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### **Cisco Global Site Selector Command** Reference

Version 1.0

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## Preface

This preface describes who should read the *Cisco Global Site Selector Command Reference*, how it is organized and its document conventions. It contains the following sections:

- Audience, page vii
- Document Organization, page vii
- Document Conventions, page viii
- Additional Documentation, page viii
- Obtaining Documentation, page ix
- Obtaining Technical Assistance, page x

### Audience

This command reference is for experienced network administrators familiar with TCP/IP networking concepts and router configuration. To use this command reference, you should be familiar with the Cisco Content Router 4430 or 4480 Global Site Selector hardware. In addition, you should be familiar with basic TCP/IP and networking concepts, router configuration, Domain Name System (DNS), the Berkeley Internet Name Domain (BIND) software, as well as your organization's unique network configuration.

## **Document Organization**

This command reference includes the following chapters:

Chapter	Title	Description
Chapter 1	Command-Line Interface Command Summary	Describes how to use the command-line interface and presents the commands and command syntax in tables.
Chapter 2	Cisco Global Site Selector Commands	Lists the GSS commands in alphabetical order and provides detailed descriptions of their use.

### **Document Conventions**

This command reference uses basic conventions to represent text and table in	information.
------------------------------------------------------------------------------	--------------

Convention Description		
boldface font	Commands, keywords, and button names are in <b>boldface</b> .	
<i>italic</i> font	Variables for which you supply values are in <i>italics</i> . Directory names and filenames are also in italics.	
screen font	Terminal sessions and information the system displays are printed in screen font.	
boldface screen font	Information you must enter is in <b>boldface screen</b> font.	
italic screen font	Variables you enter are printed in <i>italic</i> screen font.	
plain font	Enter one of a range of options as listed in the syntax description.	
<b>^D</b> or <b>Ctrl-D</b> Hold the <b>Ctrl</b> key while you press the <b>D</b> key.		
string Defined as a nonquoted set of characters.		
	For example, when setting a community string for SNMP to "public," do not use quotation marks around the string, or the string will include the quotation marks.	
Vertical bars ( )	Separate alternative, mutually exclusive, elements.	
{ }	Elements in braces are required elements.	
[]	Elements in square brackets are optional.	
$\{\mathbf{x} \mid \mathbf{y} \mid \mathbf{z}\}$	Required keywords are grouped in braces and separated by vertical bars.	
$[\mathbf{x} \mid \mathbf{y} \mid \mathbf{z}]$	Optional keywords are grouped in brackets and separated by vertical bars.	
[{ }]	Braces within square brackets indicate a required choice within an optional element.	

Note

Means *reader take note*. Notes contain helpful suggestions or references to materials not contained in the manual.



Means *reader be careful*. In this situation, you might do something that could result in data loss or equipment damage.

## **Additional Documentation**

For additional information, refer to the following documentation:

- Regulatory Compliance and Safety Information for the Cisco Content Networking Product Series
- Cisco Global Site Selector 4480 Hardware Installation Guide
- Cisco Global Site Selector Configuration Guide
- Release Notes for the Cisco Global Site Selector Version 1.0

### **Obtaining Documentation**

The following sections explain how to obtain documentation from Cisco Systems.

### World Wide Web

You can access the most current Cisco documentation on the World Wide Web at the following URL:

http://www.cisco.com

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http://www.cisco.com/public/countries\_languages.shtml

### **Documentation CD-ROM**

Cisco documentation and additional literature are available in a Cisco Documentation CD-ROM package, which is shipped with your product. The Documentation CD-ROM is updated monthly and may be more current than printed documentation. The CD-ROM package is available as a single unit or through an annual subscription.

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http://www.cisco.com/go/subscription

 Nonregistered Cisco.com users can order documentation through a local account representative by calling Cisco corporate headquarters (California, USA) at 408 526-7208 or, elsewhere in North America, by calling 800 553-NETS (6387).

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We appreciate your comments.

### **Obtaining Technical Assistance**

Cisco provides Cisco.com as a starting point for all technical assistance. Customers and partners can obtain documentation, troubleshooting tips, and sample configurations from online tools by using the Cisco Technical Assistance Center (TAC) Web Site. Cisco.com registered users have complete access to the technical support resources on the Cisco TAC Web Site.

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### **Technical Assistance Center**

The Cisco TAC is available to all customers who need technical assistance with a Cisco product, technology, or solution. Two types of support are available through the Cisco TAC: the Cisco TAC Web Site and the Cisco TAC Escalation Center.

Inquiries to Cisco TAC are categorized according to the urgency of the issue:

- Priority level 4 (P4)—You need information or assistance concerning Cisco product capabilities, product installation, or basic product configuration.
- Priority level 3 (P3)—Your network performance is degraded. Network functionality is noticeably impaired, but most business operations continue.

- Priority level 2 (P2)—Your production network is severely degraded, affecting significant aspects of business operations. No workaround is available.
- Priority level 1 (P1)—Your production network is down, and a critical impact to business operations will occur if service is not restored quickly. No workaround is available.

Which Cisco TAC resource you choose is based on the priority of the problem and the conditions of service contracts, when applicable.

#### **Cisco TAC Web Site**

The Cisco TAC Web Site allows you to resolve P3 and P4 issues yourself, saving both cost and time. The site provides around-the-clock access to online tools, knowledge bases, and software. To access the Cisco TAC Web Site, go to the following URL:

#### http://www.cisco.com/tac

All customers, partners, and resellers who have a valid Cisco services contract have complete access to the technical support resources on the Cisco TAC Web Site. The Cisco TAC Web Site requires a Cisco.com login ID and password. If you have a valid service contract but do not have a login ID or password, go to the following URL to register:

#### http://www.cisco.com/register/

If you cannot resolve your technical issues by using the Cisco TAC Web Site, and you are a Cisco.com registered, you can open a case online by using the TAC Case Open tool at the following URL:

http://www.cisco.com/tac/caseopen

If you have Internet access, it is recommended that you open P3 and P4 cases through the Cisco TAC Web Site.

#### **Cisco TAC Escalation Center**

The Cisco TAC Escalation Center addresses issues that are classified as priority level 1 or priority level 2; these classifications are assigned when severe network degradation significantly impacts business operations. When you contact the TAC Escalation Center with a P1 or P2 problem, a Cisco TAC engineer will automatically open a case.

