C H A P T E R 2

Cisco Virtual Security Gateway Commands

This chapter provides information about Virtual Security Gateway commands.

attach

To access a module or the console of a module, use the **attach** command.

attach {**console module** *module-number* | **module** *module-number*}

Syntax Description

console module	Specifies the console.
module-number	Module number. The range of valid values is from 1 to 66.
module	Specifies a module.

Defaults None

Command Modes EXEC

Global configuration (config)

SupportedUserRoles network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples This example shows how to attach to a module:

```
VSG# attach module 1
Attaching to module 1 ...
To exit type 'exit', to abort type '$.'
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vsg#
```

Send document comments to vsg-docfeedback@cisco.com.

Related Commands	Command	Description
	show terminal	Displays information about the terminal.

banner motd

To configure a message of the day (MOTD) banner, use the **banner motd** command.

banner motd [*delimiting-character message delimiting-character*]

no banner motd [*delimiting-character message delimiting-character*]

Syntax Description		
delimiting-character	(Optional) Character used to signal the beginning and end of the message text. For example, in the following message, the delimiting character is #: `#Testing the MOTD#`	
message	(Optional) Banner message. Up to 40 lines with a maximum of 80 characters in each line.	

Defaults   "User Access Verification" is the default message of the day.

Command Modes   Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   The MOTD banner is displayed on the terminal before the login prompt whenever you log in.

The message is restricted to 40 lines and 80 characters per line.

To create a multiple-line MOTD banner, press Enter before typing the delimiting character to start a new line. You can enter up to 40 lines of text.

Follow these guidelines when choosing your delimiting character:

- Do not use the *delimiting-character* in the *message* string.
- Do not use **"** and **%** as delimiters.

Examples   This example shows how to configure and then display a banner message with the text, "Testing the MOTD:"

```
vsg# configure
vsg(config)# banner motd #Testing the MOTD#
vsg(config)# show banner motd
Testing the MOTD
```

This example shows how to configure and then display a multiple-line MOTD banner:

```
vsg(config)# banner motd #Welcome to authorized users.
> Unauthorized access prohibited.#
vsg(config)# show banner motd
Welcome to authorized users.
Unauthorized access prohibited.
```

This example shows how to revert to the default MOTD banner:

```
vsg# configure
vsg(config)# no banner motd
vsg(config)# show banner motd
User Access Verification
```

Related Commands	Command	Description
	show banner motd	Displays the MOTD banner.

boot

To configure boot images, use the **boot** command. To revert to default settings, use the **no** form of the command.

boot {**asm-sfn** | **auto-copy** | **kickstart bootflash** | **ssi** | **system bootflash**}

no boot {**asm-sfn** | **auto-copy** | **kickstart bootflash** | **ssi** | **system bootflash**}

Syntax Description		
	asm-sfn	Specifies a boot variable.
	auto-copy	Enables or disables automatic copying of boot images to the standby VSG.
	kickstart bootflash	Specifies the boot variable URI for the kickstart image.
	ssi	Specifies a boot variable.
	system bootflash	Specifies the boot variable URI for the system image.

Defaults   None

Command Modes   Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to configure a boot variable:

```
vsg# configure
vsg(config)# boot asm-sfn bootflash module 6
```

Related Commands	Command	Description
	show boot	Displays the current boot variables.

cd

To change to a different directory, use the **cd** command.

cd {**bootflash:** | **volatile:**}

Syntax Description		
bootflash:	Specifies the bootflash directory.	
volatile:	Specifies the volatile directory.	

Defaults   bootflash:

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   Use the **pwd** command to verify the name of the directory you are currently working in.

Examples   This example shows how to change to the volatile directory:

```
vsg# cd volatile
vsg#
```

Related Commands	Command	Description
	pwd	Displays the name of the directory you are currently working in.

cdp

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

cdp {**advertise** {**v1** | **v2**} | **enable** | f**ormat device-id** | **holdtime** *seconds* | **timer** *seconds*}

no cdp {**advertise** | **enable** | f**ormat device-id** | **holdtime** *seconds* | **timer** *seconds*}

Syntax Description		
advertise	Specifies the CDP version to advertise.
enable	Enables CDP globally on all interfaces and port channels.
format device-id	Specifies the device ID format for CDP.
holdtime *seconds*	Sets the maximum amount of time that CDP holds onto neighbor information before discarding it. The range of values is from 10 to 255.
timer *seconds*	Sets the refresh time for CDP to send advertisements to neighbors. The range of values is from 5 to 254.

Defaults   None

Command Modes   Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Usage Guidelines   None

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to set CDP Version 1 as the version to advertise:

```
vsg(config)# cdp advertise v1
```

This example shows how to remove CDP Version 1 as the version to advertise:

```
vsg(config)# no cdp advertise v1
```

Related Commands	Command	Description
	show cdp global	Displays the CDP configuration.

clear ac-driver

To clear Application Container (AC) driver statistics, use the **clear ac-driver** command.

clear ac-driver statistics

Syntax Description	statistics	Clears AC driver statistics.

Defaults None

Command Modes EXEC

Global configuration (config)

SupportedUserRoles network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples This example shows how to clear AC driver statistics:

```
vsg# clear ac-driver statistics
```

Related Commands

Command	Description
show ac-driver statistics	Displays AC driver statistics.

clear accounting

To clear the accounting log, use the **clear accounting** command.

clear accounting log

Syntax Description	**log**	Clears the accounting log.

Defaults None

Command Modes EXEC

Global configuration (config)

SupportedUserRoles network-admin

network-operator

Command History	**Release**	**Modification**
	4.2(1)VSG1(1)	This command was introduced.

Examples This example shows how to clear the accounting log:

```
vsg# clear accounting log
```

Related Commands	**Command**	**Description**
	show accounting log	Displays the accounting log.

clear bootvar

To clear the boot variables log, use the **clear bootvar** command.

clear bootvar log

Syntax Description	log	Clears the boot variables log.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear the boot variables log:

```
vsg# clear bootvar log
```

Related Commands	Command	Description
	show bootvar log	Displays the accounting log.

clear cdp

To clear Cisco Discovery Protocol (CDP) information, use the **clear cdp** command.

clear cdp {**counters** [**interface** {**ethernet** *slot-number* **/** *port-number* [**.** *subinterface-number*]}] |
mgmt 0}] | **table** [**interface** {**ethernet** *slot-number* **/** *port-number* [**.** *subinterface-number*]}]}

Syntax Description

counters	Clears the CDP counters.
interface	(Optional) Clears interfaces.
ethernet	Clears ethernet interfaces.
slot **/** *port-number*	Slot and port number. The range of values for slot is from 1 toh 66. The range of values for port number is from 1 to 128.
. *sub-interface*	(Optional) Sub-interface number. The range of values is from 1 to 4094.
mgmt 0	Clears the management 0 interface.
table	Clears the CDP statistics table.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to clear CDP counters on all interfaces:

```
vsg# clear cdp counters
```

Related Commands

Command	Description
show cdp all	Displays all interfaces that are CDP enabled.
show cdp entry	Displays CDP information.

clear cli

To clear CLI command history, use the **clear cli** command.

clear cli history

Syntax Description	history	Clears the CLI command history.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear the CLI command history:

```
vsg# clear cli history
```

Related Commands	Command	Description
	show cli history	Displays the CLI command history.

clear cores

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

clear cores [**archive file** *file-name*]

Syntax Description

archive file	(Optional) Clears the archived core files.
file-name	(Optional) Core file name.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear all core files:

```
vsg# clear cores
```

Related Commands

Command	Description
show cores	Displays the core filename.

clear counters

To clear interface loopback counters, use the **clear counters** command.

clear counters [**interface** {**all** | **data** | **ethernet** *slot / port* [.{*sub-interface*}] | **loopback**
virtual-interface-number | **mgmt 0** | **port-channel** *port-channel-number*}]

Syntax Description		
	interface	Interface counters.
	all	Clears all interface counters.
	ethernet *slot/port*	Clears Ethernet interface counters. The range is 1 to 66.
	loopback *virtual-interface-number*	Clears loopback interface counters. The range is 0 to 1023.
	mgmt 0	Clears the management interface.
	port-channel *port-channel-number*	Clears port-channel interfaces. The range is 1 to 4096.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to clear a counter on a specific Ethernet interface:

```
vsg# clear counters ethernet 2/1
```

Related Commands	Command	Description
	show interface counters	Displays the interface status, which includes the counters.

clear debug-logfile

To clear the contents of the debug log, use the **clear debug-logfile** command.

clear debug-logfile *log-name*

Syntax Description	*log-name*	Name of the debug log.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to clear debug log:

```
vsg# clear debug-logfile syslog_debug
```

Related Commands	Command	Description
	show debug logfile	Displays the contents of the debug logfile.

clear frame

To clear Layer 2 traffic statistics, use the **clear frame** command.

clear frame statistics

Syntax Description	statistics	Clears Layer 2 traffic statistics.

Defaults None

Command Modes EXEC

Global configuration (config)

SupportedUserRoles network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines None

Examples This example shows how to clear Layer 2 traffic statistics:

```
vsg# clear frame traffic
```

Related Commands

Command	Description
show vlan	Displays VLAN information.

clear fs-daemon

To clear the FS dameon log, use the **clear fs-daemon** command.

clear fs-daemon log

Syntax Description	**log**	Clears FS daemon log.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to clear the FS dameon log:

```
vsg# clear fs-daemon log
```

Related Commands	Command	Description
	show logging	Displays the logging configuration and the contents of the log file.

clear inspect

To clear FTP inspection statistics, use the **clear inspect** command.

clear inspect ftp statistics [**svs-domain-id** *domain-id* **module** *module-number*]

Syntax Description	**ftp statistics**	Clears FTP statistics.
	svs-domain-id	Clears FTP statistics in the SVS domain.
	domain-id	SVS domain ID.
	module	Clears FTP statistics on a specific module.
	module-number	Module number.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear FTP inspection statistics:

```
vsg# clear inspect ftp statistics svs-domain-id 2 module 63
```

Related Commands	Command	Description
	show vsg	Displays VSG information.

clear install

To clear the installation log, use the **clear install** command.

clear install {**all failed-standby** | **failure-reason** | **status**}

Syntax Description		
	all failed-standby	Clears all the installation logs.
	failure-reason	Clears the installation failure reason log.
	status	Clear the installation status log.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear all the installation logs:

```
vsg# clear install failed-standby
```

Related Commands	Command	Description
	show install all status	Displays the status of the current or last installation.

clear ip adjacency statistics

To clear IP address adjacency statistics, use the **clear ip adjacency statistics** command.

> **clear ip adjacency statistics**

Syntax Description	This command has no arguments or keywords.

Defaults	None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear IP adjacency statistics:

```
vsg# clear ip adjacency statistics
```

Related Commands

Command	Description
show ipv6 adjacency	Displays IP information.

clear ip arp

To clear specific Address Resolution Protocol (ARP) IP address statistics, use the **clear ip arp** command.

clear ip arp *ip-address* [**vrf** {*vrf-name* | **all** | **default** | **management**}]

Syntax Description		
ip-address	IP address. The format is A.B.C.D.	
vrf	Clears all VRF (Virtual Routing and Forwarding) ARP IP address statistics.	
vrf-name	VRF name. The range is from 1 to 32.	
all	Clears all ARP IP address statistics.	
default	Clears default VRF ARP IP address statistics.	
management	Clears management VRF ARP IP address statistics.	

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to clear a specific ARP IP address in EXEC mode:

```
vsg# clear ip arp 209.165.200.229
```

This example shows how to clear a specific ARP IP address in configuration mode:

```
vsg# configure
vsg#(config) clear ip arp 209.165.200.229
```

Related Commands	Command	Description
	show ip arp	Displays IP ARP information.

clear ip arp data

To clear Address Resolution Protocol (ARP) IP address statistics on the data 0 interface, use the **clear ip arp data** command.

clear ip arp data 0 [**vrf** {*vrf-name* | **all** | **default** | **management**}]

Syntax Description

0	Clears data 0 interface ARP IP address statistics.
vrf	Clears VRF ARP IP address statistics.
vrf-name	VRF name. The range is from 1 to 32.
all	Clears all ARP IP address statistics.
default	Clears default ARP IP address statistics.
management	Clears management interface ARP IP address statistics.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to clear all ARP IP address statistics on data 0 interface:

```
vsg# clear ip arp data 0 all
```

Related Commands

Command	Description
show ip arp	Displays IP ARP information.

clear ip arp ethernet

To clear ARP IP address statistics on Ethernet interfaces, use the **clear ip arp ethernet** command.

clear ip arp ethernet *slot-number* **/** *port-number* [**.** | **vrf** *vrf-name*]

Syntax Description		
	slot-number	Slot number.
	port-number	Port number.
	vrf	Clears VRF ARP IP address statistics.
	vrf-name	VRF name. The range is from 1 to 32.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to ARP IP address statistics on an Ethernet interface:

```
vsg# clear ip arp ethernet 1 / 1
```

Related Commands	Command	Description
	show ip arp	Displays IP ARP information.

clear ip arp loopback

To clear ARP IP address statistics on loopbacks, use the **clear ip arp loopback** command.

clear ip arp loopback *loopback-number* [**vrf** *vrf-name*]

Syntax Description	*loopback-number*	Loopback number.
	vrf	Clears VRF ARP IP address statistics.
	vrf-name	VRF name. The range is from 1 to 32.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to clear ARP IP address statistics on a loopback:

```
vsg# clear ip arp loopback 10
```

Related Commands	Command	Description
	show ip arp	Displays ARP IP address information.

clear ip arp mgmt

To clear Address Resolution Protocol (ARP) IP address statistics on the management interface, use the **clear ip arp mgmt** command.

clear ip arp mgmt 0 [**vrf** {*vrf-name*} | **all** | **default** | **management**}]

Syntax Description		
0	Clears management 0 interface ARP IP address statistics.
vrf	Clears VRF ARP IP address statistics.
vrf-name	VRF name. The range is from 1 to 32.
all	Clears all ARP IP address statistics.
default	Clears default ARP IP address statistics.
management	Clears management interface ARP IP address statistics.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to clear ARP IP address statistics on the management interface:

```
vsg# clear ip arp mgmt all
```

Related Commands	Command	Description
	show ip arp	Displays IP ARP information.

clear ip arp port-channel

To clear ARP IP address statistics on port channels, use the **clear ip arp port-channel** command.

clear ip arp port-channel *port-channel-number* [**.** *sub-interface* | **vrf** *vrf-name*]

Syntax Description		
	port-channel-number	Port channel number.
	sub-interface	Sub-interface number.
	vrf	Clears VRF ARP IP address statistics.
	vrf-name	VRF name. The range is from 1 to 32.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to clear ARP IP address statistics on a port channel:

```
vsg# clear ip arp port-channel 2
```

Related Commands	Command	Description
	show port-channel	Displays port channel information.

clear ip arp statistics

To clear ARP IP address statistics, use the **clear ip arp statistics** command.

clear ip arp statistics {**data 0** | **ethernet** | **loopback** | **mgmt** | **port-channel** | **vrf**}

Syntax Description

data 0	Clears the data 0 interface.
ethernet	Clears the Ethernet interface.
loopback	Clears the loopback interface.
mgmt	Clears the management interface.
port-channel	Clears the port channel interface.
vrf	Clears the VRF.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear ARP IP address statistics on data 0:

```
vsg# clear ip arp statistics data 0
```

Related Commands

Command	Description
show ip	Displays IP information.

clear ip arp vrf

To clear Address Resolution Protocol (ARP) Virtual Routing and Forwarding (VRF) IP address statistics, use the **clear ip arp vrf** command.

clear ip arp vrf {*vrf-name* | **all** | **default** | **management**}

Syntax Description	*vrf-name*	VRF name. The range is from 1 to 32.
	all	Clears all ARP IP address statistics.
	default	Clears default ARP IP address statistics.
	management	Clears management interface ARP IP address statistics.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear IP ARP VRF IP address statistics:

```
vsg# clear ip arp vrf vrf1
```

Related Commands	Command	Description
	show vrf	Displays VRF information.

clear ip igmp event-history

To clear Internet Group Management Protocol (IGMP) IP address event history entries, use the **clear ip igmp event-history** command.

clear ip igmp event-history {**cli** | **debugs** | **events** | **ha** | **igmp-internal** | **mtrace** | **policy** | **vrf**}

Syntax Description

cli	Clears CLI IGMP IP address event history entries.
debugs	Clears debug IGMP IP address event history entries.
events	Clears events IGMP IP address event history entries.
ha	Clears HA IGMP IP address event history entries.
igmp-internal	Clears internal IGMP IP address event history entries.
mtrace	Clears Mtrace IGMP IP address event history entries.
policy	Clears policy IGMP IP address event history entries.
vrf	Clears VRF IGMP IP address event history entries.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear HA IGMP IP address event history entries:

```
vsg# clear ip igmp event-history ha
```

Related Commands

Command	Description
show ip igmp	Displays IGMP status and the IGMP configuration.

clear ip igmp snooping

To clear Internet Group Management Protocol (IGMP) IP address snooping entries, use the **clear ip igmp snooping** command.

