When the keyword is not specified, no time period check is applied. 	
Command Default	None.			
Command Modes	EEM applet c	onfiguration (config-appl	et).	
Command History	Release	Modification		
	NX-OS 4.1(2) This command was intr	roduced.	
Usage Guidelines	This allows ar	applet to take action bef	CLI commands. By default, the triggering command is not executed. ore or after a command runs, or even prevent it from running. To run vent-default action at the stage in the applet where the command should	
Examples	The following	example shows how to r	natch the shutdown command as an applet trigger:	
	switch(confi switch(confi	figure terminal g)# event manager app g-applet)# event cli g-applet)# end		

The following example shows how to use spaces and regular expressions. Action 10 logs a syslog message and action 20 allows the matching command to complete normally.

```
switch# configure terminal
switch(config)# event manager applet fcanalyserCheck
switch(config-applet)# event cli match "fcanalyzer * mgmt*"
switch(config-applet)# action 10 syslog priority emergencies msg fcanalyser command used
for mgmt interface
switch(config-applet)# action 20 event-default
switch(config-applet)# end
```

Related Commands Com

Command	Description	
action	Configure EEM applet actions.	
show event manager event-types	Displays information about EEM event triggers.	
show event manager history events	Displays the history of EEM events.	
show running-config eem	Displays all EEM applets.	
tag	Correlate multiple events in an EEM applet. Correlate multiple events in an EEM applet.	

event counter

To configure a counter as an EEM applet trigger, use the **event counter** command. To delete the applet trigger, use the **no** form of the command.

event counter [tag tagname] name name entry-val value entry-op operator [exit-val value exit-op operator]

no event counter [**tag** *tagname*] **name** *name* **entry-val** *value* **entry-op** *operator* [**exit-val** *value* **exit-op** *operator*]

tag tagname	(Optional) Configures an event tag identifier. <i>tagname</i> specifies a handle for combining multiple events and this handle can be any string value of 1 to 29 characters.
name name	Configures the name of the counter to monitor.
	name can be any string value of 1 to 28 characters.
entry-val value	Configures a value to compare the named counter against. The event resets immediately unless an exit-val is specified.
	<i>value</i> is an integer in the range from 0 to 2147483647.
entry-op operator	Specifies how to compare the current value of the named counter with the specified value. The operator can be one of the following:
	• eq—Equal to
	• ge—Greater than or equal to
	• gt —Greater than
	• le—Less than or equal to
	• lt—Less than
	• ne —Not equal to
exit-val value	(Optional) Configures a value that the named counter must reach before resetting the event.
	<i>value</i> is an integer in the range from 0 to 2147483647.
exit-op operator	(Optional) Specifies how to compare the current value of the named counter with the specified value. The operator can be one of the following:
	• eq —Equal to
	• ge—Greater than or equal to
	• gt—Greater than
	• le—Less than or equal to
	• lt—Less than
	• ne —Not equal to
	name name entry-val value entry-op operator exit-val value

Correlate multiple events in an EEM applet. Correlate multiple events

Command Default	None.						
Command Modes	EEM applet configuration (config-applet).						
Command History	Release	Modification					
	NX-OS 4.1(2) This command was introduced.						
Usage Guidelines	None.						
Examples	The following example shows how to trigger an EEM applet when a counter named 'test' has a value of 0:						
	<pre>switch# configure terminal switch(config)# event manager applet testCtrIsZero switch(config-applet)# event counter name test entry-val 0 entry-op eq switch(config-applet)# end</pre>						
Related Commands	Command Description						
	show event manager event-types Displays information about EEM event triggers.						
	show event manager history events Displays the history of EEM events.						
	show running	show running-config eem Displays all EEM applets.					

in an EEM applet.

tag

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event fanabsent

To configure a fan absence as an EEM applet trigger, use the **event fanabsent** command. To delete the applet trigger, use the **no** form of the command.

fanabsent [fan fannumber] time seconds no fanabsent [fan fannumber] time seconds

Syntax Description	fan number	(Optional) Configures a chassis fan.
		fannumber range is platform specific.
	time seconds	Configures a time period.
		seconds range is 10 to 64000.

Command Default None.

Command Modes EEM applet configuration (config-applet).

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

Usage Guidelines This event specification monitors if a fan is removed from the chassis for a particular period of time. Embedded Event Manager takes an action based on the actions configured on the applet.

Examples

This example shows how to configure a an EEM applet to trigger after a fan absence of 300 seconds (5 minutes):

```
switch# configure terminal
switch(config)# event manager applet fanGoneForFiveMins
switch(config-applet)# event fanabsent fan 300
switch(config-applet)# end
```

Related Commands	Command	Description
	show event manager event-types	Displays information about EEM event triggers.
	show event manager history events	Displays the history of EEM events.
	show running-config eem	Displays all EEM applets.

event fanbad

To configure fanbad event specification, use the **event fanbad** command. To remove the fanbad event, use the **no** form of the command.

event fanbad [fan fannumber] time seconds no event fanbad [fan fannumber] time seconds

Syntax Description	fan fannumber	(Optional) Configures a chassis fan.
		<i>fannumber</i> range is platform specific.
	time seconds	Configures a time period.
		seconds range is 10 to 64000.

Command Modes EEM applet configuration (config-applet).

None.

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

Usage Guidelines This event specification monitors for the failure of any chassis cooling fan and Embedded Event Manager takes an action based on the actions configured on the applet.

Examples

Command Default

This example shows how to configure an EEM applet to trigger after a fan failure of 10 seconds:

```
switch# configure terminal
switch(config)# event manager applet applet1
switch(config-applet)# event fanbad time 10
switch(config-applet)# end
```

Related Commands	Command	Description
	show event manager event-types	Displays information about EEM event triggers.
	show event manager history events	Displays the history of EEM events.
	show running-config eem	Displays all EEM applets.

event fcns

To change the maximum number of FC Name Server (FCNS) entries allowed on a switch, use the **event fcns** command. You must override the default system policy **__fcns_entries_max_per_switch** with a new policy to do this. To remove the FCNS event, use the **no** form of the command.

event fcns entries max-per-switch count no event fcns entries max-per-switch count

