

C Commands

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

callhome

To enter the CLI Call home configuration mode, use the callhome command.

callhome

Syntax Description	This command has n	o arguments or	keywords
•		U	~

- Defaults Disabled
- Command Modes Global configuration mode
- SupportedUserRoles network-admin vdc-admin

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

Usage Guidelines This command does not require a license.

Examples This example shows how to enter the Call home configuration mode:

switch(config)# callhome
switch(config-callhome)#

Related Commands	snmp-server contact	Specifies or modifies the snmp-server contact name for Call home.
	email-contact	Specifies the e-mail address of the person responsible for the device.
	phone-contact	Specifies the phone number of the person responsible for the device.
	streetaddress	Specifies the street address of the person responsible for the device.
	contract-id	Specifies the service agreement contract number for this device.
	customer-id	Specifies the service agreement customer number for this device.
	site-id	Specifies the site ID number for this device.
	switch-priority	Specifies the priority number for this device.
	destination-profile	Creates and configures a Call home destination profile.
	enable	Enables Call home. By default, Call home is disabled.
	callhome test	Sends a test message to all configured destinations.

callhome send	Sends the specified Call home test message to all configured destinations.
show callhome	Displays the Call home configuration.

callhome send

To send a Call home message to all configured destinations, use the callhome send command.

callhome send [configuration | diagnostic]

Syntax Description	configuration	(Optional) Sends a configuration message.
	diagnostic	(Optional) Sends a diagnostic message.
Defaults	None	
Command Modes	Any command mo	de
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator	
Command History	Release	Modification
	4.0(1)	This command was introduced.
Usage Guidelines	This command doe	es not require a license.
Examples	This example show	vs how to send a Call home configuration message:
	<pre>switch(config)# c trying to send c switch(config)#</pre>	callhome send configuration onfiguration callhome message
Related Commands	Command	Description
	callhome	Enters the Call home configuration mode.
	callhome test	Sends a test message to all configured Call home destinations.
	show callhome	Displays the Call home configuration.

callhome test

To send a test message to all configured Call home destinations, use the callhome test command.

callhome test {inventory}

	-	
Syntax Description	inventory	Sends a dummy callhome inventory to all configured Call home destinations.
Defaults	None	
Command Modes	Any command mod	le
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator	
Command History	Release	Modification
	4.0(1)	This command was introduced.
Usage Guidelines	This command doe	s not require a license.
Examples	This example show	s how to send a Call home test message:
	<pre>switch(config)# c trying to send te switch(config)#</pre>	allhome test est callhome message
Related Commands	Command	Description
	callhome	Enters the Call home configuration mode.
	callhome send	Sends a configuration or diagnostic message to all configured Call home destinations.
	show callhome	Displays the Call home configuration.

cdp advertise

To configure the Cisco Discovery Protocol (CDP) version supported by the device, use the **cdp advertise** command. To remove the CDP configuration, use the **no** form of this command.

cdp advertise $\{v1 | v2\}$

no cdp advertise [v1 | v2]

Syntax Description	v1	Specifies CDP Version 1.
	v2	Specifies CDP Version 2.
Defaulte	None	
Delaults	None	
Command Modes	Global configura if-ethernet-all con if-gig-ether confi if-eth-base (confi if-mgmt-ether (co	tion mode (config) nfiguration (config-if-ethernet-all) guration (config-if-gig-ether) g-if-eth-base) onfig-if-mgmt-ether)
SupportedUserRoles	network-admin vdc-admin	
Command History	Release	Modification
	4.0(1)	This command was introduced.
Usage Guidelines	This command do	bes not require a license.
Examples	This example sho	ows how to configure the CDP version:
	switch(config)# switch(config)	cdp advertise v2
	This example sho	ows how to remove the CDP configuration:
	<pre>switch(config)# switch(config)</pre>	no cdp advertise v2
Related Commands	Command	Description
	cdp enable	Enables CDP on an interface.

cdp enable

To enable Cisco Discovery Protocol (CDP) on an interface, use the **cdp enable** command. To disable CDP, use the **no** form of this command.

cdp enable

no cdp enable

Syntax Description	This command has no arguments or keywords.		
Defaults	None		
Command Modes	Global configur	ration mode (config)	
SupportedUserRoles	network-admin vdc-admin		
Command History	Release	Modification	
	4.0(1)	This command was introduced.	
Usage Guidelines	This command o	does not require a license.	
Examples	This example sh	hows how to enable CDP on an interface:	
	switch(config) switch(config))# cdp enable)#	
	This example sh	hows how to disable CDP on an interface:	
	switch(config))# no cdp enable	

Related Commands	Command	Description
	cdp advertise	Configures the CDP version supported by the device.

cdp format device-id

To configure a device ID format for Cisco Discovery Protocol (CDP), use the **cdp format device-id** command. To remove the device ID format, use the **no** form of this command.

cdp format device-id {mac-address | serial-number | system-name}

no cdp format device-id {mac-address | serial-number | system-name}

Syntax Description	mac-address	Specifies the MAC-address of the chassis.
	serial-number	Specifies the chassis serial number or Organizationally Unique Identifier (OUI).
	system-name	Specifies the system name. The default is fully qualified domain name.
Defaults	None	
Command Modes	Global configura	tion mode (config)
SupportedUserRoles	network-admin vdc-admin	
Command History	Release	Modification
	4.0(1)	This command was introduced.
Usage Guidelines	This command d	oes not require a license.
Examples	This example sh	ows how to configure a device ID format for CDP:
	switch(config) switch(config)	<pre># cdp format device-id mac-address #</pre>
	This example she	ows how to remove the device ID format:
	switch(config) switch(config)	f no cdp format device-id mac-address f
Related Commands	Command	Description
	cdp enable	Configures a device ID format for CDP.

cdp holdtime

To configure the time that Cisco Discovery Protocol (CDP) holds onto neighbor information before refreshing it, use the **cdp holdtime** command. To remove the CDP hold time, use the **no** form of this command.

cdp holdtime seconds

no cdp holdtime seconds

Syntax Description	seconds	Hold time in seconds. The range is from 10 to 255.
Defaults	None	
Command Modes	Global configurati	on mode (config)
SupportedUserRoles	network-admin vdc-admin	
Command History	Release	Modification
	4.0(1)	This command was introduced.
Usage Guidelines	This command do	es not require a license.
Examples	This example show	ws how to configure a time that CDP holds onto neighbor information:
	<pre>switch(config)# switch(config)#</pre>	cdp holdtime 30
	This example show	ws how to remove the CDP hold time:
	<pre>switch(config)# switch(config)#</pre>	no cdp holdtime 30
Related Commands	Command	Description
	cdp timer	Configures the CDP refresh time interval.

cdp timer

To configure the Cisco Discovery Protocol (CDP) refresh time interval, use the **cdp timer** command. To remove the CDP refresh time interval configuration, use the **no** form of this command.

cdp timer seconds

no cdp timer seconds

Syntax Description	seconds	Time interval in seconds. The range is from 5 to 254.
Defaults	None	
Command Modes	Global configurat	ion mode (config)
SupportedUserRoles	network-admin vdc-admin	
Command History	Release	Modification
	4.0(1)	This command was introduced.
Usage Guidelines	This command do	es not require a license.
Examples	This example sho	ws how to configure the CDP refresh time interval:
	<pre>switch(config)# Switch(config)#</pre>	
	<pre>Ins example sho switch(config)# switch(config)#</pre>	no cdp timer 45
Related Commands	Command	Description
	cdp holdtime	Configures the time that CDP holds onto neighbor information before refreshing it.

cfs distribute

To globally enable Cisco Fabric Services (CFS) distribution for the device, use the **cfs distribute** command. To disable CFS distribution, use the **no** form of this command. To remove the CFS configuration, use the **no** form of this command.

cfs distribute

no cfs distribute

Syntax Description	This command has no arguments or keywords.		
Defaults	Enabled		
Command Modes	Global configuration mode		
SupportedUserRoles	network-admin vdc-admin		
Command History	Release	Modification	
	4.1(2)	This command was introduced.	
Usage Guidelines	This command does not a In order to distribute con and the application. CFS is enabled by default receive distributions. If CFS distribution is dist and it does not accept a c	require a license. figuration information, CFS distribution must be enabled for both the device t for the device. All devices in the fabric must have CFS enabled or they do not abled for an application, that application does not distribute any configuration listribution from other devices in the fabric.	
Examples	This example shows how to enable CFS distribution: switch(config)# cfs distribute		
Related Commands	show cfs status	Displays the CFS distribution status.	
	role distribute	Enables CFS to distribute role configurations.	
	<pre>show application_name status</pre>	Displays the status of the specified application, including whether CFS distribution is enabled for the application.	
	cfs region	Specifies a region for limiting the CFS distribution scope.	

