

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

Related Commands	Command	Description			
	<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>				
Examples	The following example shows how to configure the SA to the egress hardware				
Usage Guidelines	None.				
	NX-OS 4.2(1)	This command was introduced.]		
Command History	Release	Modification			
Command Modes	Configuration s	submode.			
Command Default	None.	None.			
Syntax Description	spi-number	he range is from 256 to 42949672	295.		
Suntax Description	· 1 m		205		

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

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-add	email-address Configures an e-mail address. Uses a standard e-mail address that does not have any text strestrictions.			
Command Default	None.				
Command Modes	Call Hom	ne con	figuration submode.		
Command History	Release Modification				
	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:				
	Enter co switch(c	onfigu	ig terminal uration commands, one per line. End with CNTL/Z. g)# callhome g-callhome)# email-contact username@company.com		
Related Commands	Comman	d	Description		
	callhome Configures the Call Home function.		Configures the Call Home function.		
	callhome	e test	Sends a dummy test message to the configured destination(s).		
	show callhome	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 com	This command has no arguments or keywords.			
Command Default	None.				
Command Modes	Configur	ation Sec	cure Erase algorithm sub	mode	
Command History	Release	Release Modification			
	6.2(1)	This co	mmand was deprecated.		
	3.3(1a)	This co	mmand was introduced.		
Usage Guidelines	None.	None.			
Examples	The following example shows how to remove all steps of the user-configured algorithm:				
	Enter co switch(c	onfigura config)#	<pre>terminal tion commands, one p secure-erase module se-algo)# empty</pre>	er line. End with CNTL/Z. 2 algorithm 0	
Related Commands	Comman	Command Description			
	add-step dynamic		Adds a dynamic pattern	n step to a specific algorithm.	
	add-step	add-step static Adds static pattern step to a specific algorithm.			

I

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.				
Command Modes	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 commands				
	switch# enab switch#	le 15			
Related Commands	Command I	Description]		

Related Commands

S	Command	Description
	enable secret	Displays the secret for privilege escalation.

L

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.

Command Modes Call Home configuration submode.

Command History	Release	Modification
	1.0(2)	This command was introduced.

Usage Guidelines To disable the Call Home function, use the 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 test	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.

validation:

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

Syntax Description	This command has no arguments or keywords.		
Command Default	None.		
Command Modes	Configuration submode.		
Command History	Release Modification		
	NX-OS 5.0	This command was introduced.	
Usage Guidelines	None.		
Examples	The following example shows how to enable group 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	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 Configu	ration 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 tex switch(config) # enable secret 0 admin priv-lvl 4 switch(config) #			
	The following e	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 or keywords.

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

I

To configure an encryption algorithm for an IKE protocol policy, use the encryption command. To revert to the default, use the no form of the command.

encryption 3des | aes | des no encryption

Syntax Description	3des Specifies 168-bit DES (3)		BDES).	
	aes Sp	ecifies 128-bit AES-C	CBC.	
	des Sp	ecifies 56-bit DES-CI	3S.	
Command Default	3des			
Command Modes	IKE policy configuration submode.			
Command History	Release	Modification		
	2.0(x)	This command was	introduced.	
Usage Guidelines	To use this command, the IKE protocol must be enabled using the crypto ike enable command.			
Examples	The following example shows how to configure the encryption algorithm for the IKE protocol:			
	<pre>switch# config terminal switch(config)# crypto ike domain ipsec switch(config-ike-ipsec)# policy 1 switch(config-ike-ipsec-policy)# encryption 3des</pre>			
Related Commands	Command		Description	
	crypto i	ke domain ipsec	Enters IKE configuration mode.	
	crypto ike enable		Enables the IKE protocol.	
	policy		Configures IKE policy parameters.	
	show cr	ypto ike domain ipsec	Displays IKE information for the IPsec domain.	