To obtain a directory of toll-free Cisco TAC telephone numbers for your country, go to the following URL:

#### http://www.cisco.com/warp/public/687/Directory/DirTAC.shtml

Before calling, please check with your network operations center to determine the level of Cisco support services to which your company is entitled; for example, SMARTnet, SMARTnet Onsite, or Network Supported Accounts (NSA). In addition, please have available your service agreement number and your product serial number.





## **Command-Line Interface Command Summary**

This chapter provides a summary of the command-line interface (CLI) commands included in the *Cisco Global Site Selector Command Reference*. The command summary tables are grouped alphabetically in five categories: user-level EXEC commands, privileged-level EXEC commands, global configuration commands, interface configuration commands, and **show** EXEC commands. The CLI can be accessed through the console port or Telnet.

### Accessing the CLI

You can access the command-line interface by establishing a remote connection or by connecting directly to the device using a dedicated terminal.

### Accessing the CLI Using a Remote Connection

You can establish a remote connection with a Global Site Selector (GSS) using Telnet or Secure Shell (SSH).

In a single Telnet or SSH session, you cannot connect to more than one device; you can have several Telnet or SSH sessions running in parallel for different devices.

SSH connections are strongly recommended because SSH lets you communicate securely over insecure channels and provides strong authentication.

Use your preferred SSH or Telnet client, entering the host name or IP address of the GSS device (Global Site Selector or Global Site Selector Manager) as the host name, and using your GSS administrative username and password to log on to the device via remote connection.

Once you have logged on, you will be limited in your interaction with the GSS device to the commands described in this document.

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### Accessing the CLI Using a Serial Connection

Establish a serial connection between your terminal and the GSS device. For information on how to establish a serial connection with your device, refer to the *Cisco Global Site Selector 4480 Hardware Installation Guide*.

Once you are connected, you can use any terminal communications application to access the CLI. The following procedure uses HyperTerminal.

Step 1 Launch HyperTerminal.

The Connection Description window appears.

- Step 2 Enter a name for your session in the Name field.
- Step 3 Click OK.

The Connect To window appears.

- Step 4 From the drop-down list, choose the COM port to which the device is connected.
- Step 5 Click OK.

The Port Properties window appears. Set the port properties as follows:

- Baud Rate = 9600
- Data Bits = 8
- Flow Control = none
- Parity = none
- Stop Bits = 1
- Step 6 Click OK to connect.
- Step 7 Press Enter to display the command-line interface prompt.

Once a session is created, you can save the connection description by choosing File > Save As. Saving the connection description has the following two advantages:

- The next time you launch HyperTerminal, the session is listed as an option under Start > Programs > Accessories > HyperTerminal > Name\_of\_session. This option lets you reach the CLI prompt directly without going through the configuration steps.
- You can connect your cable to a different device without configuring a new HyperTerminal session. If you use this option, make sure that you connect to the same port on the new device as was configured in the saved HyperTerminal session. Otherwise, a blank screen appears without a prompt.

## **Using Command-Line Processing**

GSS software commands are not case sensitive. You can abbreviate commands and parameters as long as they contain enough letters to be different from any other currently available commands or parameters. You can scroll through the last 20 commands stored in the history buffer and enter or edit the command at the prompt. (See Table 1-1.)

Keystroke Combination	Description
Ctrl-A	Jumps to the first character of the command line.
Ctrl-B or the Left Arrow key	Moves the cursor back one character.
Ctrl-C	Escapes and terminates prompts and tasks.
Ctrl-D	Deletes the character at the cursor.
Ctrl-E	Jumps to the end of the current command line.
Ctrl-F or the Right Arrow key <sup>1</sup>	Moves the cursor forward one character.
Ctrl-K	Deletes from the cursor to the end of the command line.
Ctrl-L	Repeats the current command line on a new line.
Ctrl-N or the Down Arrow key <sup>1</sup>	Enters the next command line in the history buffer.
Ctrl-P or the Up Arrow key <sup>1</sup>	Enters the previous command line in the history buffer.
Ctrl-T	Transposes the character at the cursor with the character to the left of the cursor.
Ctrl-U; Ctrl-X	Deletes from the cursor to the beginning of the command line.
Ctrl-W	Deletes the last word typed.
Esc-B	Moves the cursor back one word.
Esc-D	Deletes from the cursor to the end of the word.
Esc-F	Moves the cursor forward one word.
Delete key or Backspace key	Erases a mistake when entering a command; reenter the command after using this key.

Table 1-1 Command-Line Processing Keystroke Combinations

1. The arrow keys function only on ANSI-compatible terminals such as VT100s.

## **Command Modes**

There are three command modes for the GSSCLI. The three modes are:

- EXEC
- Global configuration
- Interface configuration

### EXEC Mode

The two EXEC access levels are privileged and user. The **enable** and **disable** commands switch between the two levels. The user-level EXEC command line is available to users if they enter a valid password. The user-level EXEC commands are a subset of the privileged-level EXEC commands. The user-level EXEC prompt is the host name followed by a right angle bracket (>). The prompt for the privileged-level EXEC command line is the pound sign (#). To execute an EXEC command, enter the command at the EXEC system prompt and press the **Return** key. In the following example, a user accesses the privileged-level EXEC command line from the user level.

Host> **enable** Host#

Use the **Delete** or **Backspace** key sequences to edit commands when you type commands at the EXEC prompt.

As a shortcut, you can abbreviate commands to the fewest letters that make them unique. For example, the letters **sho** can be entered for the **show** command.

Certain EXEC commands display multiple screens with the following prompt at the bottom of the screen:

--More--

Press the **Spacebar** to continue the output, or press **Return** to display the next line. Press any other key to return to the prompt. Also, at the --More-- prompt, you can enter a **?** to display the help message.

To leave EXEC mode, use the exit command at the system prompt:

Host# exit

See the "EXEC Command Summary" section on page 1-7 for a summary of EXEC-level commands.

### **Global Configuration Mode**

To enter the global configuration mode, use the **configure** privileged EXEC command. You must be in global configuration mode to enter global configuration commands.

Host# configure Host(config)#

To exit global configuration mode, use the end global configuration command:

Host(config)# end

You can also exit global configuration mode by entering the exit command or by pressing Ctrl-Z.

See the "Global Configuration Command Summary" section on page 1-10 for a summary of Global configuration-level commands.

### Interface Configuration Mode

To enter interface configuration mode, use the **interface** global configuration command. The following example demonstrates how to enter interface configuration mode:

```
Host# config
Host(config)# interface ethernet 0
Host(config-eth0)#
```

To exit interface configuration mode, enter **exit** to return to global configuration mode:

```
Host(config-eth0)# exit
Host(config)#
```

See the "Interface Configuration Command Summary" section on page 1-11 for a summary of interface configuration-level commands.