cfs eth

To globally configure the device to use Ethernet to distribute changes for all Cisco Fabric Services (CFS)-enabled applications, use the **cfs eth** command. To remove the CFS configuration, use the **no** form of this command.

cfs eth {distribute}

no cfs eth distribute

Syntax Description	distribute E	Enables CFS distribution over Ethernet.	
Defaults	None		
Command Modes	Global configuration mode (config)		
SupportedUserRoles	network-admin vdc-admin		
Command History	Release	Modification	
	4.1(2)	This command was introduced.	
Usage Guidelines	This command doe	s not require a license.	
Examples	This example show CFS-enabled applic switch(config)# c	s how to configure the device to use Ethernet to distribute changes for all cations:	
	<pre>switch(config)#</pre>		
	This example shows how to remove the CFS configuration:		
	<pre>switch(config)# no cfs eth distribute This will prevent CFS from distributing over Ethernet network. Are you sure? (y/n) n switch(config)#</pre>		
Related Commands	Command	Description	
	cfs distribute	Globally enables CFS distribution for the device.	
	show cfs status	Displays the CFS distribution status.	

cfs ipv4

To globally configure the device to use IPv4 to distribute changes for all Cisco Fabric Services (CFS)-enabled applications, use the **cfs ipv4** command. To remove the CFS configuration, use the **no** form of this command.

cfs ipv4 [mcast | distribute]

no cfs ipv4 [mcast | distribute]

Syntax Description	mcast	(Optional) Configures the IPv4 multicast address over which configuration changes are distributed.	
	distribute	(Optional) Configures the device to use IPv4 to distribute changes in CFS-enabled applications.	
Defaults	The default IPv4 multicast address is 239.255.70.83.		
Command Modes	Global configuration mode		
SupportedUserRoles	network-admin vdc-admin		
Command History	Release	Modification	
	4.1(2)	This command was introduced.	
Usage Guidelines	This command doe	es not require a license.	
	CFS cannot distribute over both IPv4 and IPv6 from the same device.		
	In order to distribute configuration information, CFS distribution must be enabled for both the device and the application.		
	CFS is enabled by default for the device. All devices in the fabric must have CFS enabled or they do not receive distributions.		
	If CFS distribution is disabled for an application, that application does not distribute any configuration and it does not accept a distribution from other devices in the fabric.		
	CFS over IP must	be disabled before you can change the multicast address.	
Examples	This example show multicast address of	vs how to first disable CFS distribution over IPv4 and then configure the IPv4 over which configuration changes are distributed:	
	switch(config)# : This will preven	no cfs ipv4 distribute t CFS from distributing over IPv4 network.	

Are you sure? (y/n) [n] y
switch(config)# cfs ipv4 mcast-address 239.255.1.1
Distribution over this IP type will be affected
Change multicast address for CFS-IP ?
Are you sure? (y/n) [n] y

Related Commands

cfs distribute	Globally enables CFS distribution for the device.
cfs Specifies a CFS distribution mode.	
show cfs status	Displays the CFS distribution status.
application_name distribute	Enables distribution for the specified application, such as RADIUS.
<pre>show application_name status</pre>	Displays the status of the specified application, such as RADIUS, including whether CFS distribution is enabled for the application.

cfs region

To create a Cisco Fabric Services (CFS) region that limits the distribution scope of an application, use the **cfs region** command. To remove the region or the application, use the **no** form of this command.

cfs region region_id

application_name

no cfs region

no application_name

Syntax Description	region_id	CFS region that is identified by numbers 0 through 200. Region 0 is the default
		region and it contains every device in the fabric that is not assigned to another
		region. You can configure region number 1 through 200.
	application name	Application that you assign to the specified region for CFS distribution.

Defaults The default region ID is 0.

Command Modes Global configuration mode CFS region configuration mode

SupportedUserRoles network-admin vdc-admin

 Release
 Modification

 4.1(2)
 This command was introduced.

Usage Guidelines If a feature is moved, that is, assigned to a new region, its scope is restricted to that region; it ignores all other regions for distribution or merging purposes.

You can set up a CFS region to distribute configurations for multiple applications. However, on a given device, only one CFS region at a time can distribute the configuration for a given application.

Once you assign an application to a CFS region, its configuration cannot be distributed within another CFS region.

If you remove an application from a region, and do not assign it into a different region, it is added to the default region, region 0.

If you attempt to add an application to the same region more than once, the following message appears:

Application already present in the same region.

In order to distribute configuration information, CFS distribution must be enabled for both the device and the application.

CFS is enabled by default for the device. All devices in the fabric must have CFS enabled or they do not receive distributions.

If CFS distribution is disabled for an application, then that application does not distribute any configuration and it does not accept a distribution from other devices in the fabric.

This command does not require a license.

Examples

This example shows how to create region 4 and add the NTP application to it. When you create a region, the CLI places you into region configuration mode for that region, where you can then add an application.

```
switch(config)# cfs region 4
switch(config-cfs-region)# callhome
switch(config-cfs-region)# show cfs region brief
```

Region	Application	Enabled
4	ntp	no
4	callhome	no
6	igmp	yes
6	radius	no

switch(config-cfs-region)#

Related Commands	show cfs region	Displays the CFS distribution region(s) configured for the device.
	show cfs status	Displays the CFS distribution status.
	application_name distribute	Enables distribution for the specified application, such as NTP.
	<pre>show application_name status</pre>	Displays the status of the specified application, such as NTP, including whether CFS distribution is enabled for the application.

check logflash

To check the compactFlash, use the **check logflash** command.

check logflash [bad-blocks]

Syntax Description	bad-blocks	(Optional) Finds bad blocks in compactFlash.
Defaults	None	
Command Modes	Any command mo	de
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator	
Command History	Release	Modification
	4.0(3)	This command was introduced.
Usage Guidelines	This command does not require a license.	
Examples	This example shows how to check compactFlash: switch# check logflash	

checkpoint

To configure the rollback checkpoint, use the **checkpoint** command. To delete the checkpoint, use the **no** form of this command.

checkpoint {name | description description | file name }

no checkpoint name

Syntax Description	name	(Optional) Checkpoint name used in the checkpoint database. The name can be any alphanumeric string up to 80 characters but cannot contain spaces.	
	description description	(Optional) Specifies the checkpoint description for the given checkpoint. The description can contain up to 80 alphanumeric characters, including spaces.	
	file name	(Optional) Specifies the filename used to save the checkpoint.	
Defaults	None		
Command Modes	Any command mode		
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator		
Command History	Release	Modification	
	4.0(1)	This command was introduced.	
Usage Guidelines	If you use the checkpoint command without a name, Cisco NX-OS creates the file with the name auto-x, where x is a decimal number that increases each time you create an unnamed checkpoint file.		
	This command does not require a license.		
Examples	This example shows how	to configure the rollback checkpoint:	
	switch# checkpoint stable switch#		
	This example shows how to delete the checkpoint file:		
	switch# no checkpoint stable		

switch#

Related Commands	Command	Description
	clear checkpoint database	Displays the contents of the checkpoint file.

clear callhome session

To clear a Call home Cisco Fabric Services (CFS) distribution session, use the **clear callhome session** command.

clear callhome session

Syntax Description	This command has no arguments or keywords.		
Defaults	None		
Command Modes	Any command mode		
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator		
Command History	Release	Modification	
	4.0(1)	This command was introduced.	
Usage Guidelines	This command does not require a license.		
Examples	This example shows how to clear a Call home CFS distribution session: switch(config)# clear callhome session		
Related Commands	Command	Description	
	callhome	Enters the Call home configuration mode.	
	callhome send	Sends a configuration or diagnostic message to all configured Call home destinations.	
	show callhome	Displays the Call home configuration.	

clear cdp

To clear Cisco Discovery Protocol (CDP) statistics on an interface, use the clear cdp command.

clear cdp {counters [interface interface] | table [interface interface]}

Syntax Description	counters	Clears CDP counters on all interfaces.	
	interface	(Optional) Clears CDP counters on an interface.	
	interface		
	table	Clears CDP cache on all interfaces.	
Defaults	None		
Command Modes	Any command	mode	
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator		
Command History	Release	Modification	
	4.0(1)	This command was introduced.	
Usage Guidelines	This command does not require a license.		
Examples	This example s	shows how to clear CDP statistics on an interface:	
	<pre>switch(config)# clear cdp counters switch(config)#</pre>		
Related Commands	Command	Description	
	enable cdp	Enables CDP on an interface.	
	-		

clear checkpoint database

To delete all checkpoint files in the database, use the clear checkpoint database command.