Syntax Description	entries		Specifies FCNS Database entries.		
	max-per-switch count		Specifies an event to configure maximum FCNS database count per switch.		
			<i>count</i> specifies the maximum number of FCNS entries the switch will register. <i>count</i> range is platform specific.		
Command Default	None.				
Command Modes	EEM applet cont	figuratio	on (config-applet).		
Command History	Release	Modifi	cation		
	NX-OS 6.2(11)	This co	ommand was introduced.		
Usage Guidelines	The maximum number of name server entries that a switch can support is dependent on the platform. Refer to the <i>Cisco MDS NX-OS Release 6.2(13) Configuration Limits</i> document for platform specific limits.				
Examples	This example shows how to configure an Embedded Event Manager event when the FCNS database count per switch reaches a maximum:				
	<pre>switch# configure terminal switch(config)# event manager applet fcns_policy overridefcns_entries_max_per_switch switch(config-applet)# event fcns entries max-per-switch 9000 switch(config-applet)# end</pre>				s_max_per_switch
Related Commands	Command		Descriptio	1	

	Command	Description
5	show event manager event-types	Displays information about EEM event triggers.
5	show event manager history events	Displays the history of EEM events.
5	show running-config eem	Displays all EEM applets.

event flogi

To trigger an Embedded Event Manager (EEM) policy when certain fabric login (FLOGI) thresholds are exceeded, use the **event flogi** command. To remove the FLOGI event detection from the EEM policy, use the **no** form of this command.

event flogi {intf-max | module-max | switch-max} count no event flogi {intf-max | module-max | switch-max} count

Syntax Description	intf-max	Triggers an event when the number of successful and pending FLOGIs for any Fibre Channel interface exceeds the specified threshold.				
	module-max	dule-max Triggers an event when the number of successful and pending FLOGIs for any module exc the specified threshold.				
	switch-max	Triggers an event when the number of successful and pending FLOGIs for the switch exceeds the specified threshold.				
	count	Specifies the threshold value. The threshold value must be a positive integer. The FLOGI lim range per interface, module, and switch is platform specific. For more information on FLOO limits for different platforms, see the Cisco MDS NX-OS Configuration Limits document.				
Command Default	None.					
Command Modes	EEM applet configuration (config-applet)					
Command History	Release		Modification			
	Cisco NX-OS 6.2(11)		This command was introduce	ed.		
Usage Guidelines			vent triggers you must overric stem policies are:	le the corresponding default system policies with a new		
	event flogi			corresponding system policy		
	intf-max			flogi_fcid_max_per_intf		
	module-max			flogi_fcid_max_per_module		
	switch-max			flogi_fcid_max_per_switch		
Examples	This example the threshold			en the number of FLOGIs per interface exceeds		
	<pre>switch# configure terminal switch(config)# event manager applet flogiint overrideflogi_fcids_max_per_intf switch(config-applet)# event flogi intf-max 156 switch(config-applet)# end</pre>					

This example shows an event trigger that occurs when the number of FLOGIs per module exceeds the threshold value of 1024:

```
switch# configure terminal
switch(config)# event manager applet flogimod override __flogi_fcids_max_per_module
switch(config-applet)# event flogi module-max 1024
switch(config-applet)# end
```

This example shows an event trigger that occurs when the number of FLOGIs per switch exceeds the threshold value of 2000:

```
switch# configure terminal
switch(config)# event manager applet flogiswitch override __flogi_fcids_max_per_switch
switch(config-applet)# event flogi switch-max 2000
switch(config-applet)# end
```

Related Commands	Command	Description
	show event manager event-types	Displays information about EEM event triggers.
	show event manager history events	Displays the history of EEM events.
	show event manager system-policy	Displays default system policies.
	show running-config eem	Displays all EEM applets.

event gold

To create an online diagnostic test failure related event, use the **event gold** command. To remove the online diagnostic test failure related event, use the **no** form of the command.

event gold module {number | all} test name [severity {minor | moderate | major}] testing-type {scheduled | monitoring} consecutive-failure *count*

no event gold module $\{number \mid all\}$ test name [severity $\{minor \mid moderate \mid major\}$] testing-type $\{scheduled \mid monitoring\}$ consecutive-failure count

Syntax Description	number		Specifies the module number.	
	all		Selects all the module IDs.	
	test nam	e	Selects the diagnostic test.	
			name specifies the test name.	
	severity		Specifies the severity of the failure. It has the following values:	
			• minor—Minor failure	
	testing-type		 moderate—Moderate failure major—Major failure Specifies the type of testing. It has the following values: scheduled—(Deprecated) Scheduled test monitoring—Monitoring test 	
	consecuti	ve-failure count	Specifies the consecutive number of times the failure has occurred.	
			<i>count</i> specifies the failure count and the value is between 1 to 1000.	
Command Default	None.			
Command Modes	EEM apple	et configuration (co	onfig-applet).	
Command History	Release	Modification		
	NX-OS 6.2	This command was introduced.		
Usage Guidelines	None.			
Examples This example shows how to configure an EEM event when the GOLD on all modules 10 consecutive times.		configure an EEM event when the GOLD ASICRegisterCheck test fails ve times.		
	switch# c	onfigure termin	al	

switch(config)# event manager applet gold

switch(config-applet)# event gold module all test ASICRegisterCheck testing-type monitoring consecutive-failure 10

This example shows how to configure an EEM event when the GOLD PwrMgmtBus test fails on module 5 only 20 consecutive times.

```
switch# configure terminal
switch(config)# event manager applet gold
switch(config-applet)# event gold module 5 test PwrMgmtBus testing-type monitoring
consecutive-failure 20
```

Related Commands	Command	Description
	show event manager history events	Displays the history of EEM events.
	show running-config eem	Displays all EEM applets.

event memory

To configure memory thresholds event specification, use the **event memory** command. To remove the memory threshold event, use the **no** form of the command.

event memory {minor | severe | critical} no event memory {minor | severe | critical}

Syntax Description	minor	Spec	ifies minor alert.		
	severe	Spec	ifies severe alert.		
	critical	Spec	ifies critical alert.		
Command Default	None.				
Command Modes	EEM app	olet co	nfiguration (config-applet).		
Command History	Release Modification				
	NX-OS 4.1(2) This command was introd			ced.	
Usage Guidelines Examples	takes an a This exam switch# switch(c	nple s	based on the actions configur hows how to configure mem gure terminal	ory threshold event specification:	Event Manager
		-	<pre>applet) # event memory o applet) # end</pre>	critical	
Related Commands	Comman	nd		Description	
	show event manager event-types			Displays information about EEM event triggers.	
	show event manager history events			Displays the history of EEM events.	
	show running-config eem			Displays all EEM applets.	
	show sy	stem i	nternal memory-alerts-log	Displays the log of memory alerts.	