### **Check Command Syntax**

The user interface provides error isolation in the form of an error indicator, a caret symbol (^). The ^ symbol appears at the point in the command string where you have entered an incorrect command, keyword, or argument.

In the following example, a syntax error occurs in the process of setting the device clock. Context-sensitive help is then used to check the syntax for setting the clock and correct the mistake.

The help output shows that the **set** keyword is required. Press the **Up Arrow** to automatically repeat the previous command entry. Then add a space and question mark (?) to display the additional arguments:

```
Host#clock set ?
  <0-23>: Current Time (hh:mm:ss)
Host#clock set 20:00:00
% Incomplete command.
Host#clock set 20:00:00?
<0-59>
Host#clock set 20:00:00 ?
  <1-31>
          Day of Month
  april
  august
  december
  february
  january
             Month of the Year
  july
  june
 march
 may
 november
 october
  september
Host#clock set 20:00:00 march ?
  <1-31> Day of Month
Host#clock set 20:00:00 march 26 ?
 <1993-2035> Year
Host#clock set 20:00:00 march 26 2002
```

### Controlling Command Output

You can control the output of your GSS CLI commands--filtering it, or saving it to a file--using special operators that are added to your command syntax. The following table presents information on the various command options that allow you to control the output generated by GSS commands.

Command Line Syntax	Description	
grep text	Grep operator. When coupled with a CLI command, this operator filters command output to display only output containing words or text that you specify. For example, the following command would list only files containing "log" in a directory:	
	Host>ls	
	platform.cfg	
	props.cfg	
	props.cfg.startup	
	runmode-comment	
	running.cfg	
	squid	
	sysMessages.log	
	syslog-messages.log	
	sysmsg	
	sysout	
	system.log	
	tmp	
	tomcat	
	trace.log	
	Host>ls  grep log	
	sysMessages.log	
	syslog-messages.log	
	system.log	
	trace.log	
>	Redirect operator. When coupled with a CLI command, this operator saves command output to a file, for example:	
	Host#show processes >output	

Table 1-2	Command-Line Out	put Processing	Syntax Options

### System Help

You can obtain help when you enter commands by using the following methods:

- For a brief description of the context-sensitive help system, enter help.
- To list all commands for a command mode, enter a question mark (?) at the system prompt.
- To obtain a list of commands that start with a particular character set, enter an abbreviated command immediately followed by a question mark (?).

Host# **cl?** clear clock

• To list the command keywords or arguments, enter a space and a question mark (?) after the command:

```
Host# clock ?
clear Clear the current time from the battery-backed clock
save Save the current time into the battery-backed clock
set Set the local time and date
```

## **Save Configuration Changes**

To avoid losing new configurations, save them to NVRAM using the **copy** or **write** commands, as shown in the following example:

Host# copy running-config startup-config

or

Host# write

See the command description for the **copy running-config startup-config** command for more information on "running" and "saved" configuration modes.

### **EXEC Command Summary**

The GSS software EXEC commands are entered in EXEC mode. Table 1-3 lists the user-level EXEC commands. Table 1-4 lists the privileged-level EXEC commands.

User EXEC Command	Syntax	Description
cd	cd directoryname	Changes the current directory.
dir	dir [directory]	Displays files in long list format.
dnslookup	<b>dnslookup</b> { <i>hostname</i>   <i>domainname</i> }	Resolves host name (DNS).
enable	enable	Accesses privileged EXEC commands.
exit	exit	Exits from terminal session.
ftp	<pre>ftp {hostname   ip-address}</pre>	Enables or disables FTP, or opens an FTP session.
help	help	Provides assistance for command line-interface.
lls	lls [directory]	Displays directory files in long list format.
ls	ls [directory]	Displays files in directory.
ping	<pre>ping {hostname   ip-address}</pre>	Sends ICMP echo packets.
pwd	pwd	Displays path name of the present working directory.
scp	<pre>scp {source_path [source_filename] target_host:target_path}</pre>	Securely copies files from or to a location.
	<pre>scp {source_host:/source_path [source_filename] target_path}</pre>	
show	<pre>show {clock   ftp   ntp   ssh   telnet   terminal-length   uptime   user username   users   version}</pre>	Displays configuration information and system properties for your GSS device and its components, as well as global server load balancing resources.
snmp	snmp enable	Enables or disables Simple Network Management Protocol (SNMP) on your GSS device.

Table 1-3 GSS Software User-Level EXEC Commands

User EXEC Command	Syntax	Description
tail	tail filename	Displays the last 10 lines of the named file.
telnet	telnet [enable] [hostname   ip-address]	Opens a Telnet session.
type	type filename	Displays the contents of a file on the console.
?	?	Generates a list of user EXEC commands.

Table 1-3 GSS Software User-Level EXEC Commands (continued)

#### Table 1-4 GSS Software Privileged-Level EXEC Commands

Privileged EXEC Command	Syntax	Description
clear	clear statistics {boomerang   dns   keepalive {all   cra   http-head   icmp   kalap   ns}}	Resets statistics for the named subsystem, for example: <i>kale</i> for Keep Alive Engine.
clock	<pre>clock {set hh:mm:ss MONTH DD YYYY   timezone timezonename}</pre>	Sets the device time or timezone.
configure	configure	Places the CLI session in configuration mode.
сору	<b>copy</b> { <b>disk startup-config</b> <i>filename</i>   <b>startup-config disk</b> <i>filename</i>   <b>running-config</b> [ <b>disk</b> <i>filename</i>   <b>startup-config</b> }	<ul> <li>Copies one of the following:</li> <li>File from disk to the startup-config</li> <li>The startup-config to a file on disk</li> <li>The running-config to a file on disk</li> <li>Technical support information to a file on disk</li> </ul>
del	del filename	Deletes the named file.
delete-secure-keys	delete-secure-keys	Deletes the private key used for authentication.
disable	disable	Turns off privileged EXEC commands.
enable	enable	Accesses privileged EXEC commands.
exit	exit	Exits from the EXEC and configuration command levels to user level.
gss	gss {enable { gssm-primary   gssm-standby {gssm_hostname   gssm_IP_address}   gss {gssm_hostname   gssm_IP_address}}   restart   start   status   stop   tech-report filename}	Manages your GSS devices
gssm	gssm {backup {database filename   full filename}  database {create   delete   invalidate   maintain   purge-log-records {count number_records  days number_days}   report   status   validate}  primary-to-standby   restore filename   standby-to-primary}	Manages your Global Site Selector Manager and its embedded database.
install	install filename	Installs a new version of the GSS software.