clear checkpoint database

Syntax Description	This command has no as	rguments or keywords.
Defaults	None	
Command Modes	Any command mode	
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator	
Command History	Release	Modification
	4.0(1)	This command was introduced.
Usage Guidelines	This command does not	require a license.
Examples	This example shows how	w to clear the checkpoint database:
	switch# clear checkpo Processing the Reques Done switch#	int database t Please Wait
Related Commands	Command	Description
	show checkpoint	Displays the contents of the checkpoint file.

clear cores

To clear the core files, use the **clear cores** command.

clear cores [archive]

archive	(Optional) Clears the core file on the logflash file system.	
None		
Any command mode		
network-admin network-operator vdc-admin vdc-operator		
Release	Modification	
4.0(1)	This command was introduced.	
Use the show system c This command does no	ores command to display information about the core files. t require a license.	
This example shows ho switch# clear cores	ow to clear the core file:	
This example shows how to clear the core on the logflash file system:		
SWILCN# Clear Cores	archive	
Command	Description	
show system cores	Displays the core filename.	
system cores	Configures the core filename.	
	archive None Any command mode network-admin network-operator vdc-admin vdc-operator Vdc-operator Release 4.0(1) Use the show system c This command does no This example shows how switch# clear cores This example shows how switch# clear cores Switch# clear cores	

clear flow exporter

To clear the statistics for a Flexible NetFlow flow exporter, use the clear flow exporter command.

clear flow exporter {name exporter-name | exporter-name }

	ame	Specifies the name of a flow exporter.
<u>ex</u>	xporter-name	Name of an existing flow exporter.
Defaults No	one	
Command Modes An	ny command mode	
SupportedUserRoles ne ne vd vd	twork-admin twork-operator lc-admin lc-operator	
Command History R	elease	Modification
4.	0(1)	This command was introduced.
Usage Guidelines Yo	ou must have alread n use the clear flo v	ly enabled traffic monitoring with Flexible NetFlow using an exporter before you w exporter command.
Tł	nis command does	not require a license.
Examples The sw	nis example clears tritch# clear flow	the statistics for the flow exporter named NFC-DC-PHOENIX: exporter name NFC-DC-PHOENIX
SW	itch#	
Related Commands Co	ommand	Description
	07	Clears the statistics for exporters
cl	ear flow exporter	clears the statistics for exporters.
cl fl	ear flow exporter ow exporter	Creates a flow exporter.

clear flow monitor

To clear a Flexible NetFlow flow monitor, flow monitor cache, or flow monitor statistics and to force the export of the data in the flow monitor cache, use the **clear flow monitor** command.

clear flow monitor {name monitor-name | monitor-name } [cache [force-export] | statistics]

Syntax Description	name	Specifies the name of a flow monitor.	
	monitor-name	Name of an existing flow monitor.	
	cache	(Optional) Clears the flow monitor cache information.	
	force-export	(Optional) Forces the export of the flow monitor cache statistics.	
	statistics	(Optional) Clears the flow monitor statistics.	
Defaults	None		
Command Modes	Any command mode	:	
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator		
Command History	Release	Modification	
	4.0(1)	This command was introduced.	
Usage Guidelines	You must enable Fle	xible NetFlow monitor before you can use the clear flow monitor command.	
	Use the clear flow monitor monitor-name cache command to remove all entries from the flow monitor cache. These entries will not be exported and the data gathered in the cache is lost.		
	The statistics for the cleared cache entries are maintained.		
	Use the clear flow monitor monitor-name force-export command to remove all entries from the flow monitor cache and exports them to all flow exporters that are assigned to the flow monitor. This process can result in an short term increase in the CPU utilization.		
$\underline{\wedge}$			
Caution	Be careful when you this command might	use the clear flow monitor monitor-name force-export command because using cause a short-term increase in the CPU utilization.	
	Use the clear flow n for this flow monitor	ionitor monitor-name statistics command to clear the statistics and cache entries	

The Current entries statistic is not cleared because this statistic indicates how many entries are in the cache. This command does not require a license. **Examples** This example shows how to clear the statistics and cache entries for the flow monitor named NFC-DC-PHOENIX: switch# clear flow monitor name NFC-DC-PHOENIX switch# This example shows how to clear the statistics and cache entries for the flow monitor named NFC-DC-PHOENIX and forces an export: switch# clear flow monitor NFC-DC-PHOENIX force-export switch# This example shows how to clear the cache for the flow monitor named NFC-DC-PHOENIX and forces an export: switch# clear flow monitor NFC-DC-PHOENIX cache force-export switch# This example shows how to clear the statistics for the flow monitor named NFC-DC-PHOENIX: switch# clear flow monitor NFC-DC-PHOENIX statistics switch# Related Commande Description Command

elated Commands	Command	Description
	clear flow monitor	Clears the flow monitor.
	flow monitor	Creates a flow monitor.
	show flow sw-monitor	Displays flow monitor status and statistics.

clear hardware flow ip

To clear the NetFlow hardware IP flow, use the clear hardware flow ip command.

clear hardware flow ip [{{**vdc** *vdc_id*} | {**monitor** *name*} | {**profile** *profile-id*} | {**vlan** *vlan-id*} | {**interface** *if-type if-number*}] [**instance** *inst*] [**force-export**] [**module** *num*]

Syntax Description	vdc <i>vdc_id</i>	Specifies the VDC. The range is from 1 to 16.			
	monitor name	<i>ame</i> Specifies the name of the NetFlow flow monitor. The monitor name can be any case-sensitive, alphanumeric string up to 64 characters.			
	profile profile-id	Specifies the name of the flow profile. The range is from 1 to 31.			
	vlan vlan-id	Specifies the VLAN. The range is from 1 to 4094.			
	interface	Specifies the interface.			
	if-type	Interface type. For more information, use the question mark (?) online help function.			
	if-number	Interface or subinterface number. For more information about the numbering syntax for your networking device, use the question mark (?) online help function.			
	instance inst	(Optional) Specifies the EARL instance. The EARL instance can be any alphanumeric string up to 32 characters.			
	force-export	(Optional) Forces data to be exported to the collector prior to the clear operation.			
	module num	(Optional) Specifies the module.			
Defaults	None				
Command Modes	Any command n	node			
SupportedUserRoles	network-admin network-operato vdc-admin vdc-operator	r			
Command History	Release	Modification			
	4.0(1)	This command was introduced.			
Usage Guidelines	This command d	loes not require a license.			
Examples	This example sh	ows how to clear the NetFlow hardware IP flow:			
	switch(config) switch(config)	# clear hardware flow ip module 8 ethernet 2/1 #			

Related Commands	Command	Description
	show hardware flow {ip ipv6}	Displays information about NetFlow hardware IP / IPV6 flows.

clear logging ip access-list cache

To clear all the entries from the Optimized ACL Logging (OAL) cache and send them to the syslog, use the **clear logging ip access-list cache** command.

clear logging ip access-list cache

Syntax Description	This command has no	o arguments or keywords.
Defaults	None	
Command Modes	Any command mode	
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator	
Command History	Release 4.0(1)	Modification This command was introduced.
Usage Guidelines	This command does n	not require a license.
Examples	This example shows h switch# clear loggi switch#	how to clear all the entries from the OAL cache and send them to the syslog:
Related Commands	Command	Description
	show logging ip access-list	Displays the logging status for IP access lists.

clear logging logfile

To clear messages from the logging file, use the **clear logging logfile** command.

clear logging logfile

Syntax Description	This command has no ar	guments or keywords.
Defaults	None	
Command Modes	Any command mode	
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator	
Command History	Release	Modification
	4.0(1)	This command was introduced.
Usage Guidelines	This command does not	require a license.
Examples	This example shows how	to clear messages from the logging file:
	switch# clear logging switch#	logfile
Related Commands	Command	Description
	show logging logfile	Displays the logs in the local log file.

clear logging nvram

To clear the NVRAM logs, use the **clear logging nvram** command.

clear logging nvram

Syntax Description	This command has no an	rguments or keywords.
Defaults	None	
Command Modes	Any command mode	
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator	
Command History	Release 4.0(1)	Modification This command was introduced.
Usage Guidelines	This command does not	require a license.
Examples	This example shows how switch# clear logging switch#	w to clear the NVRAM logs:
Related Commands	Command	Description

clear logging onboard

To clear the onboard failure logging (OBFL) entries in the persistent log, use the **clear logging onboard** command.

clear logging onboard [counter-stats] [environmental-history] [error-stats] [exception-log] [interrupt-stats] [module *num*] [obfl-log] [stack-trace]