event module

To configure the module event specification, use the **event module** command. To remove the module event specification, use the **no** form of the command.

event module [tag *tagname*] status {online | offline | any} module {all *slot*} no event module [tag *tagname*] status {online | offline | any} module {all *slot*}

Syntax Description						
Syntax Description	taaname	(Optional) Configures an event tag identifier.				
		<i>tagname</i> specifies a handle for combining multiple events and this handle can be any string value of 1 to 29 characters.				
	status (Configures the status co	ndition.			
	online S	Specifies module status	changed to online.			
	offline S	Specifies module status changed to offline.				
	any S	Specifies module status changed to online or offline.				
	module (Configures which modules to monitor.				
	all S	Specifies all modules.				
<i>slot</i> Specifies a module number. The range is platform specific.						
Command Default	None.					
		nfiguration (config-app	lat)			
Command Modes	EEM applet co		iet).			
Command History	story Release Modification					
NX-OS 4.1(2) This command was introduced.			troduced.			
Usage Guidelines	This event specification monitors the module status change. Embedded Event Manager takes an action based on the actions configured on the applet.					
Examples	This example shows how to configure the module event specification in the device:					
	<pre>switch# configure terminal switch(config)# event manager applet bad-applet switch(config-applet)# event module status any module all switch(config-applet)# action 1.0 syslog priority informational msg "module status changed" switch(config-applet)# end</pre>					
Related Commands	Command		Description			
	show event m	anager event-types	Displays information about EEM event triggers.			

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Command	Description
show event manager history events	Displays the history of EEM events.
show running-config eem	Displays all EEM applets.

event module-failure

To create a module failure event specification, use the **event module-failure** command. To remove the module failure event, use the **no** form of the command.

event module-failure [tag tagname] type failure-type module {all slot} count count [time seconds] no event module-failure [tag tagname] type failure-type module {all slot} count count [time seconds]

Syntax Description	tag tagname	(Optional) Configures an event tag identifier.
		<i>tagname</i> specifies a handle for combining multiple events and this handle can be any string value of 1 to 29 characters.

type <i>failure-type</i> Configures the failure type				
type juiture-type Configures the failure type	to monitor.			
<i>failure-type</i> specifies wheth the type of failure condition	er one or all modules must be monitored. <i>failure-type</i> specifies ns listed below:			
addon-sequence-failur	addon-sequence-failure—Addon sequence failure			
• any	• any			
• hitless-upgrade-diag-f	• hitless-upgrade-diag-failure—Runtime diag failure after hitless upgrade			
• hitless-upgrade-failure	hitless-upgrade-failure—Hitless upgrade failure			
hitless-upgrade-procm	hitless-upgrade-procmgr-notif—LC software failure after hitless upgrade			
• hitless-upgrade-reg-fa	hitless-upgrade-reg-failure—Registration failure after hitless upgrade			
hitless-upgrade-seq-time	meout—Hitless upgrade sequence timeout			
• image-download-faile	d—Image download failure			
• image-upgrade-failed-	—Image upgrade failed			
• insertion-seq-failure—	-Insertion sequence failure			
• lc-failed—LC failed				
• lc-not-responding—L	• lc-not-responding—LC not responding			
Ic-ready-timeout—LC	Ic-ready-timeout—LC ready timeout			
Ic-sw-failure—LC sof	Ic-sw-failure—LC software failure			
registration-failure—F	Registration failure			
registration-timeout—	Registration timeout			
• runtime-diag-failure—	-Runtime diag failure			
runtime-diag-timeout-	-Runtime diag timeout			
sequence-timeout—Se	• sequence-timeout—Sequence timeout			
• srg-info-resp-timeout-	-SRG info response timeout			
unexpected-registratio	n—Unexpected registration received			
• upgrade-srg-not-comp	atible—Upgrade SRG not compatible			
module Configures which modules	to monitor.			
all Specifies all modules.				
slot Specifies a module number	The range is platform specific.			
countConfigures the number of r event is triggered.	natching occurrences before an Embedded Event Manager			
<i>count</i> specifies the number in the range 0 to 42949672	of repeated occurrences and this number must be an integer 95.			

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	time seconds	me seconds(Optional) Configures a time period.seconds is the period of module in failure state in seconds and this number must be an integer in the range 0 to 10000000.		
Command Default	None.			
Command Modes	EEM applet configuration (config-applet).			
Command History	Release Modification			
	NX-OS 4.1(2)	This command was in	troduced.	
Usage Guidelines	None.			
Examples	This example shows how to configure a module failure event specification:			
	<pre>switch# configure terminal switch(config)# event manager applet modfailed switch(config-applet)# event module-failure type lc-failed module all count 1 switch(config-applet)# action 1.0 syslog priority critical msg module failure detected switch(config-applet)# end</pre>			
Related Commands	Command		Description	
	show event m	anager event-types	Displays information about EEM event triggers.	
	show event manager history events		Displays the history of EEM events.	
	show running	-config eem	Displays all EEM applets.	
	tag		Correlate multiple events in an EEM applet. Correlate multiple events in an EEM applet.	

event oir

To configure an Online Insertion Removal event specification, use the **event oir** command. To remove the Online Insertion Removal event, use the **no** form of the command.

event oir [tag tagname] {fan | module | powersupply} {insert | remove | anyoir} [number] no event oir [tag tagname] {fan | module | powersupply} {insert | remove | anyoir} [number]

Syntax Description	tag tagname		(Optional) Configures an event tag identifier.		
	fan module powersupply insert remove anyoir		<i>tagname</i> specifies a handle for combining multiple events and this handle can be any string value of 1 to 29 characters.		
			Specifies the system fans. Optionally, specifies an individual fan.		
			Specifies the system modules. Optionally, specifies an individual module.		
			Specifies the system power supplies. Optionally, specifies an individual power supply.		
			Specify the OIR event that triggers the Embedded Event Manager applet.		
			• insert—OIR insert		
			• remove—OIR remove		
			• anyoir—Either OIR insert or OIR remove		
	number		(Optional) If you select fan, enter a fan number to monitor for an OIR event. The range is platform specific. If you select module, enter a module number to monitor an OIR event. The range is platform specific. If you select power supply, enter a power supply number to monitor an OIR event. The range is platform specific.		
Command Default	None.				
Command Modes	EEM applet co	nfiguration	n (config-applet).		
Command History	Release	Modificat	tion		
	NX-OS 4.1(2)	This com	mand was introduced.		
Usage Guidelines	-	specification monitors whenever there is insertion or removal of the following components: fan Id power supply. Embedded Event Manager takes an action based on the actions configured on the			
Examples	This example shows how to configure the Online Insertion Removal event specification: <pre>switch# configure terminal switch(config)# event manager applet moduleOir switch(config-applet)# event oir module anyoir</pre>				

switch(config-applet)# action 1.0 syslog priority informational msg a module was oir-ed switch(config-applet)# end