Privileged EXEC Command	Syntax	Description
lsof	lsof	Lists open files.
reload	reload	Halts and performs a cold restart.
restore factory-defaults	restore factory-defaults	Sets the GSS configuration to the factory-default state.
rotate-logs	rotate-logs	Forces the GSS to rotate log files.
scp	<pre>scp {source_path [source_filename] target_IP_address:target_path   source_IP_address:/source_path [source_filename] target_path}</pre>	Securely copies files from or to a location.
show	show {access-group   access-list   clock   ftp  interface {0   1}   ip routes   logging   logs {follow  tail}   memory   ntp   processes   properties  running-config   ssh   startup-config   statistics{boomerang {domain domain_name   global }  dns {answer-group {list   group_name}   domain{list   domain_name  } domain-group {list  domain_group_name}   global   rule {list  rule_name}   source-address-group {list  sa_group_name}   keepalive {all   cra {IP_address  list   global   http-head {IP_address   list   icmp{IP_address   list   kalap {IP_address   list   ns{IP_address   list}   system-status   tech-support  telnet   terminal-length   uptime   user username  users   version}	Displays configuration information and system properties for your GSS device and its components, as well as global server load balancing resources.
shutdown	shutdown	Shuts down the operating system.
tcpdump	tcpdump {eth0   eth1}	Outputs all traffic to and from a particular GSS interface
telnet	<b>telnet</b> { <i>hostname</i>   <i>ip-address</i> }	Opens a Telnet session.
type	type filename	Displays the contents of a file.
write	write memory	Copy the running configuration as the new startup configuration.

#### Table 1-4 GSS Software Privileged-Level EXEC Commands (continued)

## **Global Configuration Command Summary**

The global configuration Content Engine commands are entered in the global configuration mode. Table 1-5 lists the global configuration commands.

 Table 1-5
 GSS Software Global Configuration Commands

Global Configuration Command	Syntax	Description
access-group	access-group name interface {eth0   eth1 }	Assigns an access list to a GSS network interface.
access-list	access-list name {permit   deny} protocol [type icmp-type] [source-address source-netmask / host source-address   any] operator port [port] [destination-port operator port [port]]	Configures access lists on the GSS.
end	end	Exits configuration and privileged EXEC modes.
exec-timeout	exec-timeout timeout	Configures the length of time that an inactive Telnet session remains open.
exit	exit	Exits configuration and privileged EXEC modes.
ftp	<pre>ftp {enable   {hostname   IP_address}</pre>	Enables or disables FTP on the GSS device, or opens an FTP session with a remote host device.
help	help	Provides assistance for the command-line interface.
hostname	hostname name	Configures the system's network name.
interface	interface Ethernet {0   1}{autosense   bandwidth mbits   fullduplex   halfduplex   ip address {ip-address netmask}   no   gss-communications   shutdown}	Configures the Ethernet interface on the GSS device.
ip	<pre>ip {default-gateway ip-address / domain-name name / name-server ip-addresses / route destination_address netmask gateway }</pre>	Configures Internet Protocol.
logging	logging {disk {enable   priority loglevel   subsystem name priority loglevel }   host {enable   ip ip_addresses  priority loglevel   subsystem name priority loglevel }}	Configures system logging (syslog).
no	no {access-group   access-list   copy   exec-timeout   ftp   help   hostname   interface   ip   logging   ntp-server   property   show   ssh   telnet   terminal-length   username   write }	
ntp	<pre>ntp { server {hostname   ip-address}   enable }</pre>	Configures Network Time Protocol (NTP).

Clobal Configuration		
Command	Syntax	Description
property	<b>property set</b> property_name property_value	Enable, disable, or modify one of a variety of GSS system configuration options. Use this command only under the direct supervision of Cisco Technical Support.
how show {access-group   access-list   clock   ftp   interface {0   1}   ip routes   logging   logs {follow   tail   memory   ntp   processes   properties   running-config   ssh   startup-config   statistics {boomerang {domain domain_name   global }   dns {answer-group {list   group_name}   domain {list   domain_name}  domain-group {list   domain_group_name}  global   rule {list   rule_name}  source-address-group {list   sa_group_name}}   keepalive{all   cra {IP_address   list}   global   http-head {IP_address   list}   icmp {IP_address   list}   kalap {IP_address   list}   ns {IP_address   list}}] system-status   tech-support   telnet   terminal-length   uptime   user username   users   version}		Displays configuration information and system properties for your GSS device and its components, as well as global server load balancing resources.
ssh	ssh enable	Configures SSH service parameters.
telnet	telnet [enable] [hostname   ip-address]	Enables or disables Telnet or opens a new Telnet session.
terminal	terminal length number	Sets the number of rows displayed on a terminal, between 0 (meaning no pauses in screen output) and 512.
username	username name {password word privilege {user   admin }   delete }	Creates or removes a user account.
write	write memory	Copies the running configuration as the new startup configuration.

#### Table 1-5 GSS Software Global Configuration Commands (continued)

### **Interface Configuration Command Summary**

The interface configuration commands are entered in the interface configuration mode. Enable interface configuration mode by entering the **interface** command in global configuration mode.

For example:

Host# config Host(config)# interface Host(config-if)# autosense

To exit interface configuration mode, enter **exit** to return to global configuration mode.

Host(config-if)# **exit** Host(config)#

Table 1-6 lists the interface configuration commands.

Interface Command	Syntax	Description
autosense	autosense	Sets current interface to autosense.
bandwidth	bandwidth mbits	Sets specified interface line speed (10, 100 Mbps).
exit	exit	Exits from interface mode.
fullduplex	fullduplex	Sets current interface to full-duplex mode.
gss-communications	gss-communications	Configures the interface for communication between GSS devices
gss-tcp-keepalives	gss-tcp-keepalives	Configures the interface for use receiving TCP keepalive information
halfduplex	halfduplex	Sets current interface to half-duplex mode.
ip address	<pre>ip {address ip-address ip-subnet}</pre>	Configures the Internet Protocol parameters for the specified interface.
no	no {autosense   bandwidth   fullduplex   gss-communications   gss-tcp-keepalives   halfduplex   ip   show   shutdown }	Negates a command or sets its defaults.
show	show {access-group   access-list   clock   ftp   interface {eth0   eth1}   ip   logging   memory   ntp   processes   properties   running-config   ssh   startup-config   statistics {boomerang {domain domain_name   global }   dns {answer-group {list   group_name}   domain {list   domain_group_name}   domain-group {list   domain_group_name}   global   rule {list   rule_name}   source-address-group {list   sa_group_name} }   keepalive{all   cra {IP_address   list   icmp {IP_address   list}   kalap {IP_address   list   ism {IP_address   list}   kst}}   system-status   tech-support   telnet   terminal-length   uptime   user username   users   version}       Displays configuration information and system properties for your GSS device and its component as well as global server load balancing resources	
shutdown	shutdown	Shuts down the specified interface.