end

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.	None.			
Command Modes	Configuration mode.				
Command History	Release	Release Modification			
	4.1(1b)	Modified the command output.			
	1.0(2)	This command was introduced.			
Usage Guidelines	You can also press Ctrl-Z to exit configuration mode.				
Examples	The following example shows how to exit from configure mode:				
	switch(config-port-monitor)# end switch#				
Related Commands	Comman	d Description			
	exit Exits configuration mode, or any of the configuration mode				

enrollment terminal

	command	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 com	mand has no arguments or keyw	ords.		
Command Default		ult enrollment method is manual arrently supports.	cut-and-paste, which is the only enrollment method that the MDS		
Command Modes	Trust poi	nt configuration submode.			
Command History	Release	Release Modification			
	3.0(1)	This command was introduced.			
Usage Guidelines	None.	None.			
Examples	The following example shows how to configure trust point enrollment through the switch console:				
	<pre>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:</pre>				
	<pre>switch(config)# crypto ca trustpoint admin-ca switch(config-trustpoint)# no enrollment terminal</pre>				
Deleted Original de					

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 S	num-times Specifies the flap number.				
	count S	Specifies the count. The range is from 1 to 1023. Specifies the time in seconds.				
	duration S					
	m	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 4.1(3) This command was introduced.					
Usage Guidelines	The port guard feature is used in environments where the system and application does not adapt quick 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 take seconds to stabilize after the port goes down, this situation might cause a more severe failure in the fall					
	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 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# configure terminal Switch (config)# interface fc1/1 Switch (config-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

bit-errors were detected, the duration must be set to 225 or more seconds. Command Default None. Command Modes Interface Configuration 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 sefficiently to a port going down and backup or to a port rapidly cycling up and down which can happen i some failure modes. For example, if the port is going up and down once a second, and the system takes f 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		·				
duration Specifies the time in seconds. duration Specifies the time in seconds. 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 fibit-errors were detected, the duration must be set to 225 or more seconds. Command Default None. Command Modes Interface Configuration 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. efficiently to a port going down and backup or to a port rapidly cycling up and down which can happen i some failure modes. For example, if the port is going up and down once a second, and the system takes f seconds to stabilize after the port goes down, this situation might cause a more severe failure in the fabri. 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 findure, or after a specified number of failures in a specified time period. This allows 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 findure, or after a specified number of failures in a specified time period. This allows the SAN administrator to rability corfligue to enfigure to enfigure to enfigure to enfigure torend in the rore: swit	Syntax Description	num-times	Specifies the number of flaps.			
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 fibit-errors were detected, the duration must be set to 225 or more seconds. Command Default None. Command Modes Interface Configuration submode. Command History Release Modification NX-OS 4.2(1) This command was introduced. The port guard feature is used in environments where the system and application does not adapt quickly efficiently to a port going down and backup or to a port rapidly cycling up and down which can happen i some failure modes. For example, if the port is going up and down once a second, and the system takes f 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 fir failure, or after a specified number of failures in a specified time period. This allows the SAN administrat 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 bit errors:		count	Specifies the count. The range is from 1 to 1023.			
multiplied by 45. For example, to configure a port to move to the error disabled state when fibit-errors were detected, the duration must be set to 225 or more seconds. Command Default None. Command Modes Interface Configuration 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 efficiently to a port going down and backup or to a port rapidly cycling up and down which can happen is some failure modes. For example, if the port is going up and down once a second, and the system takes for 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 fir failure, or after a specified number of failures in a specified time period. This allows the SAN administrator 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 bit errors:		duration	Specifies the time in seconds.			
Command Modes Interface Configuration 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 efficiently to a port going down and backup or to a port rapidly cycling up and down which can happen i some failure modes. For example, if the port is going up and down once a second, and the system takes f 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 fir 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 bit errors:			multiplied by 45. For example, to configure a port to move to the error disabled state when fiv			
Command History Release Modification IVsage Guidelines The port guard feature is used in environments where the system and application does not adapt quickly a efficiently to a port going down and backup or to a port rapidly cycling up and down which can happen i some failure modes. For example, if the port is going up and down once a second, and the system takes f 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 fir failure, or after a specified number of failures in a specified time period. This allows the SAN administrator 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 bit errors:	Command Default	None.				
Usage Guidelines This command was introduced. Usage Guidelines The port guard feature is used in environments where the system and application does not adapt quickly is efficiently to a port going down and backup or to a port rapidly cycling up and down which can happen is some failure modes. For example, if the port is going up and down once a second, and the system takes for 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 fir failure, or after a specified number of failures in a specified time period. This allows the SAN administration the recovery and avoiding any problems caused by the cycling. Examples The following example shows how to enable error-disable detection on bit errors:	Command Modes	Interface Co	onfiguration submode.	A		
Usage Guidelines The port guard feature is used in environments where the system and application does not adapt quickly is efficiently to a port going down and backup or to a port rapidly cycling up and down which can happen is some failure modes. For example, if the port is going up and down once a second, and the system takes f 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 fir failure, or after a specified number of failures in a specified time period. This allows the SAN administrate 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 bit errors:	Command History	Release	Modification			
 efficiently to a port going down and backup or to a port rapidly cycling up and down which can happen i some failure modes. For example, if the port is going up and down once a second, and the system takes f 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 fir failure, or after a specified number of failures in a specified time period. This allows the SAN administrate 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 bit errors: 		NX-OS 4.2	2(1) This command was introduced.			
Examples 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 bit errors: switch# configure terminal switch(config)# interface fc1/1	Usage Guidelines	efficiently to some failure seconds to s The port gua environmen				
switch# configure terminal switch(config)# interface fc1/1						
<pre>switch(config)# interface fc1/1</pre>	Examples	The following	owing example shows how to enable error-disable detection on bit errors:			
		switch(con	witch(config)# interface fc1/1			
Related Commands Command Description	Related Commands	Command	nd Description			
show interface Displays the interface status information.		show interf	ìace	Displays the interface status information.		
show running-config interface Displays the running configuration on the interface.		show runni	ng-config interface	Displays the running configuration on the interface.		
show interface status err-disabled Displays the Ethernet interface error status information.		show interf	how 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 S	-times Specifies the flap number.			
	count S	Specifies the count. The range is from 1 to 1023.			
	duration S	Specifies the time in seconds.			
	n	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	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 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				
Examples	The followin Switch# con Switch (con Switch (con	<pre>ene and control the recovery and avoiding any problems caused by the cycling. owing example shows how to enable error-disable detection on a credit loss: configure terminal (config) # interface fc1/1 (config-if) # errdisable detect cause credit-loss num-times 5 duration 225 (config-if) #</pre>			
Related Commands	Command		Description		
	show interfa	ce	Displays the interface status information.		
	show runnin	w running-config interface Displays the running configuration on the interface.			