Related Commands	Command	Description
	show event manager event-types	Displays information about EEM event triggers.
	show event manager history events	Displays the history of EEM events.
	show running-config eem	Displays all EEM applets.
	tag	Correlate multiple events in an EEM applet. Correlate multiple events in an EEM applet.

event policy-default

To configure the event specification when the system policy is overridden, use the **event policy-default** command. To remove the configuration, use the **no** form of the command.

event policy-default count count [time seconds]
no event policy-default count count [time seconds]

Syntax Description	count count	count countConfigures the number of matching occurrences before an event is triggered.count specifies the number of repeated occurrences and this number must be an integer in the range 0 to 65000.				
	time seconds	place. When this optio	n is not spe	cified no time limit	it is app	more occurrences must take lied. ust be an integer in the range 0
Command Default	None.					
Command Modes	EEM applet configuration (config-applet).					
Command History	Release	Modification				
	NX-OS 4.1(2)	This command was int	troduced.			
Usage Guidelines	None.					
Examples	This example shows how to configure an event configuration when the system policy is overridden:				m policy is overridden:	
	<pre>switch# configure terminal switch(config)# event manager applet applet1 switch(config-applet)# event policy-default count 1 switch(config-applet)# end</pre>					
Related Commands	Command		Descriptio	n		

	-
show event manager history events	Displays the history of EEM events.
show running-config eem	Displays all EEM applets.

event poweroverbudget

The power over-budget policy gets triggered when the available power capacity drops below zero and the device is no longer able to keep the previously powered-up modules in the powered-up state. The default action is to print a syslog to notify the user of the occurrence of power over budget. To change the power over budget behavior, use the **event poweroverbudget** command. You must override the default system policy __**pfm_power_over_budget** with a new policy to do this. To remove the power over-budget event specification, use the **no** form of the command.

event poweroverbudget no event poweroverbudget

	no event pow	no event poweroverbudget			
Syntax Description	This command has no arguments or keywords. None.				
Command Default					
Command Modes	EEM applet co	EEM applet configuration (config-applet).			
Command History	Release	Modification			
	NX-OS 4.1(2)	This command was in	troduced.		
Usage Guidelines	None.				
Examples	This example shows how to shut down modules starting from module 1 when the available pow drops below zero:			ble power	
	<pre>switch# configure terminal switch(config)# event manager applet pobOverride overridepfm_power_over_budget switch(config-applet)# event poweroverbudget switch(config-applet)# event 4 overbudgetshut switch(config-applet)# end</pre>				
Related Commands	Command		Description		
	show event manager event-typesDisplays information about EEM event triggers.show event manager history eventsDisplays the history of EEM events.show running-config eemDisplays all EEM applets.				

event snmp

To configure an SNMP event, use the **event snmp** command. To remove the SNMP event, use the **no** form of the command.

Syntax Description	tag tagname	(Optional) Configures an event tag identifier.
		<i>tagname</i> specifies a handle for combining multiple events and this handle can be any string value of 1 to 29 characters.
	oid oid	Configures the OID to monitor.
		oid in dot notation.
	get-type	Retrieve the OID exactly as specified.
	exact	Retrieves the object ID specified by the OID value argument.
	next	Retrieve the OID that is the alphanumeric successor to the named OID.
	entry-op	Configures how to compare the value of the current OID with the specified value.
	Operator	A logical operator with the following meanings:
		• eq—Equal to
		• ge—Greater than or equal to
		• gt—Greater than
		• le—Less than or equal to
		• lt—Less than
		• ne —Not equal to
	entry-val value	Configures a value to compare against the current OID.
		<i>value</i> specifies a value and this number is an integer in the range from 0 to 2147483647.
	exit-comb	(Optional) Configures a combination of exit conditions that must be met before event monitor is re-enabled.
	and	(Optional) Specifies that an exit OID value and an exit time value must be reached.
	or	(Optional) Specifies that an exit OID value or an exit time value must be reached.
	exit-op	Configures how to compare the value of the current OID with the exit value. If there is a match an event is triggered and event monitoring is reenabled.

exit-val value	Configures the value with which the contents of the current OID are compared to decide whether the exit criteria are met. <i>value</i> specifies a value and this number is an integer in the range from 0 to 2147483647.
exit-time time	(Optional) Configures the time period after which the event monitoring is reenabled. The timing starts after the event is triggered. <i>time</i> is an integer in the range from 1 to 2147483647.
poll-interval	Configures the time interval between consecutive polls.

Command Default None.

Command Modes EEM applet configuration (config-applet).

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

Usage Guidelines

An Embedded Event Manager event is triggered when one of the fields specified by an SNMP object ID crosses a defined threshold. If multiple conditions exist, the SNMP event is triggered when all the conditions are met.

Exit criteria are optional. If exit criteria are not specified, event monitoring will be re-enabled immediately. If exit criteria are specified on the basis of values or time periods, the event monitoring is not re-enabled until the criteria are met.

When the **entry-op** keyword is used and there is a match, an event is triggered and event monitoring is disabled until the exit criteria are met.

When the **exit-op** keyword is used and there is a match, an event is triggered and event monitoring is re-enabled.

The entry-type keyword triggers one of the following actions:

- If the **value** keyword is specified, the entry-value is an actual value and an SNMP event is raised whenever the absolute value occurs.
- If the **increment** keyword is specified, the entry-value is an increment and an SNMP event is raised whenever the incremental value is reached.
- If the **rate** keyword is specified, the entry-value is a rate of change and an SNMP event is raised whenever the rate of change value is reached.