 Table 1-6
 GSS Software Interface Configuration Commands



# **Cisco Global Site Selector Commands**

This chapter provides an alphabetical listing of the command-line interface (CLI) commands for the Cisco Global Site Selector (GSS). EXEC, global configuration, and interface configuration commands are all included in this chapter.

Documentation of each command contains some combination of the following information:

- · Command syntax-information on the correct structure and syntax for the command
- Usage guidelines—detailed information that describes the purpose of the command and its proper application
- Examples—command syntax as it would actually appear in a CLI session
- Related commands—other CLI commands with a purpose that is closely related to or dependent on the current command

For more information on accessing a CLI session, or the different CLI command modes, see Chapter 1, "Command-Line Interface Command Summary."

?			
•	To display : ?	a list of the available commands and syntax options, use the ? command, for example:	
Syntax Description	This command has no arguments or keywords.		
Defaults	No default behavior or values		
Usage Guidelines	This command displays the commands and syntax options available to you at the point at which you enter the command.		
Command Modes	User EXEC, privileged EXEC, global configuration, interface configuration		
Examples	In the following example, the ? command displays the possible commands at a variety of junctures.         Host> ?         cd       Change directory         dir       Directory list         dnslookup       Resolve hostname (DNS)         enable       Turn on privileged commands         exit       Exit from the EXEC         ftp       Open FTP session to host         help       Description of the interactive help system         lls       Directory list         ping       Ping a remote host         pwd       Show present working directory         scp       SecureCopy files [scp from to]         show       Show running system information         telnet       Open set session to host         type       View a file         Host> show ?       Clock         clock       Display system clock         ftp       Display ftp status         ntp       Display thet status         terminal-length       Display terminal length         uptime       Display system uptime         user       Display user information         user       Display system version		

Related Commands help

?

### access-group

To assign an access list to an interface on your GSS, use the **access-group** global configuration command. To disassociate access lists from an interface, use the **no** form of this command.

access-group name interface {eth0 | eth1}

Syntax Description	name	Name of the access list.
	interface	Specifies an interface on the GSS to which the access list will be assigned.
	eth0	Identifies the first Ethernet interface on the GSS device.
	eth1	Identifies the second Ethernet interface on the GSS device.
Defaults	No default behavi	ior or values
Command Modes	Global configurat	ion
Usage Guidelines	To assign an access list to a GSS interface use the <b>access-group</b> command. An access list is a set of rules used to filter traffic to the GSS. If no access list is assigned to an interface, that interface will permit all packets to pass to the GSS.	
	Only one access l	ist can be assigned to an interface at a time.
Examples	Host(config)# <b>a</b>	ccess-group icmp-rule eth0
Related Commands	access-list	
	interface	

### access-list

To configure access lists on the GSS that allow you to permit or deny packets access based on criteria that you establish such as protocol type, source address, or destination port, use the **access-list** global configuration command. To modify or delete access lists from your GSS, use the **no** form of this command.

access-list name {permit | deny} protocol [source-address source-netmask / host source-address / any] operator port [port] [destination-port operator port [port]]

**no access-list** *name* {**permit** | **deny**} *protocol* [*source-address source-netmask* | **host** *source-address* | *any*] *operator port* [*port*] [**destination-port** *operator port* [*port*]]

Syntax Description	name	Alphanumeric name used to identify the access list you are creating.
	permit	When attached to an access condition, allows a connection when a packet matches the condition. All provisions of the condition must be met to make a match.
	deny	When attached to an access condition, prevents a connection when a packet matches the condition. All provisions of the condition must be met to make a match.
	protocol	The Internet protocol by which the packet is being sent. Recognized values are:
		<ul> <li>tcp—Transmission Control Protocol</li> </ul>
		• udp—User Datagram Protocol
		icmp—Internet Control Message Protocol
	source-address	Network IP address from which the packet originated. The software uses the <i>source-address</i> and <i>source-netmask</i> arguments to match the incoming packet to a source network.
	source-netmask	Netmask for the network from which the packet originated. The software uses the <i>source-address</i> and <i>source-netmask</i> arguments to match the incoming packet to a source network.
	host	Host machine that is the source of the packet
	source-address	IP address of the device that is the source of the packet
	any	Wildcard value for the packet source. With <i>any</i> used in place of either the <i>source-address, source-netmask,</i> or <b>host</b> <i>source-address</i> values, packets from all incoming sources will match.
	operator	Compares arbitrary bytes within the packet. Can be one of the following values:
		• eq—equal
		• neq—not equal
		• range—range
	port	Source or destination port of the packet.
	destination-port	Compares the destination port of the packet with the access condition.

Defaults	This command has no default behavior or values.		
Command Modes	Global configuration		
Usage Guidelines	To accept or deny packets arriving at the GSS based on criteria such as the transfer protocol used and the packet source address, use the <b>access-list</b> command. An access list is a set of rules used to filter traffic to the GSS device. Rules can be used to either permit or deny packets and are associated with a particular interface using the <b>access-group</b> command. Each access list consists of one or more conditions. If packet does not match any of the access-list rules for an interface, it is automatically dropped.		
Examples	Host(config)# access-list rule1 1.2.3.4 255.255.255.240 type redirect Host(config)# access-list rule2 permit udp any destination-port eq 80 Host(config)# access-list rule3 permit tcp host 1.2.3.4 Host(config)# no access-list rule4 permit udp any destination-port eq 80		

**Related Commands** 

### autosense

To enable autosense on an interface, use the **autosense** interface configuration command. To disable this function, use the **no** form of this command.

autosense

no autosense

- Syntax Description This command has no arguments or keywords.
- **Defaults** Autosense is enabled by default.
- Command ModesInterface configuration

## **Usage Guidelines** The **autosense** command is part of the suite of interface commands for the GSS and can only be used along with the **interface** command.

When enabled, the autosense feature allows the current GSS interface to select the proper mode (i.e. full-duplex, half-duplex) for communicating with other network devices.

Make sure that **autosense** has been disabled before configuring an Ethernet interface. When **autosense** is on, manual configurations are overridden.