> **clear ip igmp snooping** {**event-history** [**VPC** | **igmp-snoop-internal** | **mfdm** | **mfdm-sum** | **vlan** | **vlan-events**] | **explicit-tracking vlan** *vlan-id* | **statistics vlan** [*vlan-id* | **all**]}

Syntax Description		
	event-history	Clears event history IGMP IP address snooping entries.
	VPC	(Optional) Clears VPC IGMP IP address snooping entries.
	igmp-snoop-internal	(Optional) Clears internal IGMP IP address snooping entries.
	mfdm	(Optional) Clears MFDM IGMP IP address snooping entries.
	mfdm-sum	(Optional) Clears MFDM-sum IGMP IP address snooping entries.
	vlan	(Optional) Clears VLAN IGMP IP address snooping entries.
	vlan-events	(Optional) Clears VLAN event IGMP IP address snooping entries.
	explicit-tracking	Clears explicit tracking IGMP IP address snooping entries.
	statistics vlan	Clears VLAN statistical IGMP IP address snooping entries.
	vlan-id	(Optional) VLAN identification number. The range is from 1 to 3967 or 4048 to 4093.
	all	(Optional) Clears all IGMP IP address snooping entries.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear all IGMP IP address snooping entries:

```
vsg# clear ip igmp snooping all
```

Related Commands	Command	Description
	show ip igmp	Displays IGMP status and configuration.

clear ip interface

To clear IP address statistics on interfaces, use the **clear ip interface** command.

clear ip interface statistics [**data 0** | **ethernet** *slot-number* **/** *port-number* [**.** *sub-interface-number*]
| **loopback** *loopback-number* | **mgmt** | **port-channel** *port-channel-number*
[**.** *sub-interface-number*]]

Syntax Description		
statistics	Clears IP address statistics on interfaces.
data 0	(Optional) Clears IP address statistics on the data 0 interface.
ethernet	(Optional) Clears IP address statistics on Ethernet interfaces.
slot-number	Slot number. The range is 1 to 66.
port-number	Port number. The rang is 1 to 128.
subinterface-number	Sub-interface number. The range is 1 to 4094.
loopback	(Optional) Clears IP address statistics on the loopback interface.
loopback-number	Loopback number. The range is 0 to 123.
mgmt 0	(Optional) Clears IP address statistics on the management 0 interface.
port-channel	(Optional) Clears IP address statistics on the port channel interface.
port-channel-number	Port channel number. The range is 1 to 4096.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear IP address statistics on an Ethernet interface:

```
vsg# clear ip interface statistics ethernet 1 / 2
```

Related Commands	Command	Description
	show ip interface	Displays IP interface information.

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clear ip route

To clear IP routing information, use the **clear ip route** command.

clear ip route {***** | **A.B.C.D** [**A.B.C.D** {**data 0** | **ethernet slot / port** | **loopback** *loopback-number* | **port-channel** *portchannel-number*}] | **A.B.C.D/LEN** [**A.B.C.D** {**data 0** | **ethernet slot / port** | **loopback** *loopback-number* | **port-channel** *portchannel-number*}] | **vrf** {*vrf-name* | **default** | **management 0**}}

Syntax Description

*	Clears all IP routing information.
A.B.C.D	Clears IP routing information at a specific IP address.
data 0	ClearsIP routing information on the management 0 interface.
ethernet slot / port	ClearsIP routing information on a specific Ethernet interface.
loopback	ClearsIP routing information on the loopback interface.
loopback-number	Loopback number. The range is from 0 to 1023.
port-channel	ClearsIP routing information on the port channel.
portchannel-number	Port channel number. The range is from 1 to 4096.
A.B.C.D/LEN	Clears IP routing information at a specific IP address.
vrf	Clears IP routing information for a VRF.
vrf-name	VRF name. The range is from 1 to 32.
default	Clears default IP routing information.
management 0	ClearsIP routing information on the management 0 interface.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear IP routing information:

```
vsg# clear ip route all
```

■ **clear ip route**

Related Commands	Command	Description
	show routing	Displays routes.

clear ip traffic

To clear global IP statistics, use the **clear ip traffic** command.

clear ip traffic [**vrf** {*vrf-name* | **default** | **management**}]

Syntax Description		
vrf	Clears Virtual Routing and Forwarding (VRF) global IP address statistics.	
vrf-name	VRF name. The range is from 1 to 32.	
default	Clears default global IP address statistics.	
management	Clears management global IP address statistics.	

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to clear global IP statistics:

```
vsg# clear ip traffic
```

Related Commands	Command	Description
	show ip traffic	Displays IP traffic information.

clear ipv6 adjacency statistics

To clear IPv6 address adjacency statistics, use the **clear ipv6 adjacency statistics** command.

clear ipv6 adjacency statistics

Syntax Description   This command has no arguments or keywords.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear IPv6 address adjacency statistics:

```
vsg# clear ipv6 adjacency statistics
```

Related Commands

Command	Description
show ipv6 adjacency	Displays IPv6 statistics.

clear ipv6 icmp interface statistics

To clear Internet Control Management Protocol (ICMP) IPv6 interface statistics, use the **clear ipv6 icmp interface statistics** command.

clear ipv6 icmp interface statistics [**data 0** | **ethernet** *slot-number* **/** *port-number*
[**.** *sub-interface-number*] | **loopback** *virtual-interface-number* | **port-channel**
port-channel-number [**.** *sub-interface-number*]]

Syntax Description		
data 0	(Optional) Clears the data 0 interface.	
ethernet	(Optional) Clears the Ethernet interface.	
slot-number	Ethernet slot number. The range is 1 to 66.	
/	Slot number port number separator.	
port-number	Ethernet port number. The range is 1 to 128.	
.	Port number sub-interface number separator.	
sub-interface-number	(Optional) Sub-interface number. The range is 1 to 4094.	
loopback	Clears the loopback interface.	
virtual-interface-number	Virtual interface number. The range is 0 to 1023.	
port-channel	(Optional) Clears the port channel interface.	
port-channel-number	Port Channel number. The range is 1 to 4096.	

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear ICMP IPv6 Ethernet interface statistics:

```
vsg# clear ipv6 icmp interface statistics ethernet 1 / 2 . 3
```

Related Commands

Command	Description
show ipv6 icmp	Displays ICMPv6 information.

clear ipv6 icmp mld groups

To clear Internet Control Message Protocol (ICMP) Multitask Listener Discovery (MLD) group IPv6 statistics, use the **clear ipv6 icmp mld groups** command.

clear ipv6 icmp mld groups {***** [**vrf** {*vrf-name* | **all** | **default** | **management**}] | **A:B::C:D** | **A:B::C:D/LEN**}

Syntax Description

*	Clears all routes.
vrf	(Optional) Clears ICMP MLD VRF IPv6 routes.
vrf-name	VRF name. The range is from 1 to 32.
all	Clears all routing information.
default	Clears default routing information.
management	Clears management routing information.
A:B::C:D	Clears a specific IPv6 address.
A:B::C:D/LEN	Clears a specific IPv6 address.

Defaults

None

Command Modes

EXEC

Global configuration (config)

SupportedUserRoles

network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples

This example shows how to clear all ICMP MLD group IPv6 statistics:

```
vsg# clear ipv6 icmp mld groups *
```

Related Commands

Command	Description
show ipv6 icmp	Displays ICMPv6 information.

clear ipv6 icmp mld route

To clear Internet Control Message Protocol (ICMP) Multitask Listener Discovery (MLD) routes, use the **clear ipv6 icmp mld route** command.

clear ipv6 icmp mld route {***** [**vrf** {*vrf-name* | **all** | **default** | **management**}] | **A:B::C:D** | **A:B::C:D/LEN**}

Syntax Description

*	Clears all routes.
vrf	(Optional) Clears ICMP MLD VRF IPv6 routes.
vrf-name	VRF name. The range is from 1 to 32.
all	Clears all routing information.
default	Clears default routing information.
management	Clears management routing information.
A:B::C:D	Clears a specific ICMP MLD IPv6 route.
A:B::C:D/LEN	Clears a specific ICMP MLD IPv6 route.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear all IPv6 ICMP MLD routes:

```
vsg# clear ipv6 icmp mld route *
```

Related Commands

Command	Description
show ipv6 icmp	Displays ICMPv6 information.

clear ipv6 nd interface statistics

To clear ND (Neighbor Discovery) IPv6 interface statistics, use the **clear ipv6 nd interface statistics** command.

clear ipv6 nd interface statistics [**data 0** | **ethernet** *slot-number* **/** *port-number*
[**.** *sub-interface-number*] | **loopback** *virtual-interface-number* | **port-channel**
port-channel-number [**.** *sub-interface-number*]]

Syntax Description		
data 0	(Optional) Clears the data 0 interface.	
ethernet	(Optional) Clears the Ethernet interface.	
slot-number	Ethernet slot number. The range is from 1 to 66.	
/	Slot number port number separator.	
port-number	Ethernet port number. The range is from 1 to 128.	
.	Port number sub-interface number separator.	
sub-interface-number	Sub-interface number. The range is from 1 to 4094.	
loopback	(Optional) Clears the loopback interface.	
virtual-interface-number	Virtual interface number. The range is from 0 to 1023.	
port-channel	(Optional) Clears the port channel interface.	
port-channel-number	Port Channel number. The range is from 1 to 4096.	

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to clear IPv6 ND interface statistics:

```
vsg# clear ipv6 nd interface statistics ethernet 2 / 3 . 4
```

Related Commands	Command	Description
	show ipv6 nd	Displays Neighbor Discovery interface statistics.

clear pktmgr client

To clear packet manager client counters, use the **clear pktmgr client** command.

clear pktmgr client [*client-counter-uuid*]

Syntax Description	*client-counter-uuid*	(Optional) Client counter user identification. The range is from 0 to 4294967295.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to clear a packet manager client counter:

```
vsg# clear pktmgr client 100
```

Related Commands

Command	Description
clear routing	Clears routing information.

clear pktmgr interface

To clear packet manager interface information, use the **clear pktmgr interface** command.

clear pktmgr interface [**data 0** | **ethernet** *slot-number* **/** *port-number* [**.** *sub-interface-number*] | **loopback** *virtual-interface-number* | **mgmt 0** | **port-channel** [**.** *sub-interface-number*]]

Syntax Description		
	data 0	(Optional) Clears the data 0 interface.
	ethernet	(Optional) Clears the Ethernet interface.
	slot-number	Ethernet slot number. The range is 1 to 66.
	/	Slot number port number separator.
	port-number	Ethernet port number. The range is 1 to 128.
	.	Port number sub-interface number separator.
	sub-interface-number	Sub-interface number. The range is 1 to 4094.
	loopback	(Optional) Clears the loopback interface.
	virtual-interface-number	Virtual interface number. The range is 0 to 1023.
	port-channel	(Optional) Clears the port channel interface.
	port-channel-number	Port Channel number. The range is 1 to 4096.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear packet manager interface information:

```
vsg# clear pktmgr interface ethernet 10 / 11 . 12
```

Related Commands	Command	Description
	clear pktmgr client	Clears the packet manager client.

clear line

To end a session on a specified Virtual Teletype (VTY), use the **clear line** command.

clear line *vty-name*

Syntax Description		
vty-name	VTY name. The range is from 1 to 64.	

Defaults None

Command Modes EXEC

Global configuration (config)

SupportedUserRoles network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples This example shows how to end a session on a specified VTY:

```
vsg# clear line VTY100
```

Related Commands	Command	Description
	show users	Displays active user sessions.

clear logging

To clear logfile messages and logging sessions, use the **clear logging** command.

clear logging {**logfile** | **session**}

Syntax Description	logfile	Clears log file messages.
	session	Clears logging sessions.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear messages from the logging file:

```
vsg# clear logging logfile
```

Related Commands	Command	Description
	show logging logfile	Displays the contents of the log file.

clear ntp

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

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

Syntax Description

session	Clears NTP sessions.
statistics	Clears NTP statistics.
all-peers	Clear all statistics.
io	Clear IO statistics.
local	Clear local statistics.
memory	Clear memory statistics.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear all NTP statistics:

```
vsg# clear ntp statistics all-peers
```

Related Commands

Command	Description
show ntp peers	Displays information about NTP peers.

clear nvram

To clear the Non-volatile RAM (NVRAM), use the **clear nvram** command.

clear nvram

Syntax Description   This command has no arguments or keywords.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to clear the NVRAM:

```
vsg# clear nvram
```

Related Commands

Command	Description
show system resources	Displays system resources.

clear policy-engine

To clear policy engine statistics, use the **clear policy-engine** command.

clear policy-engine {*policy-name* **stats** | **stats**}

Syntax Description		
policy-name	Policy engine name.	
stats	Clears policy engine statistics.	

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear policy engine statistics:

```
vsg# clear policy-engine stats
```

Related Commands	Command	Description
	show policy-engine	Displays the policy engine.

clear processes

To clear process logs, use the **clear processes** command.