When the optional **exit-type** keyword is used, the following conditions occur:

- If the **value** keyword is specified, the exit value is an actual value and the event monitoring is re-enabled whenever the absolute value occurs. This is the default.
- If the **increment** keyword is specified, the exit value is an increment and the event monitoring is re-enabled whenever the incremental value is reached.
- If the **rate** keyword is specified, the exit value is a rate of change and the event monitoring is re-enabled whenever the rate of change value is reached.

Examples

The following example shows how to monitor the CPU free memory OID and log a corresponding syslog:

```
switch# configure terminal
switch(config)# event manager applet snmp-applet
switch(config-applet)# event snmp oid 1.3.6.1.4.1.9.9.109.1.1.1.1.1.3.1 get-type exact
entry-op lt entry-val 100000 poll-interval 60
switch(config-applet)# action 1.0 syslog priority warnings msg free memory fell below 100
Mb
switch(config-applet)# end
```

Related Commands	Command	Description
	show event manager event-types	Displays information about EEM event triggers.
	show event manager history events	Displays the history of EEM events.
	show running-config eem	Displays all EEM applets.
	tag	Correlate multiple events in an EEM applet. Correlate multiple events in an EEM applet.

event storm-control

By default, the packet storm feature takes limited action. The packet storm feature can be augmented with further actions, such as disabling the affected interface or sending SNMP traps, by using an EEM applet. To configure a packet storm event as an EEM applet trigger, use the **event storm-control** command. To delete the applet trigger, use the **no** form of the command.

event storm-control no event storm-control

Syntax Description	This command has no arguments or keywords.				
Command Default	None.	None.			
Command Modes	EEM applet co	EEM applet configuration (config-applet).			
Command History	Release	Modification			
	NX-OS 4.1(2)	This command was intr	roduced.		
Usage Guidelines	This command is only available on platforms that support the packet storm feature.				
Examples	The following on thresholds:	The following example show how to shutdown an interface that exceeds the packet storm feature hresholds:			
	<pre>switch# configure terminal switch(config)# event manager applet stormControlOverride switch(config-applet)# event storm-control switch(config-applet)# action 10 cli command "configure terminal" switch(config-applet)# action 20 cli command "interface \$interface" switch(config-applet)# action 30 cli command "shutdown" switch(config-applet)# action 40 cli command "end" switch(config-applet)# action 50 syslog priority notifications msg Storm control: \$interface shutdown due to \$cause switch(config-applet)# end</pre>				
Related Commands	Command		Description		

ted Commands	Command	Description
	show event manager event-types	Displays information about EEM event triggers.
	show event manager history events	Displays the history of EEM events.
	show running-config eem	Displays all EEM applets.
	storm-control	Configure packet storm thresholds on an interface.

event syslog

To specify event criteria for an Embedded Event Manager applet that is run by matching syslog messages, use the **event syslog** command in the applet configuration mode. To remove the syslog message event criteria, use the **no** form of the command.

event syslog [tag tagname] [occurs count | period interval | priority {0-7 | alerts | critical |debugging | emergencies | errors | informational | notifications | warnings}] pattern expressionno event syslog [tag tagname] [occurs count | period interval | priority {0-7 | alerts | critical |debugging | emergencies | errors | informational | notifications | warnings}] pattern expression

Syntax Description	tag tagname	(Optional) Configures an event tag identifier.	
		<i>tagname</i> specifies a handle for combining multiple events and this handle can be any string value of 1 to 29 characters.	
	occurs count	(Optional) Specifies the number of occurrences of the matched syslog messages to count before triggering the policy event.	
		count range is platform specific.	
	period interval	(Optional) Specifies the maximum time within which the timestamps of the triggering messages must fall.	
		<i>interval</i> range is platform specific.	
priority		(Optional) Specifies the number or name of the desired priority level at which syslog messages are matched. Messages at or numerically lower than the specified level are matched. The parameter for priority must be one of the following:	
		• 0 emergencies— Specifies syslog messages of emergency level (the system is unusable).	
		• 1 alerts— Specifies syslog messages of alert level (immediate action is needed).	
		• 2 critical— Specifies syslog messages of critical level (critical conditions).	
		• 3 errors— Specifies syslog messages of error level (error conditions).	
		• 4 warnings— Specifies syslog messages of warning level (warning conditions).	
		• 5 notifications— Specifies syslog messages of notification level (normal but significant conditions).	
		• 6 informational — Specifies syslog messages of informational level (informational messages).	
		• 7 debugging— Specifies syslog messages of debugging level (debugging messages).	
	pattern expression	Specifies a regular expression to match against syslog messages. The pattern must be quoted with " " quotes.	
		expression maximum size is 256 characters.	

tag

Command Default	If the occurs parameter is not specified, the default value of 1 is used.					
	If the period parameter is not specified, the default value of 0 is used.					
	If the pri	If the priority parameter is not specified, the default value of informational is used.				
Command Modes	EEM app	blet configuration (config-app	let).			
Command History	Release	Modification				
	5.2(1)	This command was introduc	ed.			
Usage Guidelines	lelines The syslog and Embedded Event Manager client processes run on each supervisor module in a system. Therefore, in dual supervisor systems, an event syslog command will be matched on both the active ar standby supervisors. Both Embedded Event Manager clients will notify the Embedded Event Manager pr process on the active supervisor causing the applet to be triggered twice. Be sure to take this potential d triggering in to account in the applet.					
	This command does not require a license.					
Examples	This example shows how to configure an applet to trigger after 10 "authentication failed" syslog events:					
	<pre>switch# configure terminal switch(config)# event manager applet auth-fails-applet switch(config-applet)# event syslog occurs 10 pattern "authentication failed" Configuration accepted successfully</pre>					
	This example shows how to configure an applet to tag module power up and standby online syslog events:					
	<pre>switch# configure terminal switch(config)# event manager applet mod-event-applet switch(config-applet)# event syslog tag moduleEvent pattern "(powered up is standby)" Configuration accepted successfully</pre>					
Related Commands	Commar	nd	Description			
	action s	yslog	Configures a syslog message to generate when an EEM applet is triggered.			
	show ev	ent manager history events	Displays the history of EEM events.			

in an EEM applet.