You must reboot the GSS using the **reload** command following a change to the autosense setting on an interface.

#### Examples

Host(config)# interface eth0
Host(config-eth0)# autosense

Host(config-eth0)# no autosense

Related Commands interface

## bandwidth

To configure an interface bandwidth, use the **bandwidth** interface configuration command. To restore default values, use the **no** form of this command.

**bandwidth** *mbits* 

no bandwidth

Syntax Description	<i>mbits</i> Bandwidth size in megabits per second (Mbps) (10 or 100).			
Command Modes	Interface configuration			
Usage Guidelines	Use this command to set the bandwidth on Fast Ethernet interfaces only. Gigabit Ethernet interfaces run at 1000 Mbps only and are not user-configureable.			
Examples	Host(config)# interface eth0 Host(config-eth0)# <b>bandwidth 10</b>			
	Host(config-eth0)# no bandwidth			

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#### cd

To change directory, use the **cd** command in user or privileged EXEC mode.

cd directoryname

Syntax Description	<i>directoryname</i> Name of the directory.			
Defaults	No default behavior or values			
Command Modes	User and privileged EXEC			
Usage Guidelines	Use this command to maneuver between directories and for file management. The directory name becomes the default prefix for all relative paths. Relative paths do not begin with a slash "/". Absolute paths begin with a slash "/".			
	Enter cd to move to the directory that is one level higher than the one you are in.			
Examples	Relative path: Host> cd local1			
	Absolute path:			
	Host> cd /local1			
Related Commands	dir			
	lls			
	ls			
	lsof			
	pwd			

## clear

To reset GSS statistics for a specific subsystem, use the clear command.

#### clear statistics {boomerang | dns | keepalive {all | cra | http-head | icmp | kalap | ns}}

Syntax Description	statistics	Reset load balancing statistics on the GSS
	boomerang	Reset statistics relating to the Boomerang server component of the GSS
	dns	Reset statistics relating to the DNS server component of the GSS
	keepalive	Reset statistics relating to the KeepAlive Engine (KALE) component of the GSS
	all	Reset statistics for all keepalive types maintained by the KALE
	cra	Reset statistics for only cra-type keepalives maintained by the KALE
	http-head	Reset statistics for only the VIP http-head type keepalive maintained by the KALE
	icmp	Reset statistics for only the VIP icmp-type keepalive maintained by the KALE
	kalap	Reset statistics for only the VIP kala-type keepalive maintained by the KALE
	ns	Reset statistics for the name server (ns) -type keepalive maintained by the KALE
Command Modes	Privileged EXEC	
Usage Guidelines	Use the <b>clear</b> comm components. Clearin performance for that that keepalive type a	and to reset global server load balancing statistics for one or more of your GSS ng statistics for a GSS component will erase all record of routing activity and t device. When clearing statistics for a keepalive type, you must have at least one of already configured on your network.
Examples	Host#clear statistics boomerang Host#clear statistics dns Are you sure? (yes/no) yes Host#clear statistics kale cra Are you sure? (yes/no) yes cra keepalive statistics cleared Host#clear statistics kale kalap Are you sure? (yes/no) yes kal-ap keepalive statistics cleared	

I

# clock

To set the current time or time zone for a GSS device, use the clock EXEC command.

clock {set hh:mm:ss MONTH DD YYYY | timezone timezonename}

Syntax Description	set	Sets the device clock to the date and time provided.
	hh:mm:ss	Current time to which the GSS device clock is being reset, using two
		digits for the hours, minutes, and seconds.
	MONTH DD YYYY	Current date to which the GSS device clock is being reset using the full name of the month, a two digit day and four digit year. The following month names are recognized:
		• January
		• February
		• March
		• April
		• May
		• June
		• July
		• August
		• September
		• October
		• November
		• December
	timezone	Sets the device to recognize the time zone provided as its time zone.
	timezonename	The name of the timezone. Enter ? to list all supported timezone names.
Defaults	No default behavior or va	lues
Command Modes	EXEC	
Examples	In the following examples	s, the clock command is used to set the GSS device time and timezone.

Host# clock set 13:01:05 march 24 2003 Host# clock timezone GMT
### configure

To enter global configuration mode, use the **configure** command in privileged EXEC mode. You must be in global configuration mode to enter global configuration commands.

#### configure

To exit global configuration mode, use the end, Ctrl-Z, or exit commands.

Syntax Description	This command ha	as no arguments	or keywords.
--------------------	-----------------	-----------------	--------------

Defaults	No default behavior or values
----------	-------------------------------

Command ModesPrivileged EXEC

Usage Guidelines The configure command is a privileged-level command, so you must enter enable before entering configure.

Examples Host> enable Host# configure Host(config)#

Related Commands Ctrl-Z end exit

### сору

To copy configuration settings to or from the GSS device, use the copy command.

copy {disk startup-config filename | startup-config disk filename | running-config
 [disk filename | startup-config] }

Syntax Description	disk startup-config	Loads the GSS device startup configuration settings from a named file located on the GSS.	
	startup-config disk	Copies the GSS device startup configuration to a named file on the GSS.	
	running-config disk	Copies the GSS device current running configuration to a named file on the GSS.	
	running-config startup-config	Copies the GSS device current running configuration as the new startup configuration.	
	filename	Name of the output file containing startup- config or running-config information.	
Defaults	No default behavior or values		
Command Modes	EXEC		
Usage Guidelines	When supplying an output filename enter the name only. Do not include path information with the file name.		
Examples	In the following examples, the <b>copy</b> command is used to load a new startup configuration to the device from a file, and to copy the current running configuration to a file.		
	Host# <b>copy disk startup-config</b> Host# <b>copy running config disk</b>	configfile runconfigfile	
Related Commands	scp		
	ftp		

# del

Use the **del** command to delete files from your GSS device.

del filename

Syntax Description	<i>filename</i> Name of the file to be deleted
Defaults	No default behavior or values
Command Modes	Privileged EXEC
Examples	Host> <b>enable</b> Host# <b>del</b> oldtechrept.tgz Host#
Related Commands	copy delete-secure-key

del

### delete-secure-key

To remove the private key used for secure-key content authentication on the GSS, use the **delete-secure-key** privileged EXEC command.

#### delete-secure-key

Syntax Description This command has no arguments or keywords.

Defaults No default behavior or values

### Command ModesPrivileged EXEC

Examples Host> enable Host# delete-secure-key delete keys Host#

dir

### dir

To view a long list of files in a directory, use the **dir** EXEC command.