I

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 Sp	num-times Specifies the flap number.		
	count Sp	count Specifies the count. The range is from 1 to 1023.		
	duration Sp	duration Specifies the time in seconds.		
	sec Th	he range is from 1 to	> 2000000.	
Command Default	None.			
Command Modes	- Interface Conf	iguration submode.		
Command History	Release	Modification		
	NX-OS 4.2(1)	This command wa	as introduced.	
Usage Guidelines	efficiently to a some failure m	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.		
	environments t failure, or after	that are vulnerable t r a specified number	AN administrator the ability to prevent this issue from occurring in to these problems. The port can be configured to stay down after the first of failures in a specified time period. This allows the SAN administration ery and avoiding any problems caused by the cycling.	
Examples	The following	example shows how	w to enable error-disable detection 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 interface	e	Displays the interface status information.	
	show running	-config interface	Displays the running configuration on the interface.	
	show interface	e status err-disabled	Displays the Ethernet interface 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 S	num-times Specifies the flap number.			
	count S	count Specifies the count. The range is from 1 to 1023.			
	duration Specifies the time in seconds.				
	sec T	he range is from 1 to	2000000.		
Command Default	None.				
Command Modes	Interface Con	figuration submode.			
Command History	Release	Modification			
	NX-OS 4.2(1	NX-OS 4.2(1) This command was introduced.			
Usage Guidelines	and efficiently in some failur five seconds to	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 following	g example shows how	v to enable error-disable or	a signal loss:	
	Switch# configure terminal Switch (config)# interface fc1/1 Switch (config-if)# errdisable detect cause signal-loss num-times 5 duration 30 Switch (config-if)#			30	
Related Commands	Command		Description		
	show interfac	ce	Displays the interface stat	us information.	
	show running	g-config interface	Displays the running conf	iguration on the interface.	
	about interfee	a status are disabled	Diaplays the Ethernot inte	rface error status information	

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

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 number.
	count	Specifies the count. The range is from 1 to 1023.
	duration	Specifies the time in seconds.
	sec	The range is from 1 to 2000000.

Command Default None.