Correlate multiple events in an EEM applet. Correlate multiple events

event sysmgr

To override default system EEM policies, use the **event sysmgr** command. To remove the system manager-related event specification, use the **no** form of the command.

event sysmgr {memory [module mod-number] major value minor value clear value | switchover count count time seconds}

no event sysmgr {memory [module *mod-number*] major value minor value clear value | switchover count count time seconds}

Syntax Description	memory	Configures memory alert thresholds.		
	module mod-number	(Optional) Configures for a module. Default is all modules.		
		<i>mod-number</i> specifies a module number and the range is platform specific.		
	major value	Configures the major memory alert threshold.		
		<i>value</i> specifies the amount of used memory as a percentage.		
	minor value	Configures the minor memory alert threshold.		
		<i>value</i> specifies the amount of used memory as a percentage.		
	clear value	Configures the threshold memory usage must fall below to exit memory alert condition.		
		<i>value</i> specifies the amount of used memory as a percentage.		
	switchover count count	Configures switchover rate alert threshold. Configures the number of switchovers.		
		count range is from 1 to 65000.		
	time seconds	Configures the time interval during which the switchovers must take place to trigger the event.		
		seconds specifies the time period and the range is from 1 to 4294967295 seconds.		
Command Default	None.			

Command Default	None.		
Command Modes	EEM applet configuration (config-applet).		
Command History	Release	Modification	
	NX-OS 4.1(2)	This command was introduced.	
Usage Guidelines	None.		
Examples	The following examples show the default system switchover EEM policy and override the default triggering values with user defined values. The default action is retained.		

switch# show event manager system-policy __sysmgr_swover_count_alert

```
Name : __sysmgr_swover_count_alert
Description : Switchover count exceeded event. Default value: 20 switchovers within
1200 seconds. Default action: All linecards will be powered down.
Overridable : Yes
switch# configure terminal
switch(config)# event manager applet sup-so-override override __sysmgr_swover_count_alert
switch(config-applet)# event sysmgr switchover count 3 time 300
switch(config-applet)# action 1.0 policy-default
switch# show event manager system-policy __sysmgr_policy_mem_alert
Name : __sysmgr_policy_mem_alert
Description : service memory usage event
Overridable : Yes
```

switch# configure terminal

```
switch(config) # event manager applet sup-mem-override override __sysmgr_policy_mem_alert
switch(config-applet) # event sysmgr memory major 90 minor 80 clear 70
switch(config-applet) # action 1.0 policy-default
```

Related	Commands
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Command	Description
show event manager event-types	Displays information about EEM event triggers.
show event manager system-policy	Displays the default system EEM policies.
show event manager history events	Displays the history of EEM events.
show running-config eem	Displays all EEM applets.

event temperature

To specify an event criteria for an Embedded Event Manager (EEM) applet that is run on the basis of a temperature event, use the **event temperature** command in the applet configuration mode. To remove the temperature event criteria, use the **no** form of this command.

event temperature [module *slot*] [sensor *number*] threshold {major | minor | any} no event temperature [module *slot*] [sensor *number*] threshold {major | minor | any}

Syntax Description	module slat (Ontional) Configuras for particular modules			
oyntax bescription	module <i>slot</i>	(Optional) Configures for particular modules.		
		<i>slot</i> specifies a '-' and ',' delimited range of modules. The values are platform specific.		
	sensor (Optional) Configures for particular sensors.			
	number	number specifies a '-' and ',' delimited range of sensors and the values are module specific.		
	threshold	Specifies the threshold event that triggers the Embedded Event Manager applet.		
	major	Specifies a major event.		
	minor	Specifies a minor event.		
	any	Specifies any event.		
Command Default	None.			
Command Modes	EEM applet configuration (config-applet).			
Command History	Release	Modification		
	NX-OS 4.1(3)	This command was introduced.		
Usage Guidelines	None.			
Examples	This example shows the default system major temperature EEM policy and only performs the defau action for a major temperature alert for sensor #8 only.			
	switch# show	event manager systempfm_tempev_major		

Name : __pfm_tempev_major Description : TempSensor Major Threshold. Action: Shutdown Overridable : Yes

switch# configure terminal

```
switch(config)# event manager applet majortemp_override override __pfm_tempev_major
switch(config-applet)# event temperature module 1-3 sensor 8 threshold major
switch(config-applet)# action 1.0 policy-default
switch(config-applet)# end
```

Related Commands

Command	Description
show event manager event-types	Displays information about EEM event triggers.
show event manager history events	Displays the history of EEM events.
show event manager policy	Displays the register EEM applets.
show event manager system-policy	Displays the default system EEM applets.

event zone

The zone server database is constantly monitored by NX-OS. When the threshold of any of the monitored zone database parameters is exceeded an Embedded Event Manager (EEM) event is triggered. This is used to generate an EEM action for the event. To override the system default thresholds at which each parameter triggers an EEM event, use the **event zone** command.

event zone {zones max-per-switch | zonesets max-per-switch | zonemembers max-per-switch | dbsize max-per-vsan | zone-member-ratio } count no event zone {zones max-per-switch | zonesets max-per-switch | zonemembers max-per-switch | dbsize max-per-vsan | zone-member-ratio } count

Syntax Description	zones	Specifies the total number of configured zones at which to trigger an Embedded Event Manager event.
	zonesets	Specifies the threshold zoneset count at which to trigger an Embedded Event Manager event.
zonemembers		Specifies the total number of zone members at which to trigger an Embedded Event Manager event.
	dbsize	Specifies the threshold zone database size in bytes at which to trigger an Embedded Event Manager event.
	max-per-switch	Configures the number of allowed zones on the switch.
	max-per-vsan	Configures the value for each VSAN.
2	zone-member-ratio	Specifies the threshold zone member ratio of a device at which to trigger an Embedded Event Manager event. The range is 2 to 2000.
	count	Specifies the threshold value.

Command Default This feature is not configured by default.

Command Modes

EEM applet configuration (config-applet).

Command History	Release	Modification
	8.5(1)	Added the zone-member-ratio keyword.
	6.2(11)	This command was introduced.

Usage Guidelines

By default, zoning resource alert thresholds are controlled by system EEM policies. These are:

Policy Name	Default Value	Default Action
zonezonesmaxper_sw	16000 for the switch	syslog
zone_zonesets_max_per_sw	1000 for the switch	syslog

Policy Name	Default Value	Default Action
zone_members_max_per_sw	32000 for the switch	syslog
zone_dbsize_max_per_vsan	4000000 bytes per VSAN	syslog
zone_member_ratio	8 peers per device	syslog

Fan-out ratio is the number of target ports zoned to a single initiator. Fan-in ratio is the number of initiators zoned to a single target port. Zone member ratio is a superset of fan-out and fan-in ratios.