**dir** [directory]

Syntax Description	directory	(Optional) Name of the di	irectory to list.
Defaults	No default behav	vior or values	
Command Modes	EXEC		
Usage Guidelines	Use this commar names, sizes, and	nd to view a detailed list of files con l time created. The equivalent com	ntained within the working directory, including mand is <b>lls</b> .
Examples	Host# <b>dir</b> size	time of last change	name
	3931934 431 431 431 1453 1024	Tue Sep 19 10:41:32 2000 Mon Sep 18 16:57:40 2000 Mon Sep 18 17:27:46 2000 Mon Sep 18 16:54:50 2000 Tue Sep 19 10:34:03 2000 Tue Sep 19 10:41:31 2000 <din< td=""><td><pre> errlog-cache-20000918-164015 ii.cfg ii4.cfg iii.cfg syslog.txt R&gt; testdir</pre></td></din<>	<pre> errlog-cache-20000918-164015 ii.cfg ii4.cfg iii.cfg syslog.txt R&gt; testdir</pre>
Related Commands	ls		

lls

## disable

To turn off privileged EXEC mode, use the disable command in privileged EXEC mode. disable Syntax Description This command has no arguments or keywords. Defaults No default behavior or values **Command Modes** Privileged EXEC **Usage Guidelines** The disable command places you in user EXEC mode. To turn privileged EXEC mode back on, use the enable command. Examples Host# disable Host> **Related Commands** enable exit

### dnslookup

To resolve a host or domain name to an IP address, use the dnslookup EXEC command.

**dnslookup** {*hostname* | *domainname*}

```
Syntax Description
                     hostname
                                            Name of host on the network.
                     domainname
                                            Domain name.
Defaults
                    No default behavior or values
Command Modes
                    EXEC
Examples
                    In the following examples, the dnslookup command is used to resolve the host name myhost.cisco.com
                    to IP address 172.31.69.11, cisco.com to IP address 192.168.219.25, and the IP address 10.0.11.0 to
                    thehost.cisco.com.
                    Host# dnslookup myhost
                    official hostname: myhost.cisco.com
                               address: 172.31.69.11
                    Host# dnslookup cisco.com
                    official hostname: cisco.com
                             address: 192.168.219.25
                    Host# dnslookup 10.0.11.0
                    official hostname: thehost.cisco.com
                               address: 10.0.11.0
```

## enable

To access privileged EXEC commands, use the enable EXEC command. enable Syntax Description This command has no arguments or keywords. Defaults No default behavior or values **Command Modes** EXEC **Usage Guidelines** To access privileged EXEC mode from user EXEC mode, use the enable command. The disable command takes you from privileged EXEC mode to user EXEC mode. Examples Host> enable Host# **Related Commands** disable exit

### end

To exit the EXEC of	or global configuration command	l shell, use the <b>end</b> EXE	C or global configuration
command.			

end

Syntax Description	This command has no arguments or keywords.
Defaults	No default behavior or values
Command Modes	Global configuration
Usage Guidelines	Use the <b>end</b> command in any configuration mode to return to EXEC mode. This is equivalent to the <b>Ctrl-Z</b> or the <b>exit</b> command.
	The end command issued in the user-level EXEC shell terminates the console or Telnet session.
Examples	Host(config)# end Host# end Host>
Related Commands	Ctrl-Z

exit

### exec-timeout

To modify the length of time that must expire before a GSS device automatically logs off an inactive user, use the **exec-timeout** global configuration command.

exec-timeout *minutes* 

no exec-timeout

	minutes	Length of time, in minutes, that accounts must be inactive before they are timed out (0 to 44,640 minutes).
Defaults	The default time	out for a GSS device is 150 minutes.
Command Modes	Global configura	tion
Usage Guidelines	Use the <b>exec-time</b> a user logged on terminated. Users setting.	eout command in global configuration mode to lengthen or shorten the period for which to a GSS device in EXEC-mode must be idle before the session is automatically s logged on to GSS devices in CONFIG-mode are not affected by the exec-timeout
	Use the <b>no</b> - form of 150 minutes or	of this command to erase the exec-timeout setting and restore the default timeout value n the GSS device.
Examples	- Host(config)# <b>e</b>	xec-timeout 10

# exit

	To access the EXEC command shell from the global, interface, and debug configuration command shells, use the <b>exit</b> EXEC, global configuration, and interface configuration command.
	exit
Syntax Description	This command has no arguments or keywords.
Defaults	No default behavior or values
Command Modes	EXEC, global configuration, and interface configuration
Heere Cuidelinee	

**Usage Guidelines** Use the exit command in any configuration mode to return to EXEC mode. This is equivalent to the Ctrl-Z or the end command.

The exit command issued in the user-level EXEC shell terminates the console or Telnet session.

Examples Host(config)# exit Host# exit Host>

**Related Commands** end

ftp

# ftp

To enable File Transfer Protocol (FTP) or launch an FTP session on your GSS device, use the **ftp** EXEC and global configuration command. Use the **no** form of this command in global configuration mode to disable FTP on your GSS device.

ftp enable

no ftp enable

Syntax Description	enable Enables FTP server on the selected device.
Defaults	FTP is disabled on your GSS device by default.
Command Modes	EXEC and global configuration
Usage Guidelines	Use the <b>ftp enable</b> command in global configuration mode to enable the FTP server on the selected device. Use the <b>ftp</b> command in EXEC or global configuration mode to launch the FTP client, which can be used to transfer a file to and from remote machines.
Examples	Host(config)# <b>ftp enable</b> Host# <b>ftp</b>
Related Commands	show ftp telnet scp

### fullduplex

To configure an interface for full-duplex operation, use the **fullduplex** interface configuration command. To disable this function, use the **no** form of this command.

fullduplex

no fullduplex

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

- **Defaults** No default behavior or values
- Command Modes Interface configuration
- Usage Guidelines Use this command to configure an interface for full-duplex operation. Full duplex allows data to travel in both directions at the same time through an interface or a cable. A half-duplex setting ensures that data only travels in one direction at any given time. Although full duplex is faster, the interfaces sometimes cannot operate effectively in this mode. If you encounter excessive collisions or network errors, configure the interface for half duplex rather than full duplex.

### Examples Host(config)# interface eth0 Host(config-eth0)# fullduplex Host(config-eth0)# no fullduplex

Related Commands halfduplex

#### gss

### gss

To manage your GSS devices, use the gss privileged EXEC command.