> **clear processes** {**log** {**all** | **archive** [*archive-name*] | **pid** *pid-number*} | **vdc** *vdc-name* {**all** | **pid** *pid-number*}}

Syntax Description		
log	Clears process logs.
all	Clears all process logs.
archive *archive-name*	(Optional) Clears archived process logs.
pid *pid-number*	Clears the process log for a specific process.
vdc *vdc-name*	Clears process logs for a specific VSG.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear all process logs:

```
vsg# clear processes log all
```

Related Commands	Command	Description
	show processes	Displays all processes.

clear rmon

To clear Remote Monitoring (RMON) logs, use the **clear rmon** command.

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

Syntax Description		
alarms	Clears RMON alarms.	
all-alarms	Clears all RMON alarms.	
events	Clears RMON events.	
hcalarms	Clears HC RMON alarms.	

Defaults None

Command Modes EXEC

Global configuration (config)

SupportedUserRoles network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples This example shows how to clear RMON alarms:

```
vsg# clear rmon alarms
```

Related Commands	Command	Description
	show rmon	Displays RMON information.

clear role

To clear role session information, use the **clear role** command.

clear role session

Syntax Description	**session**	Clears the role session information.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	**Release**	**Modification**
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear role session information:

```
vsg# clear role session
```

Related Commands	**Command**	**Description**
	show role	Displays role information.

clear routing *

To clear all routes, use the **clear routing *** command.

clear routing *

Syntax Description   This command has no arguments or keywords.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear all routes:

```
vsg# clear routing *
Clearing ALL routes
vsg#
```

Related Commands

Command	Description
show routing	Displays the IP route table.

clear routing A.B.C.D

To clear specific routes, use the **clear routing A.B.C.D** command.

clear routing *ip-address* [*ip-address* {**data 0** | **ethernet** *slot-number* **/** *port-number*
[**.**{*sub-interface-number*}] | **loopback** *virtual-interface-number* | **port-channel**
port-channel-number}]

Syntax Description		
ip-address	IP address. The format is A.B.C.D.
data 0	(Optional) Clears routing on the data 0 interface.
ethernet	(Optional) Clears routing on Ethernet interfaces.
slot-number	Slot number. The range is from 1 to 66.
/	Slot and port number separator.
port-number	Port number. The rang is from 1 to 128.
.	Sub-interface separator.
subinterface-number	Sub-interface number. The range is from 1 to 4094.
loopback	(Optional) Clears routing on the loopback interface.
virtual-interface-number	Loopback number. The range is from 0 to 123.
mgmt 0	(Optional) Clears routing on the management 0 interface.
port-channel	(Optional) Clears routing on the port channel interface.
port-channel-number	Port channel number. The range is from 1 to 4096.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear routes on the data 0 interface:

```
vsg# clear routing 209.165.200.228 data 0
```

Related Commands

clear routing A.B.C.D

Command	Description
show routing	Displays the IP route table.

clear routing A.B.C.D/LEN

To clear specific routes, use the **clear routing A.B.C.D** command.

clear routing *ip-address* [*ip-address* {**data 0** | **ethernet** *slot-number* **/** *port-number*
[**.**{*sub-interface-number*}] | **loopback** *virtual-interface-number* | **port-channel**
port-channel-number}]

Syntax Description		
ip-address	IP address. The format is A.B.C.D.
data 0	(Optional) Clears routing on the data 0 interface.
ethernet	(Optional) Clears routing on Ethernet interfaces.
slot-number	Slot number. The range is from 1 to 66.
/	Slot and port number separator.
port-number	Port number. The rang is from 1 to 128.
.	Sub-interface separator.
subinterface-number	Sub-interface number. The range is from 1 to 4094.
loopback	(Optional) Clears routing on the loopback interface.
virtual-interface-number	Loopback number. The range is from 0 to 123.
mgmt 0	(Optional) Clears routing on the management 0 interface.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear routes on the data 0 interface:

```
vsg# clear routing 209.165.200.228 data 0
```

Related Commands	Command	Description
	show routing	Displays the IP route table.

clear routing event-history

To clear routing event histories, use the **clear routing event-history** command.

clear routing event-history {**add-route** | **cli** | **delete-route** | **errors** | **general** | **loop-detection** | **modify-route** | **notifications** | **recursive-next-hop** | **summary** | **udfm** | **udfm-summary**}

Syntax Description

add-route	Clears the added routes event history.
cli	Clears the Command Line Interface (CLI) routing event history.
delete-route	Clears the deleted routes event history.
errors	Clears the error routes event history.
general	Clears the general routes event history.
loop-detection	Clears the loop-detection routes event history.
modify-route	Clears the modified routes event history.
notifications	Clears the notification routes event history.
recursive-next-hop	Clears the recursive-next-hop routing event history.
summary	Clears the summary routing event history.
ufdm	Clears the UDFM routing event history.
ufdm-summary	Clears the UDFM summary routing event history.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear the loop-detection routes event history:

```
vsg# clear routing event-history loop-detection
```

Related Commands

Command	Description
show routing	Displays the IP route table.

clear routing ip *

To clear all IP routes, use the **clear routing ip** * command.

clear routing ip *

Syntax Description	This command has no arguments or keywords.

Defaults	None

Command Modes	EXEC
	Global configuration (config)

SupportedUserRoles	network-admin
	network-operator

Command History	**Release**	**Modification**
	4.2(1)VSG1(1)	This command was introduced.

Examples	This example shows how to clear all IP routes:

```
vsg# clear routing ip *
```

Related Commands	**Command**	**Description**
	show routing	Displays the IP route table.

clear routing ip A.B.C.D

To clear IP routing statistics, use the **clear routing ip** command.

clear routing ip *ip-address* [**data 0** | **ethernet** *slot-number* **/** *port-number* [**.** *sub-interface-number*]
| **loopback** *virtual-interface-number* | **mgmt 0** | **port-channel** [**.** *sub-interface-number*]]

data 0	Clears the data 0 interface.
ethernet	Clears the Ethernet interface.
slot-number	Ethernet slot number. The range is from 1 to 66.
/	Slot number port number separator.
port-number	Ethernet port number. The range is from 1 to 128.
.	Port number sub-interface number separator.
sub-interface-number	Sub-interface number. The range is from 1 to 4094.
loopback	Clears the loopback interface.
virtual-interface-number	Virtual interface number. The range is from 0 to 1023.
port-channel	Clears the port channel interface.
port-channel-number	Port Channel number. The range is from 1 to 4096.

Syntax Description *(label for table above)*

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear IP routes on slot 2, port 3:

```
vsg# clear routing ip ethernet 2 / 3
```

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Related Commands	Command	Description
	show routing	Displays the IP route table.

clear routing ip A.B.C.D/LEN

To clear routing, use the **clear routing ip A.B.C.D/LEN** command.

clear routing ip *ip-address* [*ip-address* {**data 0** | **ethernet** *slot-number* / *port-number* [.{*sub-interface-number*}] | **loopback** *virtual-interface-number* | **port-channel** *port-channel-number*}]

Syntax Description		
	data 0	Clears the data 0 interface.
	ethernet	Clears the Ethernet interface.
	slot-number	Ethernet slot number. The range is from 1 to 66.
	/	Slot number port number separator.
	port-number	Ethernet port number. The range is from 1 to 128.
	.	Port number sub-interface number separator.
	sub-interface-number	Sub-interface number. The range is from 1 to 4094.
	loopback	Clears the loopback interface.
	virtual-interface-number	Virtual interface number. The range is from 0 to 1023.
	port-channel	Clears the port channel interface.
	port-channel-number	Port Channel number. The range is from 1 to 4096.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear IP routes:

```
vsg# clear routing ip 209.165.200.228
```

Related Commands	Command	Description
	show routing	Displays the IP route table.

clear routing ip event-history

To clear routing event histories, use the **clear routing ip event-history** command.

clear routing ip event-history {**add-route** | **cli** | **delete-route** | **errors** | **general** | **loop-detection** | **modify-route** | **notifications** | **recursive-next-hop** | **summary** | **udfm** | **udfm-summary**}

Syntax Description

add-route	Clears the added routes event history.
cli	Clears the CLI routing event history.
delete-route	Clears the deleted routes event history.
errors	Clears the error routes event history.
general	Clears the general routes event history.
loop-detection	Clears the loop-detection routes event history.
modify-route	Clears the modified routes event history.
notifications	Clears the notification routes event history.
recursive-next-hop	Clears the recursive-next-hop routing event history.
summary	Clears the summary routing event history.
udfm	Clears the UDFM routing event history.
udfm-summary	Clears the UDFM summary routing event history.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to clear the notifications routes event history:

```
vsg# clear routing ip event-history notifications
```

Related Commands	Command	Description
	show routing	Displays the IP route table.

clear routing ip unicast

To clear unicast routing entries, use the **clear routing ip unicast** command.

clear routing ip unicast {***** | **A.B.C.D** | **A.B.C.D/LEN** | **event-history**}

Syntax Description		
	*	Clears all IP unicast routes.
	A.B.C.D	Clears a specific IP unicast route.
	A.B.C.D/LEN	Clears a specific IP unicast route.
	event-history	Clears the IP unicast event history.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear all IP unicast routes:

```
vsg# clear routing ip unicast *
```

Related Commands	Command	Description
	show routing	Displays the IP route table.

clear routing ipv4

To clear IPv4 route entries, use the **clear routing ipv4** command.

clear routing ipv4 {***** | **A.B.C.D** | **A.B.C.D/LEN** | **event-history** | **unicast**}

Syntax Description

*	Clears all IPv4 routes.
A.B.C.D	Clears a specific IPv4 route.
A.B.C.D/LEN	Clears a specific IPv4 route.
event-history	Clears the IPv4 routing event history.
unicast	Clears IPv4 unicast routes.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear all IPv4 routes:

```
vsg# clear routing ipv4 *
```

Related Commands

Command	Description
show routing	Displays the IP route table.

clear routing ipv6

To clear IPv6 route entries, use the **clear routing ipv6** command.

clear routing ipv6 {***** | **A:B::C:D** | **A:B::C:D/LEN** | **event-history** | **unicast**}

Syntax Description

*	Clears all IPv6 routes.
A.B.C.D	Clears a specific IPv6 route.
A.B.C.D/LEN	Clears a specific IPv6 route.
event-history	Clears the IPv6 routing event history.
unicast	Clears IPv6 unicast routes.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear all IPv6 routes:

```
vsg# clear routing ipv6 *
```

Related Commands

Command	Description
show routing	Displays the IP route table.

clear routing vrf

To clear Virtual Routing and Forwarding (VRF) routes, use the **clear routing vrf** command.

clear routing vrf *vrf-name*

Syntax Description

vrf-name	VRF name. The range is from 1 to 32.

Defaults

None

Command Modes

EXEC

Global configuration (config)

SupportedUserRoles

network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples

This example shows how to clear VRF routes:

```
vsg# clear routing vrf vrfTest
```

Related Commands

Command	Description
show routing	Displays the IP route table.

clear routing vrf default

To clear Virtual Routing and Forwarding (VRF) routes, use the **clear routing vrf default** command.

clear routing vrf default {***** | **A.B.C.D** | **A.B.C.D/LEN** | **ip** | **ipv4** | **ipv6** | **unicast**}

Syntax Description		
	*	Clears all VRF routes.
	A.B.C.D	Clears a specific VRF route.
	A.B.C.D/LEN	Clears a specific VRF route.
	ip	Clears IP VRF routes.
	ipv4	Clears IPv4 VRF routes.
	ipv6	Clears IPv6 VRF routes.
	unicast	Clears unicast VRF routes.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to clear VRF routes:

```
vsg# clear routing vrf default *
```

Related Commands	Command	Description
	show routing	Displays the IP route table.

clear routing vrf management *

To clear all Virtual Routing and Forwarding (VRF) management routes, use the **clear routing vrf management *** command.

clear routing vrf management *

Syntax Description   This command has no arguments or keywords.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to clear all VRF management routes:

```
vsg# clear routing vrf management *
```

Related Commands

Command	Description
show routing	Displays the IP route table.

clear routing vrf management *ethernet address*

To clear specific Virtual Routing and Forwarding (VRF) management routes, use the **clear routing vrf management *ethernet-address*** command.

> **clear routing vrf managment** *ethernet-address* [*ethernet-address* {**data 0** | **ethernet** *slot-number* **/** *port-number* [**.** *sub-interface*] | **loopback** *loopback-number* | **port-channel** *port-number* [**.** *sub-interface*]}

Syntax Description		
	ethernet-address	(Optional) Ethernet address.
	data 0	Clears VRF management routes.
	ethernet	Clears VRF management routes on Ethernet ports.
	slot-number	Ethernet port slot number.
	/	Slot and port separator.
	port-number	Ethernet port number.
	. *sub-interface*	(Optional) Ethernet sub-interface.
	loopback	Clears VRF management routes on a loopback.
	loopback-number	Loopback number.
	port-channel	Clears VRF management routes on a port-channel.
	port-number	Port-channel number.
	unicast	Clears unicast IP routes.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear a specific set of Ethernet routes:

```
vsg# clear routing vrf management 209.165.200.226 209.165.200.236 ethernet 2 / 4
```

Related Commands	Command	Description
	show routing	Displays the IP route table.

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clear routing vrf management ethernet address/LEN

To clear specific VRF management routes, use the **clear routing vrf management**
ethernet-address/length command.

> **clear routing vrf managment** *ethernet-address* [*ethernet-address* {**data 0** | **ethernet** *slot-number /*
> *port-number* [**.** *sub-interface*] | **loopback** *loopback-number* | **port-channel** *port-number* [**.**
> *sub-interface*]}

Syntax Description

ethernet-address	Ethernet address.
data 0	Clears VRF management routes.
ethernet	Clears VRF management routes on Ethernet ports.
slot-number	Ethernet port slot number.
port-number	Ethernet port number.
. *sub-interface*	Ethernet sub-interface.
loopback	Clears VRF management routes on a loopback.
loopback-number	Loopback number.
port-channel	Clears VRF management routes on a port-channel.
port-number	Port-channel number.
unicast	Clears unicast IP routes.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to clear a specific set of Ethernet routes:

```
vsg# clear routing vrf management 209.165.200.226 209.165.200.236 ethernet 2 / 4
```

Related Commands	Command	Description
	show routing	Displays the IP route table.

clear routing vrf management ip

To clear Virtual Routing and Forwarding *(*VRF) IP management routes, use the **clear routing vrf management ip** command.