Command Modes Interface Configuration 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 synchronized loss:

Switch# configure terminal
Switch (config)# interface fc1/1
Switch (config-if)# errdisable detect cause sync-loss num-times 5 duration 30
Switch (config-if)#

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 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	nes Specifies the flap number.		
	count	Specifies the count. The range is from 1 to 1023.		
	duration	Specifies the time in s	seconds.	
	sec	The range is from 1 to	o 2000000.	
Command Default	None.			
Command Modes	Interface Co	onfiguration submode.		
Command History	Release	Modification		
	NX-OS 4.2	P(1) This command w	as 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			
	failure, or a	fter a specified numbe	to these problems. The port can be configured to stay down after the first r of failures in a specified time period. This allows the SAN administration ery and avoiding any problems caused by the cycling.	
Examples	The followi	ng example shows how	w to enable error-disable detection on a trustsec violation:	
	switch#(cc switch#(cc	-	le detect cause trustsec-violation num-times 1 duration 1	
Related Commands	Command		Description	
	show inter	face	Displays the interface status information.	
	show runni	ing-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.
			tagname specifies a handle for combining multiple events and this handle can be any string value of 1 to 29 characters.
	match expression count countnum		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.
	time seconds		(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 co	onfiguration (config-apple	et).
Command History	Release	Modification	
	NX-OS 4.1(2)	This command was intr	roduced.
Usage Guidelines	This allows an	applet to take action bef	CLI commands. By default, the triggering command is not executed. Fore 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 match the shutdown command as an applet trigger:		
	<pre>switch# configure terminal switch(config)# event manager applet blockShutdownCmd switch(config-applet)# event cli match "shutdown" switch(config-applet)# end</pre>		

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	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]

Syntax Description	tag tagname	(Optional) Configures an event tag identifier.		
		tagname 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.		
		value 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		
ex		• ne—Not equal to		
	exit-val value	(Optional) Configures a value that the named counter must reach before resetting the event.		
		value 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		
		· · · · · · · · · · · · · · · · · · ·		

Correlate multiple events in an EEM applet. Correlate multiple events

Command Default	None.		
Command Modes	EEM applet co	nfiguration (config-a	pplet).
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 ma	nager event-types	Displays information about EEM event triggers.
	show event ma	nager history events	Displays the history of EEM events.
	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.

Command Default

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.
		fannumber range is platform specific.
	time seconds	Configures a time period.
		seconds range is 10 to 64000.

None.

Command ModesEEM applet configuration (config-applet).Command HistoryReleaseModificationNX-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 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 F	Specifies FCNS Database entries.			
	max-per-switch	count Specifies a	Specifies an event to configure maximum FCNS database count per switch.			
		-	count specifies the maximum number of FCNS entries the switch will register. count range is platform specific.			
Command Default	None.					
Command Modes	EEM applet con	figuration (config-a	oplet).			
Command History	Release Modification					
	NX-OS 6.2(11)	NX-OS 6.2(11) This command was introduced.				
Usage Guidelines	The maximum number of name server entries that a switch can support is dependent on the platform. Refer to the Cisco MDS NX-OS Release 6.2(13) Configuration Limits 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:			CNS database		
	<pre>switch# configure terminal switch(config)# event manager applet fcns_policy overridefcns_entries_max_per_swi switch(config-applet)# event fcns entries max-per-switch 9000 switch(config-applet)# end</pre>				s_max_per_switch	
Related Commands	Command		Description			

Jommands	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 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 Ch interface exceeds the specified threshold.				
	module-max Triggers an event when the number of successful and pending FLOGIs for any module the specified threshold.				
	switch-max	Triggers an event when the number of successful and pending FLOGIs for the switch exceeds the specified threshold.			
	count	range pe	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 FLOG 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		Modification		
	Cisco NX-O	TX-OS 6.2(11) This command was introduced		1.	
Usage Guidelines			vent triggers you must override stem policies are:	the corresponding default system policies with a new	
	event flogi			corresponding system policy	
	intf-max			flogi_fcid_max_per_intf	
	module-max switch-max			flogi_fcid_max_per_module	
				flogi_fcid_max_per_switch	
Examples	This example the threshold			the number of FLOGIs per interface exceeds	

```
switch# configure terminal
switch(config)# event manager applet flogiint override __flogi_fcids_max_per_intf
switch(config-applet)# event flogi intf-max 156
switch(config-applet)# end
```

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-typescheduled | monitoring consecutive-failure count

no event gold module number | all test name [severity minor | moderate | major] testing-typescheduled | monitoring consecutive-failure count

Syntax Description	number	Specifies the module number.
	all	Selects all the module IDs.
	test name	Selects the diagnostic test.
		name specifies the test name.
	severity	Specifies the severity of the failure. It has the following values:
		• minor—Minor failure
		• moderate—Moderate failure
		• major—Major failure
	testing-type	Specifies the type of testing. It has the following values:
		• scheduled—(Deprecated) Scheduled test
		monitoring—Monitoring test
	consecutive-failure count	Specifies the consecutive number of times the failure has occurred.
		count specifies the failure count and the value is between 1 to 1000.
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Command Default	None.	