Syntax Description	counter-stats	(Optional) Clears the OBFL counter statistics.	
	environmental-histor	y (Optional) Clears the OBFL environmental history.	
	error-stats	(Optional) Clears the OBFL error statistics.	
	exception-log	(Optional) Clears the OBFL exception log entries.	
	interrupt-stats	(Optional) Clears the OBFL interrupt statistics.	
	module num	(Optional) Clears the OBFL information for a specific module.	
	obfl-log	(Optional) Clears the OBFL (boot-uptime/device-version/obfl-history).	
	stack-trace	(Optional) Clears the OBFL stack trace entries.	
Defaults	None		
Command Modes	Any command mode		
SupportedUserRoles	network-admin		
	vdc-admin		
	vdc-operator		
Command History	Release	Nodification	
	4.0(1)	This command was introduced.	
	4.0(2) A	Added the counter-stats keyword.	
Usage Guidelines	This command does no	ot require a license.	
Evamplac	This example shows he	we to clear the OPEL environmental history entries:	
Examples	i his example shows now to clear the OBFL environmental history entries:		
	switch# clear logging onboard environmental-history switch#		
	This example shows how to clear the OBFL error statistics:		
	switch# clear logging onboard error-stats switch#		
	switch#		

This example shows how to clear the OBFL exception-log entries:

switch# clear logging onboard exception-log
switch#

This example shows how to clear the OBFL interrupt statistics:

```
switch# clear logging onboard interrupt-stats
switch#
```

This example shows how to clear the OBFL information for a specific module:

```
switch# clear logging onboard module 2
switch#
```

This example shows how to clear the OBFL (boot-uptime/device-version/obfl-history) entries:

```
switch# clear logging onboard obfl-log
switch#
```

This example shows how to clear the OBFL stack trace entries:

```
switch# clear logging onboard stack-trace
switch#
```

Related Commands C

Command	Description
hw-module logging onboard	Enables OBFL based on the error type.
show logging onboard	Displays onboard failure logs.

clear logging session

To clear the current logging session, use the **clear logging session** command.

clear logging session

Syntax Description	This command has no arguments or keywords.		
Defaults	None		
Command Modes	Any command mode		
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator		
Command History	Release 4.0(1)	Modification This command was introduced.	
Usage Guidelines	This command does not require a license.		
Examples	This example shows how to clear the current logging session: switch# clear logging session switch#		
Related Commands	Command	Description	

clear ntp session

To clear the Network Time Protocol (NTP) session, use the clear ntp session command.

clear ntp session

Syntax Description	This command has no arguments or keywords.		
Defaults	None		
Command Modes	Any command mode		
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator		
Command History	Release	Modification	
	4.2(1)	This command was introduced.	
Usage Guidelines	This command does not require a license.		
Examples	This example shows how to clear the NTP session:		
	<pre>switch(config)# clear ntp session</pre>		

clear ntp statistics

To clear the Network Time Protocol (NTP) statistics, use the clear ntp statistics command.

clear ntp statistics {all-peers | io | local | memory}

Syntax Description	all-peers	Clears statistics for all NTP peers.	
	io	Clears IO statistics.	
	local	Clears local statistics.	
	memory	Clears memory statistics.	
Defaults	None		
Command Modes	Any command mode		
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator		
Command History	Release	Modification	
-	4.0(1)	This command was introduced.	
Usage Guidelines	This command does not require a license.		
Examples	This example shows how to clear statistics for all NTP peers:		
	<pre>switch(config)# clear ntp statistics all-peers</pre>		
Related Commands	Command	Description	
	show ntp peers	Displays information about NTP peers.	
	. F. F	r , t	
clear nvram

To clear the NVRAM, use the **clear nvram** command.

clear nvram

Syntax Description	This command has no keywords or arguments.		
Defaults	None		
Command Modes	Any command mo	de	
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator		
Command History	Release	Modification	
	4.0(1)	This command was introduced.	
Usage Guidelines	This command doe	es not require a license.	
Examples	This example show switch(config)#	vs how to clear NVRAM: clear nvram	

clear platform flow ip

To clear NetFlow hardware IPv4 entries, use the clear platform flow ip command.

clear platform flow ip [type] [force-export] [module mod-num]

Syntax Description	type	(Optional) Type of entry to clear. See the "Usage Guidelines" section for valid values.	
	force-export	(Optional) Specifies a forced export of the cleared data to a collector.	
	module mod-num	<i>n</i> (Optional) Specifies a module. The ranges for the module number depends on the chassis used.	
Defaults	If you do not spec	cify the type, all types are cleared.	
Command Modes	Any command me	ode	
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator		
Command History	Release	Modification	
	4.0(1)	This command was introduced.	
Usage Guidelines	This command does not require a license.		
Examples	This example shows how to specify a forced export of the cleared data to a collector:		
	switch# clear platform flow ip forced-export switch#		
	This example shows how to clear the NetFlow statistics for a module:		
	switch# clear platform flow ip module 2 switch#		

Related

Command	Description
flow exporter	Creates a flow exporter.
clear flow monitor	Clears the flow monitor.
flow monitor	Creates a flow monitor.
show flow sw-monitor	Displays flow monitor status and statistics.
	Command flow exporter clear flow monitor flow monitor show flow sw-monitor

clear processes log archive

To delete a log file on a log flash, use the clear processes log archive command.

clear processes log archive [file file-number]

Syntax Description	file <i>file-number</i> (Optio	nal) Specifies to delete a log file on a log flash.
Defaults	None	
Command Modes	Any command mode	
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator	
Command History	Release 4.0(1)	Modification This command was introduced.
Usage Guidelines	This command does not	require a license.
Examples	This example shows how	to delete a log file on a log flash:
	<pre>switch(config)# clear switch(config)#</pre>	processes log archive
Related Commands	Command	Description
	show processes log	Displays the contents of the process log.

clear ptp counters

To clear the Precision Time Protocol (PTP) packet counters, use the clear ptp counters command.

clear ptp counters { all | interface ethernet slot / port }

all	Clears PTP packet counters for all PTP interfaces.	
interface ethernet slot / port	Clears PTP packet counters for an Ethernet interface. The slot number is from 1 to 255 and the port number is from 1 to 128.	
None		
EXEC mode		
network-admin network-operator vdc-admin vdc-operator		
Release	Modification	
7.3(0)DX(1)	This command was introduced.	
This command do	bes not require a license.	
This example sho	ows how to clear PTP counters for all PTP interfaces:	
<pre>switch(config)# clear ptp counters all switch(config)#</pre>		
Command	Description	
show ptp counter	Prs Displays PTP specific packet counters for all Ethernet interfaces or for a	
	all interface ethernet slot / port None EXEC mode network-admin network-operator vdc-admin vdc-operator Release 7.3(0)DX(1) This command definition switch(config)# switch(config)# show ntp counter	

clear rmon

To delete the Remote Network Monitoring (RMON) tables from a simple network management protocol (SNMP) notification, use the **clear rmon** command.

clear rmon {alarms | events | hcalarms | all-alarms}

Syntax Description	alarms	Clears all 32-bit alarms.
	events	Clears the RMON log and also clears the RMON event table.
	hcalarms	Clears all 64-bit RMON alarms.
	all-alarms	Clears all 32-bit and 64-bit RMON alarms.
Defaults	None	
Command Modes	Any command	mode
SupportedUserRoles	network-admin network-operat vdc-admin vdc-operator	or
Command History	Release	Modification
	4.1(2)	This command was introduced.
Usage Guidelines	This command does not require a license.	
Examples	This example s	hows how to delete RMON tables:
	switch(config switch(config)# clear rmon alarms)#
Related Commands	Command	Description
	clear snmp co	Deletes SNMP counters.

clear session state name

To clear the state information for a session, use the clear session state name command.

clear session state name name

Syntax Description	name	Name of the session. The name can be any case-sensitive, alphanumeric string up to 63 characters.
Defaults	None	
Command Modes	Any command mode	
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator	
Command History	Release	Modification
	4.0(1)	This command was introduced.
Usage Guidelines	This command does	not require a license.
Examples	This example shows switch# clear sess	how to clear the internal state for a configuration session:
Related Commands	Command	Description
	show configuration session	Displays information about the configuration sessions.

clear snmp counters

To delete Simple Network Management Protocol (SNMP) counters, use the **clear snmp counters** command.

clear snmp counters

Syntax Description	This command has no arguments or keywords.		
Defaults	None		
Command Modes	Any command mode		
SupportedUserRoles	network-admin vdc-admin		
Command History	Release Modification		
	4.1(2)This command was introduced.		
Usage Guidelines	This command does not require a license.		
Examples	This example shows how to delete SNMP counters:		
	<pre>switch(config)# clear snmp counters switch(config)#</pre>		
	To see if the counters have been reset, use the show command:		
	switch(config)# show snmp sys contact: sys location: anyplace, Anywhere		
	<pre>0 SNMP packets input 0 Bad SNMP versions 0 Unknown community name 0 Illegal operation for community name supplied 0 Encoding errors 0 Number of requested variables 0 Number of altered variables 0 Get-request PDUs 0 Get-next PDUs 0 Set-request PDUs 0 SNMP packets output 0 Too big errors 0 No such name errors</pre>		