> **clear routing vrf managment ip** {***** | **A.B.C.D** [**A.B.C.D** {**data 0** | **ethernet** *slot-number* **/** *port-number* [**.** *sub-interface*] | **loopback** *loopback-number* | **port-channel** *port-number* [**.** *sub-interface*]} | **A.B.C.D/LEN** [**A.B.C.D** {**data 0** | **ethernet** *slot-number* **/** *port-number* [**.** *sub-interface*] | **loopback** *loopback-number* | **port-channel** *port-number* [**.** *sub-interface*]} | **unicast** [**A.B.C.D** {**data 0** | **ethernet** *slot-number* **/** *port-number* [**.** *sub-interface*] | **loopback** *loopback-number* | **port-channel** *port-number* [**.** *sub-interface*]}}

Syntax Description		
	*	Clears all IP routes.
	A.B.C.D	(Optional) Clears a specific VRF management IP route.
	data 0	Clears VRF management IP routes.
	ethernet	Clears VRF management IP routes on Ethernet ports.
	slot-number	Ethernet port slot number.
	/	Slot number and port number separator.
	port-number	Ethernet port number.
	.	Subinterface separator.
	sub-interface	(Optional) Ethernet subinterface.
	loopback	Clears VRF management IP routes on a loopback.
	loopback-number	Loopback number.
	port-channel	Clears VRF management IP routes on a port-channel.
	port-number	Port-channel number.
	unicast	Clears unicast IP routes.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples

This example shows how to clear all IP unicast routes:

```
vsg# clear routing vrf management ip unicast *
```

Related Commands

Command	Description
show routing	Displays the IP route table.

clear routing vrf management ipv4

To clear IPv4 VRF management routes, use the **clear routing vrf management ipv6** command.

clear routing vrf managment ipv4 {***** | **A.B.C.D** [**A.B.C.D** {**data 0** | **ethernet** *slot-number* **/** *port-number* [**.** *sub-interface*] | **loopback** *loopback-number* | **port-channel** *port-number* [**.** *sub-interface*]} | **A.B.C.D/LEN** [**A.B.C.D** {**data 0** | **ethernet** *slot-number / port-number* [**.** *sub-interface*] | **loopback** *loopback-number* | **port-channel** *port-number* [**.** *sub-interface*]} | **unicast** [**A.B.C.D** {**data 0** | **ethernet** *slot-number / port-number* [**.** *sub-interface*] | **loopback** *loopback-number* | **port-channel** *port-number* [**.** *sub-interface*]}]}

Syntax Description		
*	Clears all IPv4 routes.	
A.B.C.D	Clears a specific VRF management IPv4 route.	
data 0	Clears VRF management IPv4 routes.	
ethernet	Clears VRF management IPv4 routes on Ethernet ports.	
slot-number	Ethernet port slot number.	
/	Slot number and port number separator.	
port-number	Ethernet port number.	
.	Subinterface separator.	
sub-interface	Ethernet sub-interface.	
loopback	Clears VRF management IPv4 routes on a loopback.	
loopback-number	Loopback number.	
port-channel	Clears VRF management IPv4 routes on a port-channel.	
port-number	Port-channel number.	
unicast	Clears unicast IP routes.	

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear an IPv4 VRF management route:

```
vsg# clear routing vrf management ipv4 209:165::200:229
```

Related Commands	Command	Description
	show routing	Displays the IP route table.

clear routing vrf management ipv6

To clear IPv6 VRF management routes, use the **clear routing vrf management ipv6** command.

clear routing vrf managment ipv6 {***** | **A.B.C.D** [**A.B.C.D** {**data 0** | **ethernet** *slot-number* **/** *port-number* [**.** *sub-interface*] | **loopback** *loopback-number* | **port-channel** *port-number* [**.** *sub-interface*]} | **A.B.C.D/LEN** [**A.B.C.D** {**data 0** | **ethernet** *slot-number / port-number* [**.** *sub-interface*] | **loopback** *loopback-number* | **port-channel** *port-number* [**.** *sub-interface*]} | **unicast** [**A.B.C.D** {**data 0** | **ethernet** *slot-number / port-number* [**.** *sub-interface*] | **loopback** *loopback-number* | **port-channel** *port-number* [**.** *sub-interface*]}]}

Syntax Description		
*	Clears all IPv6 routes.	
A.B.C.D	Clears a specific IPv6 route.	
data 0	Clears VRF management IPv6 routes.	
ethernet	Clears VRF management IPv6 routes on Ethernet ports.	
slot-number	Ethernet port slot number.	
/	Slot number and port number separator.	
port-number	Ethernet port number.	
.	Subinterface separator.	
sub-interface	Ethernet sub-interface.	
loopback	Clears VRF management IPv6 routes on a loopback.	
loopback-number	Loopback number.	
port-channel	Clears VRF management IPv6 routes on a port-channel.	
port-number	Port-channel number.	
unicast	Clears unicast IP routes.	

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear an IPv6 VRF management route:

```
vsg# clear routing vrf management ipv6 209:165::200:225
```

Related Commands	Command	Description
	show routing	Displays the IP route table.

clear routing vrf management unicast

To clear unicast VRF management routes, use the **clear routing vrf management unicast** command.

clear routing vrf managment unicast {***** | **A.B.C.D** [**A.B.C.D** {**data 0** | **ethernet** *slot-number* **/**
port-number [**.** *sub-interface*] | **loopback** *loopback-number* | **port-channel** *port-number* [**.**
sub-interface]} | **A.B.C.D/LEN** [**A.B.C.D** {**data 0** | **ethernet** *slot-number* **/** *port-number* [**.**
sub-interface] | **loopback** *loopback-number* | **port-channel** *port-number* [**.** *sub-interface*]}]}

Syntax Description

*	Clears all unicast routes.
A.B.C.D	Clears a specific VRF management unicast route.
data 0	Clears VRF management unicast routes.
ethernet	Clears VRF management unicast routes on Ethernet ports.
slot-number	Ethernet port slot number.
/	Slot number and port number separator.
port-number	Ethernet port number.
.	Subinterface separator.
sub-interface	Ethernet sub-interface.
loopback	Clears VRF management unicast routes on a loopback.
loopback-number	Loopback number.
port-channel	Clears VRF management unicast routes on a port-channel.
port-number	Port-channel number.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

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Examples   This example shows how to clear a specific unicast route:

```
vsg# clear routing vrf management unicast 209.165.200.225
```

Related Commands

Command	Description
show routing	Displays the IP route table.

clear scheduler

To clear the scheduler log, use the **clear scheduler** command.

clear scheduler logfile

Syntax Description

logfile	Clears the scheduler log.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear the scheduler log file:

```
vsg# clear scheduler logfile
```

Related Commands

Command	Description
show scheduler logfile	Displays the scheduler log file.

clear screen

To clear the screen, use the **clear screen** command.

clear screen

Syntax Description   This command has no key words or arguments.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear the screen:

```
vsg# clear screen
```

Related Commands

Command	Description
show terminal	Displays terminal configuration parameters.

clear service-path

To clear service path information, use the **clear service-path** command.

clear service-path {**connection** | **statistics** [**svs-domain-id** *id* **module** *module-number*]}

Syntax Description		
	connection	Clears all the connection entries in the flow table.
	statistics	Clears service path statistics.
	svs-domain-id	Clears the SVS domain identification number.
	id	DVS domain identification number.
	module	Clears module information.
	module-number	Module number.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to clear service path statistics:

```
vsg# clear service-path statistics
```

Related Commands	Command	Description
	show service-path statistics	Displays service path statistics.

clear snmp

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

clear snmp {**counters** | **hostconfig**}

Syntax Description		
counters	Clear the SNMP counters.	
hostconfig	Clears the SNMP host list.	

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear SNMP counters:

```
vsg# clear snmp counters
```

Related Commands

Command	Description
show snmp community	Displays SNMP community strings.

clear sockets

To clear socket statistics, use the **clear sockets** command.

clear sockets {**all** | **raw** | **raw6** | **tcp** | **tcp6** | **udp** | **udp6**}

Syntax Description

all	Clears all scoket statistics.
raw	Clears RAW v4 statistics.
raw6	Clears RAW v6 statistics.
tcp	Clears TCP v4 statistics.
tcp6	Clears TCP v6 statistics.
udp	Clears UDP v4 statistics.
udp6	Clears UDP v6 statistics.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear socket statistics:

```
vsg# clear sockets all
```

Related Commands

Command	Description
show sockets statistics	Displays TCP socket statistics.

clear ssh

To clear the Secure Shell (SSH) host session, use the **clear ssh** command.

clear ssh hosts

Syntax Description	hosts	Clears the SSH host session.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear all SSH host sessions:

```
vsg# clear ssh hosts
```

Related Commands	Command	Description
	show ssh	Displays SSH information.

clear system internal ac application

To clear application containers, use the **clear system internal ac application** command.

clear system internal ac application *application-name* **instance** *instance-number* [**fe** *fe-name*]

Syntax Description

application-name	Application container name.
instance	Clears the application container instance.
instance-number	Application container instance number.
fe	(Optional) Clears the functional element.
fe-name	(Optional) Functional element name.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to clear an application container:

```
vsg# clear system internal ac application core instance 1
```

Related Commands

Command	Description
show system internal ac application	Displays application container information.

clear system internal ac ipc-stats

To clear application container Instructions per Cycle (IPC) statistics, use the **clear system internal ac ipc-stats** command.

> **clear system internal ac ipc-stats fe** {**attribute-manager** | **inspection-ftp** | **inspection-rsh** | **inspection-tftp** | **service-path**}

Syntax Description

fe	Clears the functional element.
attribute-manager	Clears the attribute manager FE.
inspection-ftp	Clears the inspection FTP FE.
inspection-rsh	Clears the inspection RSH FE.
inspection-tftp	Clears the inspection TFTP FE.
service-path	Clears the service path FE.

Defaults

None

Command Modes

EXEC

Global configuration (config)

SupportedUserRoles

network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines

None

Examples

This example shows how to clear application container IPC statistics:

```
vsg# clear system internal ac ipc-stats
vsg#
```

Related Commands

Command	Description
show system internal ac application	Displays application container information.

clear user

To clear a user session, use the **clear user** command.

clear user *user-id*

Syntax Description	*user-id*	User identification number.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to clear a user session:

```
vsg# clear user user1
```

Related Commands	Command	Description
	show users	Displays user session information.

cli

To define a Comand Line Interface (CLI) variable for a terminal session, use the **cli** command. To remove the CLI variable, use the **no** form of the command.

cli var name *variable-name variable-text*

cli no var name *variable-name*

Syntax Description

variable-name	Variable name. The name is alphanumeric, case sensitive, and has a maximum of 31 characters.
variable-text	Variable text. The text is alphanumeric, can contain spaces, and has a maximum of 200 characters.

Defaults   None

Command Modes   EXEC

SupportedUserRoles   network-admin

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   You can reference a CLI variable using the following syntax:

$(variable-name**)**

Instances where you can use variables are as follows:

- Command scripts
- Filenames

You cannot reference a variable in the definition of another variable.

You can use the predefined variable, TIMESTAMP, to insert the time of day. You cannot change or remove the TIMESTAMP CLI variable.

You must remove a CLI variable before you can change its definition.

Examples   This example shows how to define a CLI variable:

```
vsg# cli var name testinterface interface 2/3
vsg#
```

This example shows how to reference the TIMESTAMP variable:

```
vsg# copy running-config > bootflash:run-config-$(TIMESTAMP).cnfg
vsg#
```

This example shows how to remove a CLI variable:

```
vsg# cli no var name testinterface interface 2/3
vsg#
```

Related Commands	Command	Description
	show cli variables	Displays the CLI variables.

clock set

To manually set the clock, use the **clock set** command.

clock set *time day month year*

Syntax Description

time	Time of the day. The format is *HH***:***MM***:***SS*.
day	Day of the month. The range is from 1 to 31.
month	Month of the year. The values are **January**, **February**, **March**, **April**, **May**, **June**, **July**, **August**, **September**, **October**, **November**, and **December**.
year	Year. The range is from 2000 to 2030.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   Use this command when you cannot synchronize your device with an outside clock source, such as a Network Time Protocol (NTP) server.

Examples   This example shows how to manually set the clock:

```
vsg# clock set 9:00:00 29 January 2011
vsg#
```

Related Commands

Command	Description
show clock	Displays the clock time.

configure ∎

configure

To enter configuration mode, use the **configure** command.

configure

Syntax Description   This command has no arguments or keywords.

Defaults   None

Command Modes   EXEC

SupportedUserRoles   network-admin

netwotk operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to enter configuration mode:

```
vsg# configure
Enter configuration commands, one per line.  End with CNTL/Z.
vsg(config)#
```

Related Commands

Command	Description
interface data 0	Enters interface configuration mode.

copy bootflash:

To copy files from the bootflash directory, use the **copy bootflash:** command.

copy bootflash://*file-address destination-address*

Syntax Description	//*file-address*	Address of the files to copy.
	destination-address	Address of the destination directory.
		Use one of the following directories in the destination address:
		• **bootflash:**
		• **debug:**
		• **ftp:**
		• **log:**
		• **modflash:**
		• **nvram:**
		• **scp:**
		• **sftp:**
		• **system:**
		• **tftp:**
		• **volatile:**

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to copy a file from a remote bottflash directory to a local bootflash directory:

```
vsg# copy bootflash://jsmith@209.193.10.10/ws/jsmith-sjc/vsg-dplug.bin bootflash:/
```

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Related Commands

Command	Description
copy volatile:	Copies files from the volatile: directory.

copy core:

To copy files from the core directory, use the **copy core:** command.

copy core:<*//file-address*> *destination-address*

Syntax Description	*//file-address*	Address of the files to copy.
	destination-address	Address of the destination directory.
		Use one of the following directories in the destination address:
		• **bootflash:**
		• **ftp:**
		• **scp:**
		• **sftp:**
		• **tftp:**

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to copy a file from a remote core directory to a local volatile directory:

```
vsg# copy core://jjones@209.193.10.11/ps/jjones-rtg/vsgLog.txt volatile:/
```

Related Commandsv	Command	Description
	copy log:	Copies files from the log directory.

copy debug:

To copy files from the debug directory, use the **copy debug:** command.

copy debug:<*//file-address*> *destination-address*

Syntax Description	**debug:**//*file-address*	Address of the files to copy.
	destination-address	Address of the destination directory.
		Use one of the following directories in the destination address:
		• **bootflash:**
		• **debug:**
		• **ftp:**
		• **log:**
		• **modflash:**
		• **nvram:**
		• **scp:**
		• **sftp:**
		• **system:**
		• **tftp:**
		• **volatile:**

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to copy a file from a remote debug directory to a local volatile directory:

```
vsg# copy debug://jjones@209.193.10.11/ps/jjones-rtg/vsgLog.txt volatile:/
```

■   copy debug:

Related Commandsv	Command	Description
	copy bootflash:	Copies files from the bootflash directory.

copy ftp:

To copy files from the FTP directory, use the **copy ftp:** command.

copy ftp://*file-address destination-address*

Syntax Description	*//file-address*	Address of the files to copy.
	destination-address	The address of the destination directory.
		Use one of the following directories in the destination address:
		• **bootflash:**
		• **debug:**
		• **log:**
		• **modflash:**
		• **nvram:**
		• **system:**
		• **volatile:**

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to transfer a file from a remote FTP directory to a local bootflash directory:

```
vsg# copy ftp://jjones@209.193.10.11/ps/jjones-rtg/vsg-dplug.bin bootflash:/
```

Related Commandsv	Command	Description
	copy sftp:	Copies the files from the SFTP directory.

copy log:

To copy files from the log directory, use the **copy log:** command.

copy log://*file-address destination-address*

Syntax Description	//*file-address*	Address of the files to copy.
	destination-address	Address of the destination directory.
		Use one of the following directories in the destination address:
		• **bootflash:**
		• **debug:**
		• **ftp:**
		• **log:**
		• **modflash:**
		• **nvram:**
		• **scp:**
		• **sftp:**
		• **system:**
		• **tftp:**
		• **volatile:**

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to copy files from a remote log directory to a local volatile directory:

```
vsg# copy log://jjones@209.193.10.11/ps/jjones-rtg/vsgLog.txt volatile:/
```

Related Commandsv	Command	Description
	copy debug:	Copies files from the debug directory.

copy modflash:

To copy files from the modflash directory, use the **copy modflash:** command.

copy modflash:<*///file-address*> *destination-address*

Syntax Description	*///file-address*	Address of the files to copy.
	destination-address	Address of the destination directory.
		Use one of the following directories in the destination address:
		• **bootflash:**
		• **debug:**
		• **ftp:**
		• **log:**
		• **modflash:**
		• **nvram:**
		• **scp:**
		• **sftp:**
		• **system:**
		• **tftp:**
		• **volatile:**

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to copy files from a remote modflash directory to a local volatile directory:

```
vsg# copy modflash://jsmith@209.193.10.10/ws/jsmith-sjc/vsg-mod.bin volatile:/
```

Related Commandsv	Command	Description
	copy nvram:	Copies files from the NVRAM directory.