Command Modes EEM applet configuration (config-applet).

Command History	Release	Modification
	NX-OS 6.2	This command was introduced.

Usage Guidelines None. Examples Thise

This example shows how to configure an EEM event when the GOLD ASICRegisterCheck test fails on all modules 10 consecutive times.

switch# configure terminal
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	Speci	fies minor alert.		
	severe	Speci	fies severe alert.		
	critical	Speci	fies critical alert.		
Command Default	None.				
Command Modes	EEM ap	plet co	nfiguration (config-applet)).	
Command History	Release)	Modification		
	NX-OS 4.1(2) This command was introduced.				
Usage Guidelines Examples	takes an This exa switch# switch (switch (action mple s confi config config	based on the actions confi	emory threshold event specification:	
Related Commands	Comma	nd		Description	
	show ev	vent ma	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.				
	show system internal 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	tag (Optional) Configures an event tag identifier.					
		tagname specifies a handle for combining multiple events and this handle can be any string value of 1 to 29 characters.				
	status C	Configures the status c	condition.			
	online S	pecifies module statu	s changed to online.			
	offline S	pecifies module statu	s changed to offline.			
	any S	Specifies module status changed to online or offline.				
	module C	Configures which modules to monitor.				
	all S	pecifies all modules.				
	slot S	Specifies a module number. The range is platform specific.				
Command Default	None.					
Command Modes	EEM applet co	onfiguration (config-a	pplet).			
Command History	Release	Modification				
	NX-OS 4.1(2)	This command was	introduced.			
Usage Guidelines		is event specification monitors the module status change. Embedded Event Manager takes an action base 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 change 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.	
		tagname specifies a handle for combining multiple events and this handle can be any string value of 1 to 29 characters.	

type failure-type	Configures the failure type to monitor.					
	failure-type specifies whether one or all modules must be monitored. failure-type specifies the type of failure conditions listed below:					
	addon-sequence-failure—Addon sequence failure					
	• any					
	• hitless-upgrade-diag-failure—Runtime diag failure after hitless upgrade					
	• hitless-upgrade-failure—Hitless upgrade failure					
	• hitless-upgrade-procmgr-notif—LC software failure after hitless upgrade					
	• hitless-upgrade-reg-failure—Registration failure after hitless upgrade					
	• hitless-upgrade-seq-timeout—Hitless upgrade sequence timeout					
	• image-download-failed—Image download failure					
	• image-upgrade-failed—Image upgrade failed					
	• insertion-seq-failure—Insertion sequence failure					
	• lc-failed—LC failed					
	Ic-not-responding—LC not responding					
	Ic-ready-timeout—LC ready timeout					
	Ic-sw-failure—LC software failure					
	registration-failure—Registration failure					
	registration-timeout—Registration timeout					
	• runtime-diag-failure—Runtime diag failure					
	runtime-diag-timeout—Runtime diag timeout					
	sequence-timeout—Sequence timeout					
	srg-info-resp-timeout—SRG info response timeout					
	unexpected-registration—Unexpected registration received					
	• upgrade-srg-not-compatible—Upgrade SRG not compatible					
module	Configures which modules to monitor.					
all	Specifies all modules.					
slot	Specifies a module number. The range is platform specific.					
count count	Configures the number of matching occurrences before an Embedded Event Manager event is triggered.					
	count specifies the number of repeated occurrences and this number must be an integer the range 0 to 4294967295.					