0 Bad values errors

0 General errors

Related Commands

CommandDescriptionshow snmp sessionsDisplays information about SNMP sessions.

clear snmp hostconfig

To delete the Simple Network Management Protocol (SNMP) host configuration, use the **clear snmp hostconfig** command.

clear snmp hostconfig

Syntax Description	This command has no ar	guments or keywords.
Defaults	None	
Command Modes	Any command mode	
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator	
Command History	Release	Modification
	4.1(2)	This command was introduced.
Usage Guidelines	This command does not	require a license.
Examples	This example shows how	v to delete the SNMP host configuration:
	<pre>switch(config)# clear switch(config)#</pre>	snmp hostconfig
Related Commands	Command	Description
	show snmp sessions	Displays SNMP sessions.
	clear snmp counters	Deletes SNMP counters.
	and the second se	

clear system reset-reason

To clear the device reset-reason history, use the clear system reset-reason command.

clear system reset-reason

Syntax Description	This command has no a	arguments or keywords.
Defaults	None	
Command Modes	Any command mode	
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator	
Command History	Release 4.0(1)	Modification This command was introduced.
Usage Guidelines	This command does no	t require a license.
Examples	This example shows ho switch# clear system	ow to clear the device reset-reason history:
Related Commands	Command	Description Displays the device reset-reason history.

collect counter

To configure the number of bytes or packets in a flow as a nonkey field and collect the counter values (number of bytes or packets seen) for a Flexible NetFlow flow record, use the **collect counter** command. To disable the use of the number of bytes or packets in a flow (counters) as a nonkey field for a Flexible NetFlow flow record, use the **no** form of this command.

collect counter {bytes [long] | packets [long]}

no collect counter {bytes [long] | packets [long]}

Syntax Description	bytes	Configures the number of bytes seen in a flow as a nonkey field and collects the total number of bytes from the flow.	
	long	(Optional) Collects the total number of bytes from the flow using a 64-bit counter.	
	packets	Configures the number of bytes seen in a flow as a nonkey field and collects the total number of packets from the flow.	
Defaults	This command is n	ot enabled by default.	
Command Modes	Flow record config	uration	
SupportedUserRoles	network-admin vdc-admin		
Command History	Release	Modification	
	4.0(1)	This command was introduced.	
Usage Guidelines	The Flexible NetFl monitor record and values in nonkey fie A change in the val fields are taken fro	ow commands that start with collect are used to configure nonkey fields for the flow to enable capturing the values in the fields for the flow created with the record. The elds are added to flows to provide additional information about the traffic in the flows. ue of a nonkey field does not create a new flow. In most cases, the values for nonkey m only the first packet in the flow.	
	Use the collect counter packets command to configure a 32-bit counter that is incremented for each packet seen in the flow. For extremely long flow it is possible for this counter to wrap when it reaches the limit of 4 billion or more packets. When the flow monitor detects a scenario that could cause a wrap, the flow monitor with a normal cache type exports the flow and starts a new flow.		
	Use the collect cou	inter packets long command to configure a 64-bit counter that is incremented for	
	each packet seen ir	the flow. It is unlikely that a 64-bit counter will ever wrap.	

Examples

This example shows how to enable collecting the total number of bytes from the flows as a nonkey field:

switch(config)# flow record FLOW-RECORD-1
switch(config-flow-record)# collect counter bytes

This example shows how to enable collecting the total number of bytes from the flows as a nonkey field using a 64 bit counter:

```
switch(config)# flow record FLOW-RECORD-1
switch(config-flow-record)# collect counter bytes long
```

This example shows how to enable collecting the total number of packets from the flows as a nonkey field:

```
switch(config)# flow record FLOW-RECORD-1
switch(config-flow-record)# collect counter packets
```

This example shows how to enable collecting the total number of packets from the flows as a nonkey field using a 64-bit counter:

```
switch(config)# flow record FLOW-RECORD-1
switch(config-flow-record)# collect counter packets long
```

Related Commands	Command	Description
	collect counter	Configures the counters as a nonkey field and collects the counter values.
	collect flow	Configures flow identifying fields as nonkey fields and collects their values.
	collect interface	Configures the input and/or output interface as a nonkey field and collects the values.
	collect ipv4	Configures an IPv4 field as a nonkey field and collects the value in it.
	collect routing	Configures a routing attribute as a nonkey field and collects the value of the field.
	collect timestamp	Configures the time stamp fields as nonkey fields and collects the values.
	collect transport	Configures a transport layer field as a nonkey field and collects the values.
	debug flow record	Enables debugging output for flow records.
	flow record	Creates a flow record.
	match flow	Configures one or more of the flow fields as key fields.
	match interface	Configures the direction that traffic flows in respect to an interface (interface field) as a key field.
	match ipv4	Configures one or more of the IPv4 fields as a key field.
	match routing	Configures one or more of the routing fields as a key field.
	match timestamp	Configures a time stamp field as a key field.
	match transport	Configures one or more of the transport fields as key fields.
	show flow record	Displays the flow record status and statistics.

collect flow

To configure the flow direction or the flow sampler ID number as a nonkey field and collect their values for a Flexible NetFlow flow record, use the **collect flow** command. To disable the use of the flow direction or the flow sampler ID number as a nonkey field for a Flexible NetFlow flow record, use the **no** form of this command.

collect flow {direction | sampler}

no collect flow {direction | sampler}

Syntax Description	direction	Configures the flow direction as a nonkey field and collects the direction that the flow was monitored in.	
	sampler	Configures the flow sampler ID as a nonkey field and collects the ID of the sampler that is assigned to the flow monitor.	
Defaults	This command is	not enabled by default.	
Command Modes	Flow record conf	iguration	
SupportedUserRoles	network-admin vdc-admin		
Command History	Release	Modification	
	4.0(1)	This command was introduced.	
Usage Guidelines	The Flexible Netl monitor record ar values in nonkey A change in the v fields are taken fi	Flow commands that start with collect are used to configure nonkey fields for the flow id to enable capturing the values in the fields for the flow created with the record. The fields are added to flows to provide additional information about the traffic in the flows. alue of a nonkey field does not create a new flow. In most cases, the values for nonkey rom only the first packet in the flow.	
	Use the collect flow direction command to indicate the direction of the flow. Use this command when you configure a single flow monitor for input and output flows and to find and eliminate flows that are being monitored twice: once on input and once on output.		
	Use the collect flow sampler command to collect the ID of the flow sampler that is used to monitor the flow. Use this command when more than one flow sampler is being used with different sampling rates. The option sampler-table command exports option records with mappings of the flow sampler ID to the sampling rate so that the collector can calculate the scaled counters for each flow.		
	This command does not require a license.		

Examples This example shows how to configure the direction of the flow nonkey that was monitored as a nonkey field:

switch(config)# flow record FLOW-RECORD-1
switch(config-flow-record)# collect flow direction

This example shows how to configure an ID of the flow sampler that is assigned to the flow as a nonkey field and collects the ID of the flow sampler:

switch(config)# flow record FLOW-RECORD-1
switch(config-flow-record)# collect flow sampler

Related Commands	Command	Description
	collect counter	Configures the counters as a nonkey field and collects the counter values.
	collect flow	Configures flow identifying fields as nonkey fields and collects their values.
	collect interface	Configures the input and/or output interface as a nonkey field and collects the values.
	collect ipv4	Configures an IPv4 field as a nonkey field and collects the value in it.
	collect routing	Configures a routing attribute as a nonkey field and collects the value of the field.
	collect timestamp	Configures the times tamp fields as nonkey fields and collects the values.
	collect transport	Configures a transport layer field as a nonkey field and collects the values.
	flow record	Creates a flow record.
	match flow	Configures one or more of the flow fields as key fields.
	match interface	Configures the direction that traffic flows in respect to an interface (interface field) as a key field.
	match ipv4	Configures one or more of the IPv4 fields as a key field.
	match routing	Configures one or more of the routing fields as a key field.
	match timestamp	Configures a time stamp field as a key field.
	match transport	Configures one or more of the transport fields as key fields.
	show flow record	Displays the flow record status and statistics.

collect interface

To configure the input or output interface as a nonkey field and collect the values for a Flexible NetFlow flow record, use the **collect interface** command. To disable the use of the input or output interface as a nonkey field for a Flexible NetFlow flow record, use the **no** form of this command.