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copy nvram:

To copy files from the NVRAM directory, use the **copy nvram:** command.

copy nvram://*file-address destination-address*

Syntax Description	//*file-address*	Address of the NVRAM files to copy.
	destination-address	Address of the destination directory.
		Use one of the following directories in the destination address:
		• **bootflash:**
		• **debug:**
		• **ftp:**
		• **log:**
		• **modflash:**
		• **nvram:**
		• **scp:**
		• **sftp:**
		• **system:**
		• **tftp:**
		• **volatile:**

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to copy files from a remote NVRAM directory to a local volatile directory:

```
vsg# copy nvram://jsmith@209.193.10.10/ws/jsmith-sjc/vsg-ram.bin volatile:/
```

Send document comments to vsg-docfeedback@cisco.com.

Related Commands	Command	Description
	copy modflash:	Copies files from a modflash directory.

copy running-config

To copy the running configuration, use the **copy running-config** command.

copy running-config *destination-address* [**all-vdc**]

Syntax Description	*destination-address*	Address of the destination directory.
		Use one of the following directories in the destination address:
		• **bootflash:**
		• **ftp:**
		• **nvram:**
		• **scp:**
		• **sftp:**
		• **tftp:**
		• **volatile:**
	all-vdc	Copies to all VDCs.

Defaults   None

Command Modes   EXEC

Global configuration

SupportedUserRoles   network-admin

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to copy the running configuration to the bootflash directory:

```
vsg# copy running-config bootflash:
```

Related Commandsv	Command	Description
	copy startup-config	Copies a startup configuration to a specified destination.

copy scp:

To copy files from the SCP directory, use the **copy scp:** command.

copy scp://*file-address destination-address*

Syntax Description	*//file-address*	Address of the files to copy.
	destination-address	Address of the destination directory.
		Use one of the following directories in the destination address:
		• **bootflash:**
		• **debug:**
		• **log:**
		• **modflash:**
		• **nvram:**
		• **running-config**
		• **startup-config**
		• **system:**
		• **volatile:**

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to copy files from a remote SCP directory to a local volatile directory:

```
vsg# copy scp://jjones@209.193.10.11/ps/jjones-rtg/vsg-dplug.bin volatile:/
```

Related Commandsv	Command	Description
	copy sftp:	Copies files from the SFTP directory.

copy sftp:

To copy files from the SFTP directory, use the **copy sftp:** command.

copy sftp://*file-address destination-address*

Syntax Description	*//file-address*	Address of the files to copy.
	destination-address	Address of the destination directory.
		Use one of the following directories in the destination address:
		• **bootflash:**
		• **debug:**
		• **log:**
		• **modflash:**
		• **nvram:**
		• **system:**
		• **volatile:**

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to transfer a file from a remote SFTP directory to a local bootflash directory:

vsg# **copy sftp://jjones@209.193.10.11/ps/jjones-rtg/vsg-dplug.bin bootflash:/**

Related Commandsv

Command	Description
copy tftp:	Copies files from the TFTP directory.

copy startup-config

To copy the startup configuration, use the **copy startup-config** command.

copy startup-config *destination-address* [**all-vdc**]

Syntax Description

destination-address	Address of the destination directory.
	Use one of the following directories in the destination address:
	• **bootflash:**
	• **ftp:**
	• **nvram:**
	• **scp:**
	• **sftp:**
	• **tftp:**
	• **volatile:**
all-vdc	Copies to all VDCs.

Defaults   None

Command Modes   EXEC

Global configuration

SupportedUserRoles   network-admin

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to copy the startup configuration to the bootflash directory:

```
vsg# copy startup-config bootflash:
```

Related Commandsv

Command	Description
copy running-config	Copies a running configuration to a specified destination.

copy system:

To copy files from the file directory, use the **copy system:** command.

copy system://*file-address destination-address*

Syntax Description	*//file-address*	Address of the files to copy.
	destination-address	Address of the destination directory.
		You use one of the following directories in the destination address:
		• **bootflash:**
		• **debug:**
		• **ftp:**
		• **log:**
		• **modflash:**
		• **nvram:**
		• **scp:**
		• **sftp:**
		• **system:**
		• **tftp:**
		• **volatile:**

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to copy files from a remote file directory to a local bootflash directory:

```
vsg# copy system://pkim@209.193.10.12/ps/pkim-rich/vsg-dplug.bin bootflash:/
```

Related Commands	Command	Description
	copy bootflash:	Copies files to the bootflash directory.

copy tftp:

To copy files from the TFTP directory, use the **copy tftp:** command.

copy tftp:*//file-address destination-address*

Syntax Description

//file-address	Address of the files to copy.
destination-address	Address of the destination directory.
	Use one of the following directories in the destination address:

- **bootflash:**
- **debug:**
- **log:**
- **modflash:**
- **nvram:**
- **system:**
- **volatile:**

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to copy files from a remote TFTP directory to a local bootflash directory:

```
vsg# copy tftp://jjones@209.193.10.11/ps/jjones-rtg/vsg-dplug.bin bootflash:/
```

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Related Commandsv	Command	Description
	copy sftp:	Copies files from the SFTP directory.

■   copy volatile:

copy volatile:

To copy files from the volatile directory, use the **copy volatile:** command.

copy volatile://*file-address destination-address*

Syntax Description	*//file-address*	Address of the file to copy.
	destination-address	Address of the destination directory.
		Use one of the following directories in the destination address:
		• **bootflash:**
		• **debug:**
		• **ftp:**
		• **log:**
		• **modflash:**
		• **nvram:**
		• **scp:**
		• **sftp:**
		• **system:**
		• **tftp:**
		• **volatile:**

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Examples   This example shows how to copy files from a remote volatile directory to a local bootflash directory:

```
vsg# copy volatile://jsmith@209.193.10.10/ws/jsmith-sjc/vsg-dplug.bin bootflash:/
```

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Related Commands	Command	Description
	copy bootflash:	Copies files from the bootflash directory.

debug logfile (here)

To direct the output of the **debug** command to a specified file, use the **debug logfile** command. To revert to the default, use the **no** form of the command.

debug logfile *filename* [**size** *bytes*]

no debug logfile *filename* [**size** *bytes*]

Syntax Description	*filename*	Name of the file for **debug** command output. The filename is alphanumeric, case sensitive, and has a maximum of 64 characters.
	size	(Optional) Specifies the size of the logfile in bytes.
	bytes	(Optional) Bytes. The range is from 4096 to 10485760.

Defaults

Default filename: syslogd_debugs

Default file size: 10485760 bytes

Command Modes

EXEC

Global configuration (config)

SupportedUserRoles

network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines

The logfile is created in the log: file system root directory.

Use the **dir log:** command to display the log files.

Examples

This example shows how to specify a debug logfile:

```
vsg# debug logfile debug_log
```

This example shows how to revert to the default debug logfile:

```
vsg# no debug logfile debug_log
```

Related Commands

Command	Description
dir	Displays the contents of a directory.
show debug	Displays the debug configuration.
show debug logfile	Displays the debug logfile contents.

debug logging

To enable **debug** command output logging, use the **debug logging** command. To disable debug logging, use the **no** form of this command.

debug logging

no debug logging

Syntax Description   This command has no arguments or keywords.

Defaults   Disabled

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to enable the output logging for the **debug** command:

```
vsg# debug logging
```

This example shows how to disable the output logging for the **debug** command:

```
vsg# no debug logging
```

Related Commands

Command	Description
debug logfile	Configures the logfile for the **debug** command output.

delete

To delete, use the **delete** command.

delete {**bootflash:** | **debug:** | **log:** | **modflash:** | **volatile:**}

Syntax Description		
bootflash:	Bootflash directory.
debug:	Debug directory.
log:	Log directory.
modflash:	Modflash directory.
volatile:	Volatile directory.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to delete:

```
vsg# delete bootflash:
```

Related Commands	Command	Description
	copy	Copies files to directories.

dir

To display the contents of a directory or file, use the **dir** command.

dir [**bootflash:** | **debug:** | **log:** | **modflash:** | **volatile:**]

Syntax Description	bootflash:	(Optional) Directory or filename.
	debug:	(Optional) Directory or filename on expansion flash.
	log:	(Optional) Directory or filename on log flash.
	modflash:	(Optional) Directory or filename on module flash.
	volatile:	(Optional) Directory or filename on volatile flash.

Defaults None

Command Modes EXEC

Global configuration (config)

SupportedUserRoles network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines Use the **pwd** command to identify the directory you are currently working in.

Use the **cd** command to change the directory you are currently working in.

Examples This example shows how to display the contents of the bootflash: directory

```
vsg# dir bootflash:
```

Related Commands	Command	Description
	cd	Changes the current working directory.
	pwd	Displays the current working directory.

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echo

To echo an argument back to the terminal screen, use the **echo** command.

echo [**backslash-interpret**] [*text*]

Syntax Description

-e	(Optional) Interprets any character following a backslash character (\) as a formatting option.
backslash-interpret	(Optional) Interprets any character following a backslash character (\) as a formatting option.
text	(Optional) Text string to display. The text string is alphanumeric, case sensitive, can contain spaces, and has a maximum length of 200 characters. The text string can also contain references to CLI variables.

Defaults   Displays a blank line.

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   You can use this command in a command script to display information while the script is running.

Table 1 lists the formatting keywords that you can insert in the text when you include the **-e** or **backslash-interpret** keyword.

Table 1   Formatting Options for the echo Command

Formatting Option	Description
\b	Back spaces.
\c	Removes the new line character at the end of the text string.
\f	Inserts a form feed character.
\n	Inserts a new line character.
\r	Returns to the beginning of the text line.
\t	Inserts a horizontal tab character.

Table 1   ***Formatting Options for the echo Command (continued)***

Formatting Option	Description
\v	Inserts a vertical tab character.
****	Displays a backslash character.
nnn	Displays the corresponding ASCII octal character.

Examples

This example shows how to display a blank line at the command prompt:

```
vsg# echo
vsg#
```

This example shows how to display a line of text at the command prompt:

```
vsg# echo Script run at $(TIMESTAMP).
Script run at 2008-08-12-23.29.24.
vsg#
```

This example shows how to use a formatting option in the text string:

```
vsg# echo backslash-interpret This is line #1. \nThis is line #2.
This is line #1.
This is line #2.
vsg#
```

Related Commands

Command	Description
run-script	Runs command scripts.

end

To return to EXEC mode from any lower-level mode, use the **end** command.

end

Syntax Description   This command has no arguments or keywords.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to enter VNMC policy agent mode and then how to return to EXEC mode:

```
vsg# configure
VSG(config)# vnm-policy-agent
VSG(config-vnm-policy-agent)#
vsg(config-vnm-policy-agent)# end
vsg#
```

Related Commands

Command	Description
configure	Enters configuration mode.

event

To clear the event counter, use the **event** command.

event manager clear counter *counter-name*

Syntax Description		
event manager	Palces you in the event manager.	
clear counter	Clears the counter.	
counter-name	Counter name. The text string is alphanumeric, case sensitive, can contain spaces, and has a maximum length of 28 characters.	

Defaults

Displays a blank line.

Command Modes

EXEC

Global configuration (config)

SupportedUserRoles

network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines

None

Examples

This example shows how to clear the event counter:

```
vsg# event manager clear counter default
```

Related Commands	Command	Description
	show event	Displays event information.

exit

To exit the current mode, use the **exit** command.

exit

Syntax Description   This command has no arguments or keywords.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to exit the current mode:

```
vsg(config)# exit
vsg#
```

Related Commands

Command	Description
end	Places you in EXEC mode.

find

To find file names beginning with a character string, use the **find** command.

> **find** *filename-prefix*

Syntax Description	*filename-prefix*	First part or all of a filename. The filename prefix is case sensitive.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   The **find** command searches all subdirectories under the current working directory. You can use the **cd** and **pwd** commands to navigate to the starting directory.

Examples   This example shows how to find a file name prefix:

```
vsg# find a
```

Related Commands	Command	Description
	pwd	Lists the directory you are currently in.

gunzip

To uncompress a compressed file, use the **gunzip** command.

gunzip *filename*

Syntax Description	*filename*	Name of the file.

Defaults None

Command Modes EXEC

Global configuration (config)

SupportedUserRoles network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines The compressed filename must have the .gz extension.

You do not have to enter the .gz extension as part of the filename.

The Cisco NX-OS software uses Lempel-Ziv 1977 (LZ77) coding for compression.

Examples This example shows how to uncompress a compressed file:

```
vsg# gunzip run_cnfg.cfg
```

Related Commands	Command	Description
	dir	Displays the directory contents.
	gzip	Compresses a file.

Chapter 2   Cisco Virtual Security Gateway Commands

gzip

gzip

To compress a file, use the **gzip** command.

gzip *filename*

Syntax Description	*filename*	File name.

Defaults None

Command Modes EXEC
Global configuration (config)

SupportedUserRoles network-admin
network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines After you use this command, the file is replaced with the compressed filename that has the .gz extension.

The Cisco NX-OS software uses Lempel-Ziv 1977 (LZ77) coding for compression.

Examples This example shows how to compress a file:

```
vsg# gzip run_cnfg.cfg
```

Related Commands

Command	Description
dir	Displays the directory contents.
gunzip	Uncompresses a compressed file.

Cisco Virtual Security Gateway for Nexus 1000V Series Switch Command Reference, Release 4.2(1)VSG1(1)

2-128

OL-23953-02

install

To install an image upgrade, use the **install** command.

install all {**iso** | **kickstart**}

Syntax Description

iso	ISO image.
kickstart	Kickstart image.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to install an ISO image upgrade:

```
vsg# install all iso bootflash://smith@209.165.200.226/test
```

Related Commands

Command	Description
show install	Show the software installation impact between two images.

interface

To configure an interface on the VSG, use the **interface** command in the configuration mode. To remove an interface, use the **no** form of the command.

   interface {**data** | **ethernet** | **loopback** | **mgmt** | **port-channel**}

   no interface {**data** | **ethernet** | **loopback** | **mgmt** | **port-channel**}

Syntax Description

data *number*	Specifies data interface number. The number is 0.
ethernet *slot/port*	Specifies the slot and port number for the Ethernet interface.
loopback *number*	Specifies a virtual interface number. The range is 0 to 1023.
mgmt *number*	Specifies the management interface number. The number is 0.
port-channel *channel-number*	Specifies a port-channel interface number. The range is 0 to 1023.