	time seconds (Optional) Configures a time period.				
		seconds is the period of module in failure state in seconds and this number must be 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	introduced.		
Usage Guidelines	None.				
Examples	This example s	hows how to configu	re 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 ma	nager event-types	Displays information about EEM event triggers.		
	show event manager history e		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.		
			tagname specifies a handle for combining multiple events and this handle can be any string value of 1 to 29 characters.		
	fan		Specifies the system fans. Optionally, specifies an individual fan.		
	module		Specifies the system modules. Optionally, specifies an individual module.		
	powersupply		Specifies the system power supplies. Optionally, specifies an individual power supply.		
	insert rem	ove	Specify the OIR event that triggers the Embedded Event Manager applet.		
	anyoir		• insert—OIR insert		
	range is platform specific. If you select module, enter a module number to mor an OIR event. The range is platform specific. If you select power supply, ento power supply number to monitor an OIR event. The range is platform specifi		• remove—OIR remove		
			• anyoir—Either OIR insert or OIR remove		
			(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					
Command Modes	EEM applet co	nfiguration	n (config-applet).		
Command History	Release	Modifica	tion		
	NX-OS 4.1(2)	This com	umand was introduced.		
Usage Guidelines	elines This event specification monitors whenever there is insertion or removal of the following components: far module, and power supply. Embedded Event Manager takes an action based on the actions configured on applet. This example shows how to configure the Online Insertion Removal event specification: switch# configure terminal switch(config)# event manager applet moduleOir switch(config-applet)# event oir module anyoir				
Examples			to configure the Online Insertion Removal event specification:		
			manager applet moduleOir		

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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	Configures 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	time seconds (Optional) Configures the time interval during which one or more occurrences must take place. When this option is not specified no time limit is applied.					
		seconds specifies the number of seconds and this number must be an integer in the range 0 to 4294967295.					
Command Default	None.						
Command Modes	EEM applet co	nfiguration (config-applet).					
Command History	Release	Modification					
	NX-OS 4.1(2)	This command was introduced.					
Usage Guidelines	None.						
Examples	This example shows how to configure an event configuration when the system policy is overridden:						

```
switch# configure terminal
switch(config)# event manager applet applet1
switch(config-applet)# event policy-default count 1
switch(config-applet)# end
```

Related Commands	Command	Description
	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

Syntax Description	This command has no arguments or keywords.				
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	This example shows how to shut down modules starting from module 1 when the available power drops below zero:				ilable 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-types		Displays info	rmation about EEM event triggers.	-
	show event manager history events Displays the history of EEM events.				1
	show running-	config eem	Displays all E	EEM applets.	1

event snmp

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

event snmp [tag tagname] oid oid get-type exact | next entry-op gt | ge | eq | ne | lt | le entry-val value [exit-comb or | and exit-op gt | ge | eq | ne | lt | le exit-val value exit-time time | exit-op gt | ge | eq | ne | lt | le exit-val value] poll-interval time

no event snmp [tag tagname] oid oid get-type exact | next entry-op gt | ge | eq | ne | lt | le entry-val value [exit-comb or | and exit-op gt | ge | eq | ne | lt | le exit-val value exit-time time | exit-op gt | ge | eq | ne | lt | le exit-val value] poll-interval time

Syntax Description	tag tagname	(Optional) Configures an event tag identifier.
		tagname 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.
		value 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.
	value 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.
	time 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.		
Command Modes	EEM applet co	nfiguration (config-applet).	
Command History	Release	Modification	
	NX-OS 4.1(2)	This command was introduced.	
Usage Guidelines	This command	is only available on platforms the	t support the packet storm feature.
Examples	The following thresholds:	example show how to shutdown a	n interface that exceeds the packet storm feature
	<pre>switch (config switch (config switch (config switch (config switch (config switch (config switch (config switch (config shutdown dug</pre>		ol mand "configure terminal" mand "interface \$interface" mand "shutdown"

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.
	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 expression no event syslog [tag tagname] [occurs count | period interval | priority 0-7 | alerts | critical | debugging | emergencies | errors | informational | notifications | warnings] pattern expression

tag tagname	(Optional) Configures an event tag identifier.tagname 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.
	interval 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.
	occurs count period interval priority pattern