These policies log syslog messages when preconfigured thresholds are reached to alert the user of high resource usage by the zone service. The thresholds and actions may be over ridden by the user or the actions augmented by further actions (such as sending an SNMP trap).

Examples

This example shows the default system per VSAN maximum zone database size EEM policy and, overrides the database size alert threshold and shows the new policy information. The default action is retained.

```
\texttt{switch} \texttt{\# show event manager system-policy \__zone\_dbsize\_max\_per\_vsan}
```

```
Name : __zone_dbsize_max_per_vsan
Description : Syslog warning when Zone database size exceeds the max limit of 4000000
bytes for a vsan.
Overridable : Yes
```

```
switch# configure terminal
switch(config)# event manager applet newzonedb override __zone_dbsize_max_per_vsan
switch(config-applet)# event zone dbsize max-per-vsan 1000000
switch(config-applet)# action 1.0 policy-default
switch(config-applet)# end
switch# show ev man policy internal newzonedb
Name : newzonedb (overrides __zone_dbsize_max_per_vsan)
Policy Type : applet
Event Specification : event zone dbsize max-per-vsan 1000000
action 1.0 policy-default
Event Specification active on : Active
```

This example shows how to configure and activate an EEM applet to override the maximum zone count on a system. The default action is overridden by an action to generate a syslog message.

```
switch# configure terminal
switch(config)# event manager applet zonemaxsw override __zone_zones_max_per_sw
switch(config-applet)# action 1.0 syslog priority informational msg "zone zonemaxswitch
override"
switch(config-applet)# end
```

This example shows how to configure and activate an EEM applet to override the maximum zoneset count on a system. The default action is overridden by an action to generate a syslog message.

```
switch# configure terminal
switch(config)# event manager applet zonesetmaxsw override __zone_zonesets_max_per_sw
switch(config-applet)# action 1.0 syslog priority informational msg "zone zonesetmaxswitch
```

override"
switch(config-applet) # end

This example shows how to configure and activate an EEM applet called *zoneratio* to override the default system policy and configure the zone member ratio limit to 20. The default action, syslog, is retained.

```
switch# configure terminal
switch(config)# event manager applet zoneratio override _____zone__member_ratio
switch(config-applet)# event zone zone-member-ratio 20
switch(config-applet)# action 1.0 policy-default
switch(config-applet)# end
```

Related Commands	Command	Description
	action	Configures an action in an EEM applet.
	show event manager event-types	Displays information about EEM event triggers.
	show event manager history events	Displays the history of EEM events.
	show event manager policy internal	Displays user policies that override system policies.
	show event manager system-policy	Displays the default system EEM applets.
	show zone analysis	Display detailed analysis and statistical information about the zoning database including information about the zone member ratio if configured.

event manager applet

To register an applet with the Embedded Event Manager (EEM) and to enter applet configuration mode, use the **event manager applet** command. To unregister the applet, use the **no** form of the command.

event manager applet *applet-name* [override *system-policy*] no event manager applet *applet-name*

Syntax Description	applet-name	The applet na	me can be any case-sensitive alphanu	meric string up to 29 characters.	
	override system	<i>n-policy</i> (Optional) Co	(Optional) Configures the applet to override an existing system policy.		
		system-policy	specifies the name of the system pol	icy to override.	
Command Default	None.				
Command Modes	Global configu	ration.			
Command History	Release	Modification			
	NX-OS 4.1(3)	This command was in	troduced.		
Usage Guidelines	None.				
Examples	This example shows how to register an applet with EEM and to enter applet configuration mode:				
	<pre>switch# configure terminal switch(config)# event manager applet eem-applet switch(config-applet)# end</pre>				
Related Commands	Command		Description		
	show event m	anager history events	Displays the history of EEM events.		

event manager applet maxrun

To configure the maximum runtime of the applet with the Embedded Event Manager (EEM) use the **event manager applet maxrun** command. To remove the maximum runtime of the applet, use the **no** form of the command.

	event man	ager applet applet-name maxrun max-runtime	
	no event i	manager applet <i>applet-name</i>	
Syntax Description	<i>applet-name</i> The applet name can be any case-sensitive alphanumeric string up to 29 characters.		
	maxrun	(Optional) Specifies the maximum runtime of the applet.	
		If the maxrun keyword is specified, the maxruntime-number value must be specified. If the maxrun keyword is not specified, the default applet run time is 20 seconds.	
	max-runtime	Specifies the maximum runtime of applet in seconds. The range is from 0 to 2147483647 seconds.	
Command Default	None.		
Command Modes	Applet configu	iration (config-applet)	
Command History	Release	Modification	
	NX-OS 4.1(3)	This command was introduced.	
Usage Guidelines	None.		
	This example s	shows how to register an applet with EEM and to enter applet configuration mode:	
	switch# configure terminal switch(config)# event manager applet eem-applet switch(config-applet)# maxrun 26253		

Related Commands	Command	Description	
	show event manager history events	Displays the history of EEM events.	

event manager environment

To configure an Embedded Event Manager (EEM) environment variable, use the **event manager environment** command. To disable an Embedded Event Manager environment variable, use the **no** form of the command.

event manager environment environment-name environment-value no event manager environment environment-name

Syntax Description	environment-no	-				variable name can be any
	case-sensitive alphanumeric			string up to 29 charact	ters.	
	environment-vo		Specifies the value of the EEM environment. The variable name can be any alphanumeric string up to 39 characters.			ne can be any case-sensitive
Command Default	None.					
Command Modes	Global configur	ration.				
Command History	Release	Modification				
	NX-OS 4.1(3)	This command was in	troduced.			
Usage Guidelines	None.					
Examples	The following example shows how to set an EEM environment variable:					
		· _	vironmen	: emailto "admin@any	place.c	om″
Related Commands	Command		Descript	on		
	show event manager environment Display		Displays	the name and value of the	he EEM.	
	show event ma	anager history events	Displays	the history of EEM eve	ents.	
	show event ma	anager policy	Displays	the register EEM apple	ets.	

event manager policy

To register and activate an Embedded Event Manager (EEM) script policy, use the **event manager policy** command in the global configuration mode. To deactivate the script policy, use the **no** form of the command.