Defaults   None

Command Modes   Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to configure an interface:

```
vsg# interface data 0
```

This example shows how to remove an interface:

```
vsg# no interface data 0
```

Related Commands

Command	Description
show interface	Displays interface and IP details, including Rx and Tx packets or bytes.

ip

To configure IP details, use the **ip** command in the configuration mode. To revert to default settings, use the **no** form of this command.

ip {**access-list match-local-traffic** | **arp timeout** | **domain-list** | **domain-lookup** | **host** | **igmp** | **name-server** | **route** | **routing event-history** | **tcp** | **tftp path-mtu-discovery**}

no ip {**access-list match-local-traffic** | **arp timeout** | **domain-list** | **domain-lookup** | **host** | **igmp** | **name-server** | **route** | **routing event-history** | **tcp** | **tftp path-mtu-discovery**}

Defaults

access-list match-local-traffic	Specifies the access-list matching for locally generated traffic.
arp timeout *seconds*	Specifies the arp timeout. The range is 60 to 28800.
domain-list *name*	Specifies an additional domain name. The maximum is 64 characters.
domain-lookup	Enables or disables DNS.
host *name*	Specifies an entry to the IP hostname table.
igmp	Spccifies event-history buffers or snooping in IGMP global configuration mode.
name-server	Specifies name-server address, IPv4 or IPv6.
route	Specifies the route IP prefix information.
routing event-history	Specifies the logs for routing events.
tcp	Configures global TCP parameters.
tftp path-mtu-discovery	Enables or disables path-MTU discovery on TPC.

Command Default   1500

Command Modes   Global configuration

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples

```
vsg# configure
vsg(config)# ip host testOne 209.165.200.231
```

Related Commands

Command	Description
show ip	Displays IP details.

line

To specify the line configuration, use the **line** command.

line {**com1** | **console** | **vty**}

Syntax Description

com1	Specifies the COM1 port and enters the COM1 port configuration mode.
console	Specifies the console port and enters the console port configuration mode.
vty	Specifies the virtual terminal and enters the line configuration mode.

Command Default   None

Command Modes   Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to enter the COM1 port configuration mode:

```
vsg(config)# line com1
vsg(config-com1)#
```

This example shows how to enter the console port configuration mode:

```
vsg(config)# line console
vsg(config-console)#
```

This example shows how to enter the line configuration mode:

```
vsg(config)# line vty
vsg(config-line)#
```

Related Commands

Command	Description
show line	Displays information about the COM1 port, console port configuration, and the line configuration.

logging

To configure logging, use the **logging** command.

> **logging** { **abort** | **commit** | **console** | **distribute** | **event** | **level** | **logfile** | **module** | **monitor** | **server** | **source-interface loopback** | **timestamp** }

Syntax Description

abort	Discards the logging CFS distribution session in progress without commiting, and then releases the lock.
commit	Applies the pending configuration pertaining to the logging CFS distribution session in progress in the fabric, and then releases the lock.
console *serverity-level*	Enables logging messages to the console session. To disable, use **no logging console**. The range is 0 to 7.
distribute	Enables fabric distribution using CFS distribution for logging. To disable, use **no logging distribute**.
event	Logs interface events. To disable, use **no logging event**.
level	Enables logging of messages from a named facility at a specified severity level. To disable, use **no logging level**.
logfile *name*	Configures the specified log file that stores system messages. To disable, use **no logging logfile**.
module *serverity-level*	Starts logging of module messages to the log file. To disable, use **no logging module**. The range is 0 to 7.
monitor *serverity-level*	Enables the logging of messages to the monitor (terminal line). To disable, use **no logging monitor**. The range is 0 to 7.
server	Designates and configures a remote server for logging system messages. Todisable, use **no logging server**.
source-interface loopback *number*	Enables a source interface for the remote syslog server, To disable, use **no logging source-interface**. The range is 0 to 1023.
timestamp *time-type*	Sets the unit of time used for the system messages timestamp, in microseconds, milliseconds, or seconds. To disable, use **no logging timestamp**.

Defaults   None

Command Modes   Global configuration (config)

Supported User Roles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to discard logging CFS distribution session in progress:

```
vsg# configure
vsg(config)# logging abort
vsg(config)#
```

Related Commands

Command	Description
show logging	Displays logging information.

mkdir (VSG)

To create a new directory, use the **mkdir** command.

mkdir {**bootflash:** | **debug:** | **modflash:** | **volatile:**}

Syntax Description

bootflash:	Specifies bootflash: as the directory name.
debug:	Specifies debug: as the directory name.
modflash:	Specifies modflash: as the directory name.
volatile:	Specifies volatile: as the directory name.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

Command History

Release	Modification
4.0(4)SV1(1)	This command was introduced.
4.2(1)VSG1(1)	This command was introduced for the VSG.

Usage Guidelines   None

Examples   This example shows how to create the bootflash: directory:

```
vsg# mkdir bootflash:
```

Related Commands

Command	Description
cd	Changes the current working directory.
dir	Displays the directory contents.
pwd	Displays the name of the current working directory.

ntp sync-retry (VSG)

To retry synchronization with configured servers, use the **ntp sync-retry** command. To stop this process, use the **no** version of this command.

ntp sync-retry

no ntp sync-retry

Syntax Description	This command has no arguments or keywords.

Defaults	Enabled

Command Modes	EXEC
	Global configuration (config)

SupportedUserRoles	network-admin

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced for the VSG.

Usage Guidelines	None

Examples

This example shows how to enable the NTP synchronization retry:

```
vsg# ntp sync-retry
```

This example shows how to disable the NTP synchronization retry:

```
vsg# no ntp sync-retry
```

Related Commands

Command	Description
show clock	Displays the time and date.

password strength-check

To enable password strength checking, use the **password strength-check** command. To disable the password strength checking, use the **no** form of this command.

password strength-check

no password strength-check

Syntax Description	This command has no arguments or keywords.

Defaults	This feature is enabled by default.

Command Modes	Global configuration (config)

SupportedUserRoles	network-admin
	network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines	None

Examples

This example shows how to enable the checking of password strength:

```
vsg# config t
vsg(config)# password strength-check
vsg(config)#
```

This example shows how to disable the checking of password strength:

```
vsg# config t
vsg(config)# no password strength-check
vsg(config)#
```

Related Commands

Command	Description
show password strength-check	Displays the configuration for checking password strength.
username	Creates a user account.
role name	Names a user role and places you in role configuration mode for that role.

pwd

To view the current directory, use the **pwd** command.

pwd

Syntax Description

This command has no arguments or keywords.

Defaults

None

Command Modes

EXEC

Global configuration (config)

Supported UserRoles

network-admin

network-operator

Command History

Release	Modification
4.0(4)SV1(1)	This command was introduced.
4.2(1)VSG1(1)	This command was introduced for the VSG.

Usage Guidelines

None

Examples

This example shows how to view the current directory:

```
vsg# pwd
bootflash:
vsg#
```

Related Commands

Command	Description
cd	Changes the current directory.

role

To configure a user role, use the **role** command. To delete a user role, use the **no** form of the command.

role { **feature-group** *feature-group-name* | **name** {*name* | **network-observer**}}

no role { **feature-group** *name* | [**name** *name* | *network-observer*] }

Syntax Description

feature-group *name*	Specifies a role feature-group. The name can be any alphanumeric string up to 32 characters.
name *name*	Specifies the role name. The name can be any alphanumeric string up to 16 characters.
network-observer	Specifies the user role.

Defaults   This feature is enabled by default.

Command Modes   Global configuration

SupportedUserRoles   network-admin
network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to configure a user role for a feature group:

```
vsg# configure
vsg(config)# role feature-group name abc
vsg(config-role-featuregrp)#
```

Related Commands

Command	Description
show role	Displays the role configuration.
role name	Names a user role and places you in role configuration mode for that role.

reload

To reboot both the primary and secondary VSG in a redundant pair, use the **reload** command.

reload

Syntax Description   This command has no arguments or keywords.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

Command History

Release	Modification
4.0(4)SV1(1)	This command was introduced.
4.2(1)VSG1(1)	This command was introduced for the VSG.

Usage Guidelines   To reboot only one of the VSGs in a redundant pair, use the **reload module** command instead.

Before reloading, use the **copy running-configuration to startup-configuration** command to preserve any configuration changes made since the previous reboot or restart.

After reloading it, you must manually restart the VSG.

Examples   This example shows how to reload both the primary and secondary VSG:

```
vsg(config)# reload
!!!WARNING! there is unsaved configuration!!!
This command will reboot the system. (y/n)?  [n] y
2010 Dec 20 11:33:35 bl-vsg %PLATFORM-2-PFM_SYSTEM_RESET: Manual system restart from
Command Line Interface
```

Related Commands

Command	Description
reload module	Reloads the specified VSG (1 or 2) in a redundant pair.

reload module

To reload one of the VSGs in a redundant pair, use the **reload module** command.

reload module *module* [**force-dnld**]

Syntax Description

module	The module number:
	• 1 (primary VSG)
	• 2 (secondary VSG)
force-dnld	(Optional) Reboots the specified module to force NetBoot and image download.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

Command History

Release	Modification
4.0(4)SV1(1)	This command was introduced.
4.2(1)VSG1(1)	This command was introduced for the VSG.

Usage Guidelines   To reboot both the VSGs in a redundant pair, use the **reload** command instead.

Before reloading, use the **copy running-configuration to startup-configuration** command to preserve any configuration changes made since the previous reboot or restart.

After reloading it, you must manually restart the VSG.

Examples   This example shows how to reload VSG 2, the secondary VSG in a redundant pair:

```
vsg# reload module 2
!!!WARNING! there is unsaved configuration!!!
This command will reboot the system. (y/n)?  [n] y
2010 Dec 20 11:33:35 bl-vsg %PLATFORM-2-PFM_SYSTEM_RESET: Manual system restart from
Command Line Interface
```

Related Commands	Command	Description
	show version	Displays information about the software version.
	reload	Reboots both the primary and secondary VSG.

restart

To manually restart a component, use the **restart** command. To disable manual restart, use the **no** version of this command.

restart

no restart

Syntax Description   There are no keywords or arguments for this command.

Command Default   Disabled

Command Modes   EXEC

SupportedUserRoles   network-admin

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   Do not use this command unless you are absolutely certain that there is no one else using the system.

Examples   This example shows how to restart:

```
vsg# restart
```

Related Commands

Command	Description
reload	Reboots the entire device.

rmdir (VSG)

To remove a directory, use the **rmdir** command.

rmdir {**bootflash:** | **debug:** | **modflash:** | **volatile:**}

Syntax Description

bootflash:	Deletes the bootflash: directory.
debug:	Deletes the debug: directory.
modflash:	Deletes the modflash: directory.
volatile:	Deletes the volatile: directory.

Defaults Removes the directory from the current working directory.

Command Modes EXEC

Global configuration (config)

SupportedUserRoles network-admin

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines None

Examples This example shows how to remove the bootflash directory:

```
vsg# rmdir bootflash:
```

Related Commands

Command	Description
cd	Changes the current working directory.
dir	Displays the directory contents.
pwd	Displays the name of the current working directory.

run-script (VSG)

To run a command script that is saved in a file, use the **run-script** command.

run-script [**bootflash:** [**>** [**bootflash:** | **ftp:** | **scp:** | **sftp:** | **tftp:** | **volatile:**] | **>>** [**bootflash:** | **ftp:** |
    scp: | **sftp:** | **tftp:** | **volatile:**] | | [**cut** | **diff** | **egrep** | **grep** | **head** | **human** | **last** | **less** | **no-more** |
    sed | **sort** | **sscp** | **tr** | **uniq** | **vsh** | **wc** | **xml** | **begin** | **count** | **end** | **exclude** | **include**] | **volatile:**
    [**>** [**bootflash:** | **ftp:** | **scp:** | **sftp:** | **tftp:** | **volatile:**] | **>>** [**bootflash:** | **ftp:** | **scp:** | **sftp:** | **tftp:** |
    volatile:] | | [**cut** | **diff** | **egrep** | **grep** | **head** | **human** | **last** | **less** | **no-more** | **sed** | **sort** | **sscp** | **tr**
    | **uniq** | **vsh** | **wc** | **xml** | **begin** | **count** | **end** | **exclude** | **include**]] [*filename*]

Syntax Description		
bootflash:	Indicates that the file conta] ining the command script is located in the bootflash file system.	
volatile:	Indicates that the file containing the command script is located in the volatile file system.	
filename	The name of the file containing the command script. The name is case sensitive.	
>	Redirects the output to a file.	
>>	Redirects the output to a file in append mode.	
|	Pipes the command output to a filter.	
bootflash:	Designates the destination filesystem path; in this case, the bootflash: directory.	
ftp:	Designates the destination filesystem path; in this case, the ftp: directory.	
scp:	Designates the destination filesystem path; in this case, the scp: directory.	
sftp:	Designates the destination filesystem path; in this case, the sftp: directory.	
tftp:	Designates the destination filesystem path; in this case, the tftp: directory.	
volatile:	Designates the destination filesystem path; in this case, the volatile: directory.	
cut	Prints selected parts of lines.	
diff	Shows difference between current and previous invocation (creates temp files— remove them with the **diff-clean** command and do not use it on commands with big outputs, such as **show tech**)	
egrep	Prints lines matching a pattern.	
grep	Prints lines matching a pattern.	
head	Displays only the first lines.	
human	Provides command output in human format (if permanently set to XML, otherwise it turns on XML for the next command.	
last	Displays only the last lines.	
less	Designates filter for paging.	
no-more	Turns off the pagination for command output.	
sed	Enables the stream editor (SED).	
sort	Enables the stream sorter.	
sscp	Enables the stream secure copy (SSCP).	
tr	Translates, squeezes, and/or deletes characters.	
uniq	Discards all but one of successive identical lines.	
vsh	Enables the shell that understands CLI commands.	

wc	Enables word count, line count, and character count.
xml	Enables output in XML format (according to .xsd definitions).
begin	Begins with the line that matches the variable included after the command keyword.
count	Enables count of the number of lines.
end	Ends display with the line that matches the string input after the command keyword.
exclude	Excludes the lines that match the string input after the command keyword.
include	Includes the lines that match the string input after the command keyword.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to run a command script that is saved in a file called Sample:

```
vsg(config)# run-script volatile:Sample
```

Related Commands

Command	Description
cd	Changes the current working directory.
copy	Copies files.
dir	Displays the contents of the working directory.
pwd	Displays the name of the present working directory (pwd).

send

To send a message to an open session, use the **send** command.

send {*message* | **session** *device message*}

Syntax Description		
message	Message.	
session	Specifies a specific session.	
device	Device type.	