Command Default	If the occ	curs parameter is not spec	ified, the default value of 1 is used.	
	If the per	riod parameter is not speci	ified, the default value of 0 is used.	
	If the prie	ority parameter is not spec	cified, the default value of informational is used.	
Command Modes	EEM app	plet configuration (config-	applet).	
Command History	Release	Modification		
	5.2(1)	This command was intro	duced.	
Usage Guidelines	Therefore standby s process o	e, in dual supervisor syste supervisors. Both Embedde	Manager client processes run on each supervisor module in a system. ems, an event syslog command will be matched on both the active and ed Event Manager clients will notify the Embedded Event Manager primary using the applet to be triggered twice. Be sure to take this potential double et.	
	This command does not require a license.			
Examples	This exan events:	mple shows how to config	gure an applet to trigger after 10 "authentication failed" syslog	
	switch(c switch(c		syslog occurs 10 pattern "authentication failed"	
	This exan events:	nple shows how to config	gure an applet to tag module power up and standby online syslog	
	<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 sy	yslog	Configures a syslog message to generate when an EEM applet is triggered.	

Displays the history of EEM events.

in an EEM applet.

Correlate multiple events in an EEM applet. Correlate multiple events

show event manager history events

tag

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.
		mod-number specifies a module number and the range is platform specific.
	major value	Configures the major memory alert threshold.
		value specifies the amount of used memory as a percentage.
	minor value	Configures the minor memory alert threshold.
		value specifies the amount of used memory as a percentage.
	clear value	Configures the threshold memory usage must fall below to exit memory alert condition.
		value 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 Modes	EEM applet con	nfiguration (config-applet).	
Command History	Release	Modification	
	NX-OS 4.1(2)	This command was introduced.	
Usage Guidelines	None.		
Examples	U	examples show the default system es with user defined values. The c	n switchover EEM policy and override the default 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 slot	(Optional) Configures for particular modules. slot specifies a '-' and ',' delimited range of modules. The values are platform specific.
	sensor number	(Optional) Configures for particular sensors. 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).
---------------	---

None.

Command History	Release	Modification
	NX-OS 4.1(3)	This command was introduced.

Usage Guidelines

Examples

This example shows the default system major temperature EEM policy and only performs the default action for a major temperature alert for sensor #8 only.

switch# show event manager system __pfm_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
```

S	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.
	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
zone_zones_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
```

```
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	The applet name can be any case-sensitive alphanumeric string up to 29 characters.		
	override system	n-policy (Optional)	(Optional) Configures the applet to override an existing system policy.		
		system-pol	system-policy specifies the name of the system policy to override.		
Command Default	None.				
Command Modes	Global configu	ration.			
Command History	Release	Modification			
	NX-OS 4.1(3)	This command was	s introduced.		
Usage Guidelines	None.				
Examples	This example s	hows how to registe	r an applet with EEM and to enter ap	plet configuration mode:	
	<pre>switch# configure terminal switch(config)# event manager applet eem-applet switch(config-applet)# end</pre>				
Related Commands	Command		Description]	
	show event ma	nager history events	s 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-	case-sensitive a	case-sensitive alphanumeric string up to 29 characters.			
Command Default	None.					
Command Modes	Global configu	uration.				
Command History	Release	Modification				
	NX-OS 4.1(3)) This command was	introduced.			
Usage Guidelines	None.	None.				
Examples	The following	example shows how t	to set an EEM environment variable:			
	switch# conf switch(confi switch(confi	.com″				
Related Commands	Command					
	show event m	anager environment	Displays the name and value of the EEM.			
	show event m	anager history events	Displays the history of EEM events.			
	show event m	anager policy	Displays the register EEM applets.			

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					s name becomes the name of the he name is 29 characters.	
Command Default	None.					
Command Modes	Global Configu	uration.				
Command History	Release Modification					
	NX-OS 4.1(3)	This command was	introduced.			
Usage Guidelines User policy scripts must be installed in the bootflash://eem/user_script_policies directory before used. If this directory does not exist, create this directory before the first use of this command an policy scripts in it.						
	contained with	in the policy itself. W	hen the ever	-	of an event specification that is and is invoked, the Embedded Event d event occurs.	
Examples	The following	example shows how t	to register a	policy:		
<pre>switch# configure terminal switch(config)# event manager policy modulescript switch(config)# end</pre>						
Related Commands	Command Description					
	show event ma	anager history events	Displays th	e history of EEM events.		
	event manager 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

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

Policy Name	Default Value	Default Action
zone_zones_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
```

```
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.

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.		
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.		
Examples	The following example displays an exit from the submode:		
	<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 exit an active session (log-out):		

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switch# **exit**

Related Commands

_	Command	Description
	end	Returns you to EXEC mode.