collect interface {input | output}

no collect interface {input | output}

Syntax Description	input	Configures the input interface as a nonkey field and collects the input interface from the flows.
	output	Configures the output interface as a nonkey field and collects the output interface from the flows.
Defaults	This command is n	ot enabled by default.
Command Modes	Flow record config	uration
SupportedUserRoles	network-admin vdc-admin	
Command History	Release	Modification
	4.0(1)	This command was introduced.
Usage Guidelines	The Flexible NetFl monitor record and values in nonkey fie A change in the val fields are taken fro	ow commands that start with collect are used to configure nonkey fields for the flow to enable capturing the values in the fields for the flow created with the record. The elds are added to flows to provide additional information about the traffic in the flows. ue of a nonkey field does not create a new flow. In most cases, the values for nonkey m only the first packet in the flow.
	This command doe	s not require a license.
Examples	This example show value:	s how to configure the input interface as a nonkey field and collect the input interface
	<pre>switch(config)# f switch(config-floc)</pre>	Elow record FLOW-RECORD-1 ow-record)# collect interface input
	This example show interface value:	s how to configure the input interface as a nonkey field and collect the output
	switch(config)# 1 switch(config-flo	Elow record FLOW-RECORD-1 ow-record)# collect interface output

Related Commands Command Description collect counter Configures the counters as a nonkey field and collects the counter values. collect flow Configures flow identifying fields as nonkey fields and collects their values. collect interface Configures the input or output interface as a nonkey field and collects the values. collect ipv4 Configures an IPv4 field as a nonkey field and collects the value in it. collect routing Configures a routing attribute as a nonkey field and collects the value of the field. collect timestamp Configures the time stamp fields as a nonkey field and collects the values. collect transport Configures a transport layer field as a nonkey field and collects the values. flow record Creates a flow record. match flow Configures one or more of the flow fields as key fields. match interface Configures the direction that traffic flows in respect to an interface (interface field) as a key field. match ipv4 Configures one or more of the IPv4 fields as a key field. match routing Configures one or more of the routing fields as a key field. match timestamp Configures a time stamp field as a key field. match transport Configures one or more of the transport fields as key fields. show flow record Displays the flow record status and statistics.

collect routing

To configure a routing attribute as a nonkey field and collect the value of the field for a Flexible NetFlow flow record, use the **collect routing** command. To disable the use of a routing attribute as a nonkey field for a Flexible NetFlow flow record, use the **no** form of this command.

collect routing {{destination | source} as [peer] | traffic-index | forwarding-status | next-hop
 address ipv4 [bgp]}

no collect routing {{destination | source} as [peer] | traffic-index | forwarding-status | next-hop address ipv4 [bgp]}

Syntax Description	destination	Configures one or more of the destination routing attributes fields as a nonkey field and collects the values from the flows.
	source	Configures one or more of the source routing attributes fields as a nonkey field and collects the values from the flows.
	as	Configures the destination AS field as a nonkey field and collects the value in the AS field from the flows.
	peer	(Optional) Configures the destination AS number of the peer network as a nonkey field and collects the value of the AS number of the peer network from the flows.
	traffic-index	Configures the Border Gateway Protocol (BGP) source or destination traffic index as a nonkey field and collects the value of the BGP destination traffic index from the flows.
	forwarding-status	Collects the forwarding status of the packet and triggers the collection of flows denied by Access Control List (ACL) entries.
	next-hop address ipv4	Configures the next-hop value as a nonkey field and collects information regarding the next-hop from the flows.
Defaults	bgp	(Optional) Configures the IP address of the next hop BGP network as a nonkey field and collects the value of the IP address of the BGP next-hop network from the flows.
	This command is not enabled by default.	
Command Modes	Flow record configurati	on
SupportedUserRoles	network-admin vdc-admin	
Command History	Release N	lodification
	4.0(1) T	his command was introduced.

Usage Guidelines

The Flexible NetFlow commands that start with **collect** are used to configure nonkey fields for the flow monitor record and to captures the values in the fields for the flow created with the record. The values in nonkey fields are added to flows to provide additional information about the traffic in the flows. A change in the value of a nonkey field does not create a new flow. In most cases, the values for nonkey fields are taken from only the first packet in the flow.

Use the **collect routing source as** [*peer*] command to collect the 16-bit AS number based on a lookup of the router's routing table using the source IP address. The optional **peer** keyword provides the expected next network, not the originating network.



The the 16-bit AS number is based on how packets are routed back from this router and the value might

not be accurate for asymmetrical routes.

Use the **collect routing destination as** [*peer*] command to collect the 16-bit AS number based on a lookup of the router's routing table using the destination IP address. The optional **peer** keyword provides the expected next network, not the destination network.

Use the **collect routing source traffic-index** command to collect the traffic index field based on the source AS for this flow. The traffic-index field is a value that is propagated through BGP.

Use the **collect routing forwarding-status** command to collect a field to indicate if the packets were successfully forwarded. The field is in two parts and may be up to 4 bytes in length. At this time, only the status field is used:

This command does not require a license.

Examples

This example shows how to configure the 16-bit AS number based on a lookup of the router's routing table using the source IP address as a nonkey field and collects the 16-bit AS number value:

```
switch(config)# flow record FLOW-RECORD-1
switch(config-flow-record)# collect routing source as
```

This example shows how to configure the 16-bit AS number based on a lookup of the router's routing table using the destination IP address as a nonkey field and collects the 16-bit AS number value:

```
switch(config)# flow record FLOW-RECORD-1
switch(config-flow-record)# collect routing destination as
```

This example shows how to configure the value in the traffic index field based on the source AS for a flow as a nonkey field and collects the value in the traffic index field value:

```
switch(config)# flow record FLOW-RECORD-1
switch(config-flow-record)# collect routing source traffic-index
```

This example shows how to configure the forwarding status as a nonkey field and collects the forwarding status value:

switch(config)# flow record FLOW-RECORD-1
switch(config-flow-record)# collect routing forwarding-status

Related Commands

Command	Description
collect counter	Configures the counters as a nonkey field and collects the counter values.
collect flow	Configures flow identifying fields as nonkey fields and collects their values.
collect interface	Configures the input or output interface as a nonkey field and collects the values.
collect ipv4	Configures an IPv4 field as a nonkey field and collects the value in it.
collect routing	Configures a routing attribute as a nonkey field and collects the value of the field.
collect timestamp	Configures the times tamp fields as a nonkey field and collects the values.
collect transport	Configures a transport layer field as a nonkey field and collects the values.
flow record	Creates a flow record.
match flow	Configures one or more of the flow fields as key fields.
match interface	Configures the direction that traffic flows in respect to an interface (interface field) as a key field.
match ipv4	Configures one or more of the IPv4 fields as key fields.
match routing	Configures one or more of the routing fields as key fields.
match timestamp	Configures a time stamp field as a key field.
match transport	Configures one or more of the transport fields as key fields.
show flow record	Displays the flow record status and statistics.

collect timestamp sys-uptime

To configure the TIMESTAMP SYS-UPTIME field as a nonkey field and collect the values in them for a Flexible NetFlow flow record, use the **collect timestamp sys-uptime** command. To disable the use of the TIMESTAMP SYS-UPTIME field as a nonkey for a Flexible NetFlow flow record, use the **no** form of this command.

collect timestamp sys-uptime {first | last}

no collect timestamp sys-uptime {first | last}

Syntax Description	first	Configures the sys-uptime for the time that the first packet was seen from the flows as a nonkey field and collects time stamps based on the sys-uptime for the time that the first packet was seen from the flows.
	last	Configures the sys-uptime for the time that the last packet was seen from the flows as a nonkey field and collects time stamps based on the sys-uptime for the time that the most recent packet was seen from the flows.
Defaults	This command is n	ot enabled by default.
Command Modes	Flow record config	uration
SupportedUserRoles	network-admin vdc-admin	
Command History	Release	Modification
	4.0(1)	This command was introduced.
Usage Guidelines	The Flexible NetFlow commands that start with collect are used to configure nonkey fields for the flow monitor record and to enable capturing the values in the fields for the flow created with the record. The values in nonkey fields are added to flows to provide additional information about the traffic in the flows. A change in the value of a nonkey field does not create a new flow. In most cases, the values for nonkey fields are taken from only the first packet in the flow.	
	This command doe	s not require a license.
Examples	This example show packet was seen fro packet was seen fro	as how to configure timestamps based on the sys-uptime for the time that the first om the flows as a nonkey field and collects the sys-uptime for the time that the first om the flows:
	<pre>switch(config)# 1 switch(config-floc)</pre>	<pre>idow record FLOW-RECORD-1 w-record)# collect timestamp sys-uptime first</pre>

This example shows how to configure timestamps based on the sys-uptime for the time that the most recent packet was seen from the flows as a nonkey field and collects the sys-uptime for the time that the most recent packet was seen from the flows:

switch(config)# flow record FLOW-RECORD-1
switch(config-flow-record)# collect timestamp sys-uptime last

Related Commands	Command	Description
	collect counter	Configures the counters as a nonkey field and collects the counter values.
	collect flow	Configures flow identifying fields as nonkey fields and collects their values.
	collect interface	Configures the input or output interface as a nonkey field and collects the values.
	collect ipv4	Configures an IPv4 field as a nonkey field and collects the value in it.
	collect routing	Configures a routing attribute as a nonkey field and collects the value of the field.
	collect timestamp	Configures the time stamp fields as a nonkey field and collects the values.
	collect transport	Configures a transport layer field as a nonkey field and collects the values.
	flow record	Creates a flow record.
	match flow	Configures one or more of the flow fields as key fields.
	match interface	Configures the direction that traffic flows in respect to an interface (interface field) as a key field.
	match ipv4	Configures one or more of the IPv4 fields as key fields.
	match routing	Configures one or more of the routing fields as key fields.
	match timestamp	Configures a time stamp field as a key field.
	match transport	Configures one or more of the transport fields as key fields.
	show flow record	Displays the flow record status and statistics.