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to send a message to an open session:

```
vsg# send session sessionOne testing
vsg#
```

Related Commands	Command	Description
	show banner	Displays a banner.

setup

To use the Basic System Configuration Dialog for creating or modifying a configuration file, use the **setup** command.

setup

Syntax Description   This command has no arguments or keywords, but the Basic System Configuration Dialog prompts you for complete setup information (see the example below).

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   The Basic System Configuration Dialog assumes the factory defaults. Keep this in mind when using it to modify an existing configuration.

All changes made to your configuration are summarized for you at the completion of the setup sequence with an option to save the changes or not.

You can exit the setup sequence at any point by pressing Ctrl-C.

Examples   This example shows how to use the setup command to create or modify a basic system configuration:

```
vsg# setup

  Enter the domain id<1-4095>: 400

  Enter HA role[standalone/primary/secondary]: standalone

[######################################] 100%


        ---- Basic System Configuration Dialog ----

This setup utility will guide you through the basic configuration of
the system. Setup configures only enough connectivity for management
of the system.
```

```
*Note: setup is mainly used for configuring the system initially,
when no configuration is present. So setup always assumes system
defaults and not the current system configuration values.

Press Enter at anytime to skip a dialog. Use ctrl-c at anytime
to skip the remaining dialogs.

Would you like to enter the basic configuration dialog (yes/no): y

  Create another login account (yes/no) [n]: n

  Configure read-only SNMP community string (yes/no) [n]: n

  Configure read-write SNMP community string (yes/no) [n]: n

  Enter the vsg name : vsg

  Continue with Out-of-band (mgmt0) management configuration? (yes/no) [y]:

    Mgmt0 IPv4 address :

  Configure the default gateway? (yes/no) [y]: n

  Configure advanced IP options? (yes/no) [n]:

  Enable the telnet service? (yes/no) [y]:

  Enable the ssh service? (yes/no) [n]:

  Configure the ntp server? (yes/no) [n]:

  Configure vem feature level? (yes/no) [n]:

  Configure svs domain parameters? (yes/no) [y]:

    Enter SVS Control mode (L2 / L3) : l2
    Invalid SVS Control Mode
    Enter SVS Control mode (L2 / L3) : L2
    Enter control vlan <1-3967, 4048-4093> : 400

    Enter packet vlan <1-3967, 4048-4093> : 405

The following configuration will be applied:
  vsgname vsg
  telnet server enable
  no ssh server enable
  svs-domain
    svs mode L2
    control vlan 400
    packet vlan 405
    domain id 400
vlan 400
vlan 405

Would you like to edit the configuration? (yes/no) [n]:

Use this configuration and save it? (yes/no) [y]: n

vsgvsgvsg#
```

Related Commands

Command	Description
show running-config	Displays the running configuration.

sleep

To set a sleep time, use the **sleep** command.

sleep *time*

Syntax Description	*time*	Sleep time, in seconds. The range is from 0 to 2147483647.

Defaults   Sleep time is not set.

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   When you set *time* to 0, sleep is disabled.

Examples   This example shows how to set a sleep time:

```
vsg# sleep 100
vsg#
```

This example shows how to disable sleep:

```
vsg# sleep 0
vsg#
```

Related Commands

Command	Description
reload	Reboots VSG.

snmp-server

To configure the Simple Network Management Protocol (SNMP) values, use the **snmp-server** command. To revert to default, use the **no** form of this command.

> **snmp-server** { **aaa-user cache-timeout** | **community** | **contact** | **context** | **counter** | **enable traps** | **globalEnforcePriv** | **host** | **location** | **mib** | **protocol** | **source-interface** | **tcp-session auth** | **user** }

> **no snmp-server** { **aaa-user cache-timeout** | **community** | **contact** | **context** | **counter** | **enable traps** | **globalEnforcePriv** | **host** | **location** | **mib** | **protocol** | **source-interface** | **tcp-session auth** | **user** }

Syntax Description		
aaa-user cache-timeout *seconds*	Configures SNMP time-out value for synchronized AAA users. To revert to default, use **no snmp-server aaa-user cache-timeout**. The range is 1 to 86400.	
community *word*	Create an SNMP community name and assign access privileges for the community. To remove the community or it's access privileges, use **no snmp-server community**. The maximum number of characters is 32.	
contact	Configure the sysContact, which is the SNMP contact name. To remove or modify the sysContact, use **no snmp-server contact**.	
context *word*	Configures SNMP context name to logical network entity mapping. To remove the context, use **no snmp-server context**. The maximum number of characters is 32.	
counter	Enables the SNMP cache counter and sets the timeout. To remove the counter, use **no snmp-server counter**.	
enable traps	Enables SNMP notifications for traps of module notifications. To disable, use **no snmp-server enable traps**.	
globalEnforcePriv	Globally enforces privacy for all SNMP users. To disable, use **no snmp-server globalEnforcePriv**.	
host	Configures a host receiver for SNMPv1 or SNMPv2c traps. To remove the host, use **no snmp-server host.**	
location *name*	Configures the sysLocation, which is the SNMP location name. To remove the sysLocation, use **no snmp-server location**. The maximum number of characters is 32.	
mib community-map *name*	Configures the SNMP mib community-map. To remove, use **no snmp-server mib community-map**. The maximum number of characters is 32.	
protocol	Enables SNMP protocol operations. To disable, use **no snmp-server protocol**.	
source-interface	Configure the SNMP source interface through which notifications are sent. To remove the notifications, use **no snmp-server source-interface**.	
tcp-session auth	Enables a one-time authentication for SNMP over a TCP session. To disable authentication, use **no snmp-server tcp-session auth**.	
user *name*	Defines a user who can access the SNMP engine. To deny access, use **no snmp-server user**. The maximum number of characters is 32.	

Command Default   None

Command Modes   Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to configure the AAA user synchronization timeout value:

```
vsg# configure
vsg(config)# snmp-server aaa-user cache-timeout 6000
vsg(config)#
```

Related Commands

Command	Description
show snmp	Displays information about SNMP.

ssh

To create a Secure Shell (SSH) session, use the **ssh** command.

ssh {*hostrname*| **connect** | **name**}

Syntax Description		
	hostname	Hostname or user@hostname for the SSH session. The hostname is not case sensitive. The maximum number of characters is 64.
	connect	Connects to a named remote host.
	name	Specifies name of SSH connection.

Defaults   None

Command Modes   EXEC

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   NX-OS software supports SSH version 2.

Examples   This example shows how to start an SSH session:

```
vsg# ssh 10.10.1.1 vrf management
The authenticity of host '10.10.1.1 (10.10.1.1)' can't be established.
RSA key fingerprint is 9b:d9:09:97:f6:40:76:89:05:15:42:6b:12:48:0f:d6.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '10.10.1.1' (RSA) to the list of known hosts.
User Access Verification
Password:
```

Related Commands	Command	Description
	clear ssh session	Clears SSH sessions.
	ssh server enable	Enables the SSH server.

ssh key

To generate an SSH session key with a specific security configuration, use the **ssh key** command.

ssh key {**dsa** | **rsa**}

Syntax Description

dsa	Generates DSA security keys. There is an option to force the generation of keys, even if the previous ones are present.
rsa *number*	Generates RSA security keys at a specified level of bits. The range is 768 to 2048.

Defaults

None

Command Modes

Global configuration

SupportedUserRoles

network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines

NX-OS software supports SSH version 2.

Examples

This example shows how to generate an SSH session key:

```
vsg# configure
vsg(config)# ssh key rsa 770
```

Related Commands

Command	Description
clear ssh session	Clears SSH sessions.
ssh server enable	Enables the SSH server.

Send document comments to vsg-docfeedback@cisco.com.

system clis

To generate event history, use the **system clis** command. To disable, use the **no** form of the command.

system clis event-history {**client** | **errors** | **ha** | **nvdb** | **parser**}

no system clis event-history {**client** | **errors** | **ha** | **nvdb** | **parser**}

Syntax Description	event-history	Generate event history logs for CLIs.
	client	Generates a client interaction event history log.
	errors	Generates an error event history log.
	ha	Generates an HA event history log.
	nvdb	Generates an NVDB and PSS event history log.
	parser	Generates a parser event history event log.

Command Default   None

Command Modes   Global configuration (config)

SupportedUserRoles   network-administrator

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to generate an error event history log:

```
vsg# system clis event-history errors
```

Related Commands	Command	Description
	show system clis event-history	Displays the event history of the Cli servers.

system cores

To copy cores to a destination, use the **system cores** command. To disable, use the **no** form of the command.

system cores tftp://<*server*>**@**<*ip-address*>

no system cores tftp://<*server*>**@**<*ip-address*>

Syntax Description	tftp:	Specifies TFTP protocol.
	server	Destination server.
	ip-address	Destination IP address.

Command Default None

Command Modes Global configuration (config)

SupportedUserRoles network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines None

Examples This example shows how to copy cores to a destination:

```
vsg# system cores tftp://jjones@209.165.200.229
```

Related Commands	Command	Description
	show system cores	Displays core transfer option.

system default switchport

To return to system-level default values, use the **system default** command. To disable, use the **no** form of the command.

system default switchport [**shutdown**]

no system default switchport [**shutdown**]

Syntax Description	**shutdown**	Sets the admin state.

Command Default   None

Command Modes   Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to return to system-level default values:

```
vsg# system default switchport shutdown
```

Related Commands	Command	Description
	show system resources	Displays system resources.

system hap-reset

To reset local or remote supervisors after an HA failure, use the **system hap-reset** command. To disable, use the **n**o form of the command.

system hap-reset

system no hap-reset

Syntax Description	This command has no arguments or keywords.

Command Default	None

Command Modes	EXEC

SupportedUserRoles	network-admin
	network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines	None

Examples

This example shows how to switch over to the standby supervisor:

```
vsg# system hap-reset
```

Related Commands

Command	Description
show system redundancy	Displays the system redundancy status.

system health

To check system health, use the **system health** command.

> **system health check bootflash**

Syntax Description

check	Runs a consistency check on the compact flash.
bootflash	Checks the internal bootflash.

Command Default   None

Command Modes   EXEC

SupportedUserRoles   network-admin

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to check the system health:

```
vsg# system health check bootflash
```

Related Commands

Command	Description
show system resources	Displays system resources.

system heartbeat

To enable the system heartbeat, use the **system heartbeat** command. To disable system heartbeat, use the **no** form of the command.

> **system heartbeat**

> **system no heartbeat**

Syntax Description	This command has no arguments or keywords.
Command Default	None
Command Modes	EXEC
SupportedUserRoles	network-admin
	network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to enable the system heartbeat:

```
vsg# system heartbeat
```

Related Commands

Command	Description
system health	Checks the system health status.

system internal

To generate debug snapshots for services, use the **system internal** command.

system internal snapshot service *service-name*

Syntax Description	**snapshot**	Generates debug snapshots.
	service	Generates debug snapshot for a service.
	service-name	Service name.

Command Default None

Command Modes EXEC

SupportedUserRoles network-admin

network-operator

Command History	**Release**	**Modification**
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines None

Examples This example shows how to generate debug snapshots for services:

```
vsg# system internal snapshot service
```

Related Commands	**Command**	**Description**
	show system internal	Displays all internal commands.

system jumbomtu

To set MTUs to jumbo, use the **system jumbomtu** command.

system jumbomtu 9000

Syntax Description	9000	MTU size.

Command Default	None

Command Modes	Global configuration (config)

SupportedUserRoles	network-admin
	network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines	None

Examples	This example shows how to set MTUs to jumbo:

```
vsg# system jumbomtu 9000
```

Related Commands	Command	Description
	show system resources	Displays the system resource details.

system memlog

To generate a memory log in bootflash, use the **system memlog** command.

system memlog

Syntax Description   This command has no arguments or keywords.

Command Default   None

Command Modes   EXEC

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to generate a memory log in bootflash:

```
vsg# system memlog
```

Related Commands

Command	Description
show system memory-alerts-log	Displays a detailed log for memory alerts.
show system memory-status	Displays memory status information

system memory-thresholds

To set system memory thresholds, use the **system memory-thresholds** command.

system memory-thresholds {**minor** *minor-memory-threshold* **severe** *servere memory-threshold* **critical** *critical-memory-threshold* | **threshold critical no-process-kill**}

Syntax Description		
	minor	Sets the minor memory threshold.
	minor-memory-threshold	Enter the minor threshold as a percentage of memory. The range is 50 to 100.
	severe	Sets the severe memory threshold.
	servere memory-threshold	Enter the severe threshold as a percentage of memory. The range is 50 to 100.
	critical	Sets the critical memory threshold.
	critical-memory-threshold	Enter the critical threshold as a percentage of memory. The range is 50 to 100.
	threshold	Sets threshold behavior.
	critical	Sets the critical memory threshold.
	no-process-kill	Enables do not kill processes when out of memory.

Command Default   None

Command Modes   Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to set memory-threshold:

```
vsg# system memory-thresholds minor 60
```

Related Commands	Command	Description
	show system resources	Displays the system resources.

system pss

To shrink PSS files, use the **system pss** command.

> **system pss shrink**

Syntax Description	shrink	Shrinks the PSS files.

Command Default	None

Command Modes	EXEC

SupportedUserRoles	network-admin
	network-operator

Command History	**Release**	**Modification**
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines	None

Examples

This example shows how to shrink PSS files:

```
vsg# system shrink pss
```

Related Commands	**Command**	**Description**
	show system pss	Displays the PSS shrink status.

system redundancy

To set a system redundancy policy, use the **system redundancy** command.

system redundancy role {**primary** | **secondary** | **standalone**}

Syntax Description	role	Sets the redundancy role.
	primary	Specifies the primary redundant VSG.
	secondary	Specifies the secondary redundant VSG.
	standalone	Specifies no redundant VSG.

Command Default None

Command Modes EXEC

SupportedUserRoles network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines None

Examples This example shows how to set the redundancy role:

```
vsg# system redundancy role primary
```

Related Commands	Command	Description
	show system redundancy	Displays the system redundancy status.

system standby

To enable a system standby manual boot, use the **system standby** command. To disable a system standby manual boot, use the **no** form of the command.

system standby manual-boot

no system standby manual-boot

Syntax Description	**manual-boot**	Performs manual boot.

Command Default   None

Command Modes   EXEC

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to set a system standby manual boot:

```
vsg# system standby manual-boot
```

Related Commands	Command	Description
	show system standby	Displays the system standby manual boot option.

system startup-config

To initialize or unlock the system startup configuration, use the **system startup-config** command.

system startup-config {**init** | **unlock** *lock id*}

Syntax Description

init	Initilizes the startup configuration.
unlock	Unlocks the startup configuration.
lock id	Lock identification number. The range is 0 to 65536.

Command Default   None

Command Modes   EXEC

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to unlock the system startup configuration:

```
vsg# system startup-config unlock 1324
```

Related Commands

Command	Description
show startup-config	Displays startup system information.

Send document comments to vsg-docfeedback@cisco.com.

system statistics

To reset system statistics, use the **system statistics** command.

system statistics reset

Syntax Description   This command has no arguments or keywords.