event manager policy *policy-script* no event manager policy *policy-script*

Syntax Description		1		anager policy script. This r The maximum size of the	name becomes the name of the name is 29 characters.
Command Default	None.				
Command Modes	Global Config	uration.			
Command History	Release	Modification			
	NX-OS 4.1(3)	This command was in	troduced.		
Usage Guidelines	User policy scripts must be installed in the bootflash://eem/user_script_policies directory before they can used. If this directory does not exist, create this directory before the first use of this command and install policy scripts in it.				
	contained with	in the policy itself. When	n the even		an event specification that is d is invoked, the Embedded Event event occurs.
Examples	The following	example shows how to	register a	policy:	
		igure terminal g)# event manager po g)# end	licy mod	lescript	
Related Commands	Command		Descript	on]
	show event m	anager history events	Displays	the history of EEM events.	-
	event manage	er applet	Displays	an applet with the EEM.	

event zone

The zone server database is constantly monitored by NX-OS. When the threshold of any of the monitored zone database parameters is exceeded an Embedded Event Manager (EEM) event is triggered. This is used to generate an EEM action for the event. To override the system default thresholds at which each parameter triggers an EEM event, use the **event zone** command.

event zone {zones max-per-switch | zonesets max-per-switch | zonemembers max-per-switch | dbsize max-per-vsan | zone-member-ratio } count

no event zone {zones max-per-switch | zonesets max-per-switch | zonemembers max-per-switch | dbsize max-per-vsan | zone-member-ratio } *count*

Syntax Description zones		Specifies the total number of configured zones at which to trigger an Embedded Event Manager event.
	zonesets	Specifies the threshold zoneset count at which to trigger an Embedded Event Manager event.
	zonemembers	Specifies the total number of zone members at which to trigger an Embedded Event Manager event.
	dbsize	Specifies the threshold zone database size in bytes at which to trigger an Embedded Event Manager event.
	max-per-switch	Configures the number of allowed zones on the switch.
	max-per-vsan	Configures the value for each VSAN.
	zone-member-ratio	Specifies the threshold zone member ratio of a device at which to trigger an Embedded Event Manager event. The range is 2 to 2000.
	count	Specifies the threshold value.

Command Default This feature is not configured by default.

Command Modes

EEM applet configuration (config-applet).

Command History	Release	Modification
	8.5(1)	Added the zone-member-ratio keyword.
	6.2(11)	This command was introduced.

Usage Guidelines

By default, zoning resource alert thresholds are controlled by system EEM policies. These are:

Policy Name	Default Value	Default Action
zonezones_max_per_sw	16000 for the switch	syslog
zone_zonesets_max_per_sw	1000 for the switch	syslog

Policy Name	Default Value	Default Action
zone_members_max_per_sw	32000 for the switch	syslog
zone_dbsize_max_per_vsan	4000000 bytes per VSAN	syslog
zone_member_ratio	8 peers per device	syslog

Fan-out ratio is the number of target ports zoned to a single initiator. Fan-in ratio is the number of initiators zoned to a single target port. Zone member ratio is a superset of fan-out and fan-in ratios.

These policies log syslog messages when preconfigured thresholds are reached to alert the user of high resource usage by the zone service. The thresholds and actions may be over ridden by the user or the actions augmented by further actions (such as sending an SNMP trap).

Examples

This example shows the default system per VSAN maximum zone database size EEM policy and, overrides the database size alert threshold and shows the new policy information. The default action is retained.

```
switch# show event manager system-policy __zone_dbsize_max_per_vsan
```

```
Name : __zone_dbsize_max_per_vsan
Description : Syslog warning when Zone database size exceeds the max limit of 4000000
bytes for a vsan.
Overridable : Yes
```

This example shows how to configure and activate an EEM applet to override the maximum zone count on a system. The default action is overridden by an action to generate a syslog message.

```
switch# configure terminal
switch(config)# event manager applet zonemaxsw override __zone_zones_max_per_sw
switch(config-applet)# action 1.0 syslog priority informational msg "zone zonemaxswitch
override"
switch(config-applet)# end
```

This example shows how to configure and activate an EEM applet to override the maximum zoneset count on a system. The default action is overridden by an action to generate a syslog message.

```
switch# configure terminal
switch(config)# event manager applet zonesetmaxsw override __zone_zonesets_max_per_sw
switch(config-applet)# action 1.0 syslog priority informational msg "zone zonesetmaxswitch
```

override"
switch(config-applet)# end

This example shows how to configure and activate an EEM applet called *zoneratio* to override the default system policy and configure the zone member ratio limit to 20. The default action, syslog, is retained.

```
switch# configure terminal
switch(config)# event manager applet zoneratio override _____zone__member_ratio
switch(config-applet)# event zone zone-member-ratio 20
switch(config-applet)# action 1.0 policy-default
switch(config-applet)# end
```

Related Commands	Command	Description
	action	Configures an action in an EEM applet.
	show event manager event-types	Displays information about EEM event triggers.
	show event manager history events	Displays the history of EEM events.
	show event manager policy internal	Displays user policies that override system policies.
	show event manager system-policy	Displays the default system EEM applets.
	show zone analysis	Display detailed analysis and statistical information about the zoning database including information about the zone member ratio if configured.

exit

To exit any configuration mode or close an active terminal session and terminate the EXEC, use the **exit** command at the system prompt.

	exit		
Syntax Description	This command has no arguments or keywords.		
Command Default	None.		
Command Modes	EXEC and configuration modes.		
Command History	Release Modification		
	4.1(1b) Modified the command output.		
	1.0(2) This command was introduced.		
Usage Guidelines	Use the exit command at the EXEC levels to exit the EXEC mode. Use the exit command at the configuration level to return to privileged EXEC mode. Use the exit command in interface configuration mode to return to configuration mode. You also can press Ctrl-Z , or use the end command, from any configuration mode to return to EXEC mode.		
Examples	Note The exit command is associated with privilege level 0. If you configure AAA authorization for a privilege level greater than 0, this command will not be included in the command set for that privilege level.		
·	<pre>switch(config-port-monitor)# exit switch(config)#</pre>		
	The following example displays an exit from the interface configuration mode for VRRP to return to the interface configuration mode:		
	<pre>switch(config-if-vrrp)# exit switch(config-if)#</pre>		
	The following example displays an exit from the interface configuration mode to return to the configuration mode:		
	<pre>switch(config-if)# exit switch(config)#</pre>		
	The following example shows how to wit an estive session (log out):		

The following example shows how to exit an active session (log-out):

switch# **exit**

Related Commands

Command	Description
end	Returns you to EXEC mode.

I