Cisco Nexus 7000 Series NX-OS System Management Command Reference

collect transport tcp flags

To configure a Transmission Control Protocol (TCP) field as a nonkey field and collect the value in it for a Flexible NetFlow flow record, use the **collect transport tcp flags** command. To disable the use of a TCP field as a nonkey field for a Flexible NetFlow flow record, use the **no** form of this command.

collect transport tcp flags

no collect transport tcp flags

Syntax Description	This command has no arguments or keywords		
Defaults	This command is not enabled by default.		
Command Modes	Flow record configuration		
SupportedUserRoles	network-admin vdc-admin		
Command History	Release	Modification	
	4.0(1)	This command was introduced.	
Usage GuidelinesThe Flexible NetFlow commands that start with collect are used to configure nonker monitor record and to enable capturing the values in the fields for the flow created values in nonkey fields are added to flows to provide additional information about the A change in the value of a nonkey field does not create a new flow. In most cases, the 		w commands that start with collect are used to configure nonkey fields for the flow o enable capturing the values in the fields for the flow created with the record. The ds are added to flows to provide additional information about the traffic in the flows. e of a nonkey field does not create a new flow. In most cases, the values for nonkey only the first packet in the flow. not require a license.	
Examples	This example shows how to configure the TCP flags as a nonkey field: switch(config)# flow record FLOW-RECORD-1 switch(config-flow-record)# collect transport tcp flags		
Related Commands	Command	Description	
	collect counter	Configures the counters as a nonkey field and collects the counter values.	
	collect flow	Configures flow identifying fields as nonkey fields and collects their values.	
	collect interface	Configures the input or output interface as a nonkey field and collects the values.	

Command	Description	
collect ipv4	Configures an IPv4 field as a nonkey field and collects the value in it.	
collect routing	Configures a routing attribute as a nonkey field and collects the value of the field.	
collect timestamp	Configures the timestamp fields as nonkey fields and collects the values.	
collect transport	Configures a transport layer field as a nonkey field and collects the values.	
flow record	Creates a flow record.	
match flow	Configures one or more of the flow fields as key fields.	
match interface	Configures the direction that traffic flows in respect to an interface (interface field) as a key field.	
match ipv4	Configures one or more of the IPv4 fields as key fields.	
match routing	Configures one or more of the routing fields as key fields.	
match timestamp	Configures a time stamp field as a key field.	
match transport	Configures one or more of the transport fields as key fields.	
show flow record	Displays the flow record status and statistics.	

commit (Call home)

To distribute a Cisco Fabric Services (CFS) configuration, use the commit command.

commit

Syntax Description	This command has no arguments or keywords		
Defaults	None		
Command Modes	Call home configuration		
SupportedUserRoles	network-admin vdc-admin		
Command History	Release	Modification	
	4.1(2)	This command was introduced.	
Usage Guidelines	The commit command results in the distribution of the CFS configuration to the running configuration of all CFS-enabled devices in the fabric.		
	You can only use the commit command on the specific device where the fabric lock was acquired.		
	Configuration changes that have not been committed yet (still saved as a working copy) are not in the running configuration and do not display in the output of show commands.		
	An empty commit is allowed to distribute a current configuration if you want to make sure that all devices are synchronized.		
	This command doe	s not require a license.	
Examples	This example show	s how to commit a CFS configuration and verify that the commit was successful:	
-	switch(config-cal switch(config-cal Last Action Time Last Action Last Action Resul Last Action Failu	<pre>lhome)# commit lhome)# show callhome session status Stamp : Tue Dec 23 11:15:02 2008</pre>	

Related Commands

ands	Command	Description
	abort	Deletes the CFS session.
	show cfs application	Displays the applications that are currently CFS-enabled.
	<pre>show application_name session status</pre>	Displays information about the CFS configuration session status for an application.

commit (Session Manager)

To validate and apply the commands in the Session Manager configuration session, use the **commit** command.

commit [verbose]

Syntax Description	verbose (Optional) Displays a detailed version of the results of the commit command.
Defaults	None	
Command Modes	Session configuration	
SupportedUserRoles	network-admin vdc-admin	
Command History	Release	Modification
	4.0(1)	This command was introduced.
Usage Guidelines	The commit command the configuration is app This command does no	results in a validation of the entire Session Manager configuration, and, if valid, plied to the device, of require a license.
Examples	This example shows how to commit a Session Manager configuration: switch# config session ACL_tcp_in Config Session started, Session ID is 1 Enter configuration commands, one per line. End with CNTL/Z. switch(config-s)# verify Verification Successful switch(config-s)# commit Commit Successful switch#	
Related Commands	Command	Description
	abort	Deletes the session and exists session configuration mode.
	exit	Exits session configuration mode without committing the commands.
	show configuration session	Displays information about the Session Manager configuration session.

configure maintenance profile

To enter a maintenance profile configuration session to create a custom maintenance mode profile or a custom normal mode profile, use the **configure maintenance profile** command. To delete the existing maintenance mode profile or normal mode profile, use the **no** form of this command. Starting with Cisco NX-OS Release 7.3(0)D1(1), we recommend not using the **configure profile** [maintenance-mode | normal-mode] type admin command and we strongly recommend using the **configure maintenance profile** [maintenance-mode | normal-mode] command.

configure maintenance profile [maintenance-mode | normal-mode]

no configure maintenance profile [maintenance-mode | normal-mode]

Syntax Description	maintenance-mod e	Enters the maintenance profile configuration session for a maintenance mode profile.	
	normal-mode	Enters the maintenance profile configuration session for a normal mode profile.	
Defaults	None		
Command Modes	Privileged EXEC (#)	
	Global configuration	n mode (config)	
SupportedUserRoles	network-admin vdc-admin		
	network-operator		
	vdc-operator		
Command History	Release	Modification	
-	7.3(0)D1(1)	This command was introduced.	
Usage Guidelines			
	This command does	not require a license.	
Examples	This example shows how to enter a maintenance profile configuration session for a maintenance mode profile:		
	switch# configure Please configure ' custom profile alw Enter configuratic switch(config-mm-p	maintenance profile maintenance-mode system mode maintenance always-use-custom-profile' if you want to use ways for maintenance mode. on commands, one per line. End with CNTL/Z. profile)#	

This example shows how to enter a maintenance profile configuration session for a normal mode profile:

switch# configure maintenance profile normal-mode
Please configure 'system mode maintenance always-use-custom-profile' if you want to use
custom profile always for maintenance mode.
Enter configuration commands, one per line. End with CNTL/Z.
switch(config-mm-profile)#

This example shows how to delete a maintenance profile:

```
switch# no configure maintenance profile maintenance-mode
Maintenance mode profile maintenance-mode successfully deleted
Enter configuration commands, one per line. End with CNTL/Z.
Exit maintenance profile mode.
```

Related Commands	Command	Description
	show run mmode	Displays the currently running maintenance profile configuration on
		a switch.
	show system mode	Displays the current system mode and the current state of the maintenance mode timer when the switch is in maintenance mode.
	system mode maintenance	Applies the existing custom maintenance-mode profile and prevents creation of auto-generated maintenance-mode profile.
	always-use-custom-pr ofile	
	system mode maintenance	Boots the switch into maintenance-mode automatically in the event of a specified system crash.
	on-reload reset-reason	
	system mode maintenance shutdown	(by using the shutdown command and not the default isolate command).
	system mode maintenance timeout	Configures the maintenance window timer to keep the switch in maintenance mode for a specified number of minutes.

configure session

To create or modify an access control list (ACL) configuration session with the Session Manager feature, use the **configure session** command.