Command Default   None

Command Modes   EXEC

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to reset the system statistics configuration:

```
vsg# system statistics reset
```

Related Commands

Command	Description
show system redundancy	Displays the system redundancy status.

system switchover

To switch over to the standby supervisor in EXEC mode, use the **system switchover** command.

   system switchover

To configure system switchover in configuration mode, use the **system switchover** command.

   system switchover {**ha** | **warm**}

Syntax Description		
ha	Enables high availability.	
warm	Enables warm switchover.	

Command Default   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to switch over to the standby supervisor:

```
vsg# system switchover
```

Related Commands	Command	Description
	show redundancy	Displays the system redundancy status.

system trace

To configure the system trace level, use the **system trace** command.

system trace {*mask*}

Syntax Description	*mask*	Specifies the mask.

Command Default   None

Command Modes   Global configuration (config)

SupportedUserRoles   network-admin

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to configure the system trace level:

```
vsg# system trace
```

Related Commands	Command	Description
	system default	Configures system-level default values.

system watchdog kdgb

To enable watchdog, use the **system watchdog** command. To disable watchdog, use the **no** form of the command.

system watchdog kgdb

no system watchdog kgdb

Syntax Description   This command has no arguments or keywords.

Command Default   None

Command Modes   EXEC

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to enable watchdog:

```
vsg# system watchdog
```

Related Commands

Command	Description
system default	Configures system-level default values.

tail

To display the end of a file, use the **tail** command.

tail {**bootflash:** | **debug:** | **modflash:** | **volatile:**}

Syntax Description

bootflash:	Displays the bootflash file.
debug:	Displays the debug file.
modflash:	Displays the modflash file.
volatile:	Displays the volatile file.

Defaults   10 lines.

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to display the last 10 lines of a file:

```
vsg# tail bootflash:startup.cfg
ip arp inspection filter marp vlan 9
ip dhcp snooping vlan 13
ip arp inspection vlan 13
ip dhcp snooping
ip arp inspection validate src-mac dst-mac ip
ip source binding 10.3.2.2 0f00.60b3.2333 vlan 13 interface Ethernet2/46
ip source binding 10.2.2.2 0060.3454.4555 vlan 100 interface Ethernet2/10
logging level dhcp_snoop 6
logging level eth_port_channel 6
```

This example shows how to display the last 20 lines of a file:

```
vsg# tail bootflash:startup.cfg 20
area 99 virtual-link 1.2.3.4
router rip Enterprise
router rip foo
  address-family ipv4 unicast
```

```
router bgp 33.33
event manager applet sdtest
monitor session 1
monitor session 2
ip dhcp snooping vlan 1
ip arp inspection vlan 1
ip arp inspection filter marp vlan 9
ip dhcp snooping vlan 13
ip arp inspection vlan 13
ip dhcp snooping
ip arp inspection validate src-mac dst-mac ip
ip source binding 10.3.2.2 0f00.60b3.2333 vlan 13 interface Ethernet2/46
ip source binding 10.2.2.2 0060.3454.4555 vlan 100 interface Ethernet2/10
logging level dhcp_snoop 6
logging level eth_port_channel 6
```

Related Commands	Command	Description
	cd	Changes the current working directory.
	copy	Copies files.
	dir	Displays the directory contents.
	pwd	Displays the name of the current working directory.

telnet

To create a Telnet session, use the **telnet** command.

telnet {*ipv4-address* | *hostname*} [*port-number* | **vrf** *vrf-name*]

Syntax Description		
	ipv4-address	IPv4 address of the remote device.
	hostname	Hostname of the remote device. The name is alphanumeric, case sensitive, and has a maximum of 64 characters.
	port-number	(Optional) Port number for the Telnet session. The range is 1 to 65535.
	vrf *vrf-name*	(Optional) The virtual routing and forwarding (VRF) name used for the Telnet session. The name is case sensitive.

Defaults

Port 23

Default VRF

Command Modes

EXEC

Global configuration (config)

SupportedUserRoles

network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines

None

Examples

This example shows how to start a Telnet session:

```
vsg# telnet 10.10.1.1 vrf management
```

Related Commands	Command	Description
	clear line	Clears Telnet sessions.
	telnet server enable	Enables the Telnet server.

terminal alias

To displays aliases, use the **terminal alias** command. To disable terminal alias, use the **no** form of the command.

>   **terminal alias** *word persist*

>   **no terminal alias** *word persist*

Syntax Description	*word*	Name of the alias.
	persist	Saves the configuration.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to displays the alias:

```
vsg# terminal alias word
```

Related Commands	Command	Description
	show terminal	Displays the terminal configuration.

terminal color

To enable colorization of the command prompt, command line and output, use the **terminal color** command. To disable terminal color, use the **no** form of the command.

terminal color *evening persist*

no terminal color *evening persist*

Syntax Description		
	evening	Changes the screen background to black.
	persist	Saves the configuration.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to set the colorization of the command line:

```
vsg# terminal color evening persist
```

Related Commands	Command	Description
	show terminal	Displays the terminal configuration.

terminal dont-ask

To turn off `Are you sure?` questions when a command is executed, use the **terminal dont-ask** command. To disable terminal don't ask, use the **no** form of the command.

terminal dont-ask *persist*

no terminal dont-ask *persist*

Syntax Description	*persist*	Saves the configuration.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to use the command:

```
vsg# terminal dont-ask persist
```

Related Commands

Command	Description
show terminal	Displays the terminal configuration.

terminal edit-mode

To set the edit mode to vi, use the **terminal edit-mode** command. To return the edit mode to emacs, use the **no** form of the command.

> **terminal edit-mode vi**

> **no terminal edit-mode vi**

Syntax Description

vi	Sets the edit mode to vi.

Defaults   emacs

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to set the command line edition keys:

```
vsg# terminal edit-mode vi
```

Related Commands

Command	Description
show terminal	Displays the terminal configuration.

terminal event-manager

To bypass the CLI event manager, use the **terminal event-manager** command.

terminal event-manager bypass

Syntax Description	**bypass**	Bypasses the CLI event manager.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to bypass the CLI event manager:

```
vsg# terminal event-manager bypass
```

Related Commands	Command	Description
	show terminal	Displays the terminal configuration.

terminal history

To disable the recall of EXEC mode commands when in configuration mode, use the **terminal history** command. To enable recall, use the **no** form of this command.

terminal history no-exec-in-config

no terminal history no-exec-in-config

Syntax Description	**no-exec-in-config**	Disables the recall of EXEC mode commands when in configuration mode.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to set terminal history properties:

```
vsg# terminal history no-exec-in-config
```

Related Commands

Command	Description
show terminal	Displays the terminal configuration.

terminal length

To set the number of lines that appear on the terminal screen, use the **terminal length** command.

terminal length *number*

Syntax Description	*number*	Number of lines. The range of valid values is 0 to 511.

Defaults 28 lines

Command Modes EXEC

Global configuration (config)

SupportedUserRoles network-admin

network-operator

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines Set *number* to 0 to disable pausing.

Examples This example shows how to set the number of lines that appear on the screen:

```
vsg# terminal length 60
```

Related Commands	Command	Description
	show terminal	Displays the terminal configuration.

terminal log-all

To log all commands including the show commands, use the **terminal log-all** command.

terminal log-all

Syntax Description   This command has no arguments or keywords.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to log all commands:

```
vsg# terminal log-all
```

Related Commands

Command	Description
show terminal	Displays the terminal configuration.

terminal monitor

To copy Syslog output to the current terminal line, use the **terminal monitor** command.

terminal monitor

Syntax Description   This command has no arguments or keywords.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to copy Syslog output to the current terminal line:

```
vsg# terminal monitor
```

Related Commands

Command	Description
show terminal	Displays the terminal configuration.

terminal output

To display show command output in XML, use the **terminal output** command. To display show command output in text, use the **no** form of this command.

terminal output xml

no terminal output xml

Syntax Description

xml	Displays show command output in XML.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to display show command output in XML:

```
vsg# terminal output xml
```

Related Commands

Command	Description
show terminal	Displays the terminal configuration.

terminal redirection-mode

To set the redirection mode, use the **terminal redirection-mode** command.

terminal redirection-mode {**ascii** | **zipped**}

Syntax Description

ascii	Sets the redirection mode to ASCII.
zipped	Sets the redirection mode to Zipped.

Defaults

None

Command Modes

EXEC

Global configuration (config)

SupportedUserRoles

network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines

None

Examples

This example shows how to set the redirecton mode to ASCII:

```
vsg# terminal redirection-mode ascii
```

Related Commands

Command	Description
show terminal	Displays the terminal configuration.

terminal session-timeout

To set the terminal session timeout, use the **terminal session-timeout** command.

terminal session-timeout *time*

Syntax Description	*time* Timeout time, in seconds. The range of valid values is 0 to 525600.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   Set *time* to 0 to disable terminal session timeout.

Examples   This example shows how to set terminal session timeout:

```
vsg# terminal session-timeout 100
```

Related Commands

Command	Description
show terminal	Displays the terminal configuration.

terminal terminal-type

To specify the terminal type, use the **terminal terminal-type** command.

terminal terminal-type *type*

Syntax Description	*type*	Terminal type.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to specify the terminal type:

```
vsg# terminal terminal-type vt100
```

Related Commands

Command	Description
show terminal	Displays the terminal configuration.

terminal tree-update

To update the main parse tree, use the **terminal tree-update** command.

terminal tree-update

Syntax Description   This command has no arguments or keywords.

Defaults   None

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to update the main parse tree:

```
vsg# terminal tree-update
```

Related Commands

Command	Description
show terminal	Displays the terminal configuration.

terminal verify-only

To verify commands, use the **terminal verify-only** command.

terminal verify-only username *word*

Syntax Description

username	Specifies the username for AAA authorization.
word	User name.

Defaults

None

Command Modes

EXEC

Global configuration (config)

SupportedUserRoles

network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines

None

Examples

This example shows how to verify commands:

```
vsg# terminal verify-only
```

Related Commands

Command	Description
show terminal	Displays the terminal configuration.

terminal width

To set terminal width, use the **terminal width** command.

terminal width *width*

Syntax Description	*width*	Sets the number of characters on a single line. The range of valid values is 24 to 511.

Defaults   102 columns.

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History	**Release**	**Modification**
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to set terminal width:

```
vsg# terminal width 60
```

Related Commands	**Command**	**Description**
	show terminal	Displays the terminal configuration.

test policy-engine

To test the policy engine on a RADIUS server or in a server group, use the **test policy-engine** command.

test policy-engine {**simulate-pe-req** | **simulate-zone-req**}

Syntax Description

simulate-pe-req	Simulate policy engine lookup.
simulate-zone-req	Simulates policy engine zone.

Defaults

None

Command Modes

EXEC

Global configuration (config)

SupportedUserRoles

network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines

None

Examples

This example shows how to test the policy engine:

```
vsg# test policy-engine simulate-zone-req
```

Related Commands

Command	Description
show policy-engine	Displays policy-engine statistics.

traceroute

To discover routes, use the **traceroute** command.

traceroute {*A.B.C.D. | host-name*} [**source** *src-ipv4-addr* | **vrf** *vrf-name* | **show-mpls-hops**]

Syntax Description		
*A.B.C.D.	host-name*	IPv4 address or host-name of the destination device. Name is case sensitive.
vrf *vrf-name*	(Optional) Specifies the virtual routing and forwarding (VRF) to use. The name is case sensitive.
show-mpls-hops	(Optional) Displays the Multiprotocol Label Switching (MPLS) hops.
source *src-ipv4-addr*	(Optional) Specifies a source IPv4 address. The format is *A.B.C.D*.

Defaults

Uses the default VRF.

Does not show the MPLS hops.

Uses the management IPv4 address for the source address.

Command Modes

EXEC

Global configuration (config)

SupportedUserRoles

network-admin

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines

None

Usage Guidelines

To use IPv6 addressing for discovering the route to a device, use the **traceroute6** command.

Examples

This example shows how to discover a route to a device:

```
vsg# traceroute 172.28.255.18 vrf management
traceroute to 172.28.255.18 (172.28.255.18), 30 hops max, 40 byte packets
 1  172.28.230.1 (172.28.230.1)  0.746 ms  0.595 ms  0.479 ms
 2  172.24.114.213 (172.24.114.213)  0.592 ms  0.51 ms  0.486 ms
 3  172.20.147.50 (172.20.147.50)  0.701 ms  0.58 ms  0.486 ms
 4  172.28.255.18 (172.28.255.18)  0.495 ms  0.43 ms  0.482 ms
```

Related Commands	Command	Description
	traceroute6	Discovers the route to a device using IPv6 addressing.

Chapter 2   Cisco Virtual Security Gateway Commands

username name password

username name password

To set a password for the user name, use the **username** *name* **password** command.

username *name* **password** {**0** *password* | **5** *password* | *password*}

Syntax Description		
0 *password*	Password. **0** denotes that the password that follows should be set in clear text. The maximum size for *password* is 64 characters.
5 *password*	Password. **5** denotes that the password that follows should be encrypted. The maximum size for *password* is 64 characters.
password	Password in clear text. The maximum size for *password* is 64 characters.

Defaults   None

Command Modes   Global configuration (config)

SupportedUserRoles   network-admin

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to set a password for the user name:

```
vsg# configure
vsg(config)# username admin password 5 q0w9e8R7
```

Usage Guidelines   The Cisco VSG does not support multiple user accounts. It supports only the default **admin** user account.

Related Commands	Command	Description
	show users	Displays users.

Cisco Virtual Security Gateway for Nexus 1000V Series Switch Command Reference, Release 4.2(1)VSG1(1)

OL-23953-02

2-197

where

To display your current context, use the **where** command.

where [**detail**]

Syntax Description

detail	(Optional) Displays detailed context information.

Defaults   Displays summary context information.

Command Modes   EXEC

Global configuration (config)

SupportedUserRoles   network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines   None

Examples   This example shows how to display summary context information:

```
vsg# where
      admin@firewall
vsg#
```

Related Commands

Command	Description
pwd	Displays what directory you are in.

write erase

To erase configurations in persistent memory areas, use the **write erase** command.

> **write erase** [**boot** | **debug**]

Syntax Description

boot	(Optional) Erases the boot variable and management 0 interface configurations.
debug	(Optional) Erases only the debug configuration.

Defaults

Erases all configuration in persistent memory except for the boot variable, mgmt0 interface, and debug configuration.

Command Modes

Global configuration (config)

SupportedUserRoles

network-admin

network-operator

Command History

Release	Modification
4.2(1)VSG1(1)	This command was introduced.

Usage Guidelines

When information is corrupted or unusable, use this command to erase startup configuration in the persistent memory . This returns the device to its initial state, except for the boot variable, mgmt0 interface, and debug configurations. To erase those, specifically use the **boot** and **debug** options.

Examples

This example shows how to erase the startup configuration:

```
vsg(config)# write erase
Warning: This command will erase the startup-configuration.
Do you wish to proceed anyway? (y/n)  [n] y
```

This example shows how to erase the boot variable and mgmt0 interface configuration in the persistent memory:

```
vsg(config)# write erase boot
```

This example shows how to erase the debug configuration in the persistent memory:

```
vsg(config)# write erase debug
```

■   **write erase**

Related Commands	Command	Description
	copy running-config startup-config	Copies the running configuration to the startup configuration.
	show running-config	Displays the startup configuration.