configure session *name*

	show configuration session	Displays information about the Session Manager configuration sessions.
Related Commands	Command	Description
	<pre>switch# configure switch(config-s)#</pre>	session myACLs
Examples	This example shows how to create an ACL configuration session:	
-	Session Manager sup	pports only the ACL feature.
Usage Guidelines	This command does	not require a license.
	4.0(1)	This command was introduced.
Command History	Release	Modification
	network-operator vdc-admin vdc-operator	
SupportedUserRoles	network-admin	
Command Modes	Any command mode	
Defaults	None	
Syntax Description	name	Name of the session. The name can be any case-sensitive, alphanumeric string up to 63 characters.

configure profile maintenance-mode type admin

To enter the configuration session for the maintenance mode profile file, use the **configure profile maintenance-mode type admin** command.

configure profile maintenance-mode type admin

Syntax Description	This command ha	as no arguments or keywords.	
Defaults	None.		
Command Modes	Profile configurat	tion.	
Command History	Release	Modification	
	7.2.0	This command was introduced.	
Examples	This example shows how to create a maintenance mode profile file: switch# configure terminal switch(config)# configure profile maintenance-mode type admin switch(config-profile)# router ospf 100 switch(config-profile-router)# max-metric router-1sa switch(config-profile-router)# exit switch(config-profile-router)# max-metric router-1sa switch(config-profile-router)# max-metric router-1sa switch(config-profile-router)# max-metric router-1sa switch(config-profile-router)# max-metric router-1sa switch(config-profile-router)# max-metric router-1sa switch(config-profile-router)# set-overload-bit always switch(config-profile-router)# set-overload-bit always switch(config-profile)# router bgp 103 switch(config-profile)# router bgp 103 switch(config-profile-router)# max-metric router-1sa switch(config-profile)# vpc domain 20 switch(config-profile)# vpc domain 20 switch(config-profile-router)# max-metric router-1sa		
	switch(config-p Exit configure	rofile)# end profile mode.	

switch#

configure profile normal-mode type admin

To enter the configuration session for the normal mode profile file, use the **configure profile normal-mode type admin** command.

configure profile normal-mode type admin

Syntax Description	This command has no arguments or keywords.		
Defaults	None.		
Command Modes	Profile configuration.		
Command History	Release Modification		
	This command was introduced.		
Usage Guidelines			
Examples	This example shows how to create a normal mode profile file: <pre>switch# configure terminal switch(config)# configure profile normal-mode type admin switch(config-profile)# router ospf 100 switch(config-profile-router)# no shutdown switch(config-profile-router)# exit switch(config-profile-router)# no shutdown switch(config-profile-router)# no shutdown switch(config-profile-router)# exit switch(config-profile-router)# no shutdown switch(config-profile)# vpc domain 20 switch(config-profile-router)# exit switch(config-profile)# osystem interface shutdown switch(config-profile)# no system interface shutdown switch(config-profile)# no system interface shutdown switch(config-profile)# no system interface shutdown switch(config-profile)# node.</pre>		

switch#

contract-id

To specify a service agreement contract ID in Call home, use the **contract-id** command. To remove it, use the **no** form of this command.

contract-id contract_id_number

no contract-id

Syntax Description	contract_id_ number	Contract number for this device from the service agreement. The contract number can be up to 255 alphanumeric characters in free format.
Defaults	None	
Command Modes	Call home conf	guration
SupportedUserRoles	network-admin vdc-admin	
Command History	Release	Modification
	4.0(1)	This command was introduced.
Usage Guidelines	This command	does not require a license.
Examples	This example shows how to configure a service agreement contract ID in Call home: switch(config-callhome)# contract-id Contract5678	
Related Commands	Command	Description
	callhome	Places you into Call home configuration mode.
	email-contact	Specifies the e-mail address of the person responsible for the device.
	phone-contact	Specifies the phone number of the person responsible for the device.
	streetaddress	Specifies the street address of the person responsible for the device.
	customer-id	Specifies the service agreement customer number for this device.
	site-id	Specifies the site ID number for this device.
	switch-priority	Specifies the priority number for this device.
	show callhome	Displays the Call home configuration.

counter

To configure a Simple Network Management Protocol (SNMP) port-monitor counter, use the **counter** command. To remove the port-monitor counter configuration, use the **no** form of this command.

- counter {invalid-crc [poll-interval poll-interval {absolute rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id] | delta rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id]]] invalid-words [poll-interval poll-interval {absolute rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id] | delta rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id]}] link-loss [poll-interval poll-interval {absolute rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id] | delta rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id]]] protocol-error [poll-interval poll-interval {absolute rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id] | delta rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id]]] **rx-performance** [poll-interval poll-interval {absolute rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id] | delta rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id]]] signal-loss [poll-interval poll-interval {absolute rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id] | delta rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id]]] sync-loss [poll-interval poll-interval {absolute rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id] | delta rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id]]] **tx-performance** [poll-interval poll-interval {absolute rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id] | delta rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id]}]}
- **no counter** {**invalid-crc** [**poll-interval** *poll-interval* {**absolute rising-threshold** *rising-threshold* event event-id [falling-threshold falling-threshold event event-id] | delta rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id]}] invalid-words [poll-interval poll-interval {absolute rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id] | delta rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id]]] link-loss [poll-interval poll-interval {absolute rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id] | delta rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id]]] protocol-error [poll-interval poll-interval {absolute rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id] | delta rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id]]] **rx-performance** [poll-interval poll-interval {absolute rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id] | delta rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id]}] signal-loss [poll-interval poll-interval {absolute rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id] | delta rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id]]] sync-loss [poll-interval poll-interval {absolute rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id] | delta rising-threshold rising-threshold event event-id [falling-threshold falling-threshold event event-id]}]

tx-performance [**poll-interval** *poll-interval* {**absolute rising-threshold** *rising-threshold* **event** *event-id* [**falling-threshold** *falling-threshold* **event** *event-id*] | **delta rising-threshold** *rising-threshold* **event** *event-id* [**falling-threshold** *falling-threshold falling-threshold event event-id*]]}]

Syntax Description	invalid-crc	Configures the invalid-crc counter.
	poll-interval	(Optional) Poll interval for counter in seconds. The range is from 0 to 2147483647.
	absolute	Specifies the absolute type threshold.
	rising-threshold	Configures the rising-threshold value.
	rising-threshold	Rising-threshold limit. The range is from 0 to18446744073709551615.
	event	Configures the rising-threshold event.
	event-id	Event ID from the event configuration. The range is from 1 to 65535.
	falling-threshold	(Optional) Configures the falling-threshold value.
	falling-threshold	(Optional) Falling-threshold limit. The range is from –2147483648 to 2147483647.
	delta	(Optional) Specifies the delta type threshold.
	invalid-words	Configures the invalid-words counter.
	link-loss	Configures the link-loss counter.
	protocol-error	Configures the protocol-error counter.
	rx-performance	Configures the ingress (rx) performance counter.
	signal-loss	Configures the signal-loss counter.
	sync-loss	Configures the sync-loss counter.
	tx-performance	Configures the egress (tx) performance counter.
Defaults	None	
Command Modes	Port-monitor config	guration (config-port-monitor)
SupportedUserRoles	network-admin vdc-admin	
Command History	Release	Modification
	4.1(2)	This command was introduced.
Usage Guidelines	This command does	s not require a license.
Examples	This example show switch(config) po switch(config-por rising-threshold	s how to configure an SNMP counter: rt-monitor name PM1 t-monitor)# counter invalid-crc poll-interval 30 absolute 10000000 event 100

switch(config-port-monitor)#

This example shows how to remove an SNMP counter configuration:

switch(config)# no counter invalid-crc poll-interval 30 absolute rising-threshold 10000000
event 100
switch(config-port-monitor)#

Related Commands	Command	Description
	monitor counter	Configures a monitor counter.
customer-id

To specify a service agreement customer ID in Call home, use the **customer-id** command. To remove it, use the **no** form of this command.

customer-id contract_id_number

no customer-id

Syntax Description	contract_id_ number	Customer number for this device from the service agreement. The customer number can be up to 255 alphanumeric characters in free format.	
Defaults	None	Jone	
Command Modes	Call home configuration		
SupportedUserRoles	network-admin vdc-admin		
Command History	Release	Modification	
	4.0(1)	This command was introduced.	
Usage Guidelines	Guidelines This command does not require a license.		
Examples	This example shows how to configure a service agreement customer ID in Call home: switch(config-callhome)# customer-id Customer123456		
Related Commands	Command	Description	
	callhome	Places you into Call home configuration mode.	
	email-contact	Specifies the e-mail address of the person responsible for the device.	
	phone-contact	Specifies the phone number of the person responsible for the device.	
	streetaddress	Specifies the street address of the person responsible for the device.	
	contract-id	Specifies the service agreement contract number for this device.	
	site-id	Specifies the site ID number for this device.	
	switch-priorit	y Specifies the priority number for this device.	
	show callhome	e Displays the Call home configuration.	

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