#### gss {enable { gssm-primary | gssm-standby { primary\_GSSM\_hostname | primary\_GSSM\_IP\_address} | gss { primary\_GSSM\_hostname | primary\_GSSM\_IP\_address} } ] | restart | start | starts | stop | tech-report filename }

#### Syntax Description

enable	Enables the selected device to act as the type of device you
	specifyeither a GSSM or GSS
gssm-primary	Configures the selected device to act as the primary Global Site Selector Manager (GSSM) for your GSS network, responsible for maintaining status information on GSS devices as well load balancing information that is distributed to devices on the network
gssm-standby	Configures the selected device to act as a standby GSSM which will take over GSS network management should the primary GSSM go offline
primary_GSSM_hostname	The DNS hostname of the device currently serving as the primary GSSM
primary_GSSM_IP_address	The network address of the device currently serving as the primary GSSM
gss	Indicates that the selected device should serve as a Global Site Selector (GSS) on the GSS network
restart	Restarts the GSS software on the selected device after it has been stopped
start	Starts the GSS software on the selected device following initial configuration or a software upgrade.
status	Displays detailed information on the current operating state of the GSS device including online status, software version, and CPU and memory usage for various GSS components
stop	Stops the GSS software prior to a software upgrade or other maintenance or troubleshooting activities
tech-report	Generates a detailed report for use by Cisco Technical Assistance Center (TAC) representatives in troubleshooting persistent GSS problems. The file generated is a tar- format archive file with a .tgz extension
filename	The user-assigned name for the report generated by the tech-report command

### Defaults

No default behavior or values

#### Command Modes Privileged EXEC

#### **Usage Guidelines**

The gss command provides a variety of options for managing your GSSs and GSS Managers, including:

- Designating individual devices to act as either Global Server Load Balancers, primary Global Site ٠ Selector Managers, or standby Global Site Selector Managers using the gssm-primary, and gssm-standby gss command options
- Control the GSS servers on the device so that you can perform required maintenance and software upgrades using the start, stop, and restart commands
- Outputting a detailed status report on the device for use by the Cisco TAC when troubleshooting • using the **tech-report** command

#### **Examples**

Host#gss stop

Host#gss status Cisco GSS(1.0.0.22.3) GSS Manager - primary [Wed Jul 10 18:45:25 UTC 2002] Normal Operation [runmode = 5] %CPU %MEM START PID SERVER 0.0 0.3 16:23 900 system 0.0 0.4 16:23 1170 database 0.0 1.6 16:23 1175 tomcat 0.0 0.1 16:23 1459 apache 0.0 2.2 16:23 1184 crm crdirector 0.0 1.6 16:23 1216 0.0 0.1 16:23 1201 dnsserver 0.0 0.1 16:23 1240 keepalive 0.0 0.1 16:23 1220 boomerang 0.0 1.6 16:23 1035 nodemgr 0.0 0.0 16:23 419 sysloqd ucd-snmpd [DISABLED] \_\_\_ \_ \_ \_ \_ \_ \_ \_ \_ \_

#### **Related Commands**

gssm

gss-communications

gss-tcp-keepalives

# gss-communications

To designate the current interface as the interface that will be used for GSS inter-device communicationon, use the **gss-communications** interface configuration command. To disable inter-device communications on the selected interface, use the **no** form of this command.

gss-communications

no gss-communications

Syntax Description	No arguments or keywords.
Defaults	The first ethernet interface (eth0) is used for inter-device communications by default.
Command Modes	Interface configuration
Examples	Host(config)# interface eth0 Host(config-eth0)#gss-communications
Related Commands	gss gss-tcp-keepalives interface

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### gss-tcp-keepalives

To designate the current interface as the interface that will be used for GSS keepalive communication, use the **gss-tcp-keepalives** interface configuration command. To disable keepalive communications on the selected interface, use the **no** form of this command.

#### gss-tcp-keepalives

no gss-tcp-keepalives

No arguments or keywords.
The first ethernet interface (eth0) is used for keepalive traffic by default
Interface configuration
Host(config)# interface eth0 Host(config-eth0)#gss-tcp-keepalives
gss gss-communications interface

### gssm

To manage your primary and standby Global Site Selector Managers and your GSS database, use the **gssm** privileged EXEC command.

gssm backup {database filename | full filename }| database {create | delete | invalidate | maintain | purge-log-records {count number\_records | days number\_days } | report | status | validate }| primary-to-standby | restore filename | standby-to-primary

backup	Performs a backup of GSSM data on the GSS device.					
database	Back up only the PostgreSQL database component of the GSSM, including device configuration information, DNS Rules, and other GSS network components					
filename	Name of the database backup file. This can be the target file for a database backup action, or the source file for a database restore action.					
full	Back up both the database component of the GSSM and its network and device configuration information					
database	Create, configure, or remove the embedded PostgreSQL database on the GSSM					
create	Creates the embedded, PostgreSQL database on the GSSM that stores an manages configuration information for the GSS network					
delete	Deletes the GSSM database from the GSS device					
invalidate	Invalidates GSSM database records.					
maintain	Grooms the GSSM database, defragmenting and optimizing space allocation					
restore	Restores the GSSM database from backup file named.					
purge-log-records	Purges database records from the GSSM database for a specified period.					
count	Purges a quantity of database records up to the last X records					
number_records	The number of database records back from the last record that will be retained when the database is purged					
days	Purges records covering a set time period up to X days before today					
number_days	The number of days back from today for which database records will be retained when the database is purged					
all	Purges all database records on the GSSM database.					
count	Purges all database records up to the last <i>number</i> records in the database.					
number	A variable representing the last x records in the database that are retained when purging the GSSM database.					
days	Purges all database records except those created in the last <i>number</i> days.					
number	A variable representing the last x days of activity to be retained when purging the GSSM database.					
report	Generates and displays a report that identifies invalidated database records in the GSSM database.					
status	Reports the current running status of GSSM database.					
validate	Validates GSSM database records.					
primary-to-standby	Changes the GSSM role from primary- to standby GSSM					
	backupdatabasefilenamefulldatabasefulldatabasecreatedeleteinvalidatemaintainrestorepurge-log-recordscountnumber_recordsdaysnumber_daysallcountnumberdaysnumberstatusvalidateprimary-to-standby					

	restore	Restores the GSSM from a full backup file					
	<i>filename</i> The name of the full GSSM backup image that will be used to redevice						
	standby-to-primary	Changes the GSSM role from standby to primary					
Defaults	No default behavior or	values					
Command Modes	Privileged EXEC						
Usage Guidelines	Use the <b>gssm database</b> command to manage the embedded PostgreSQL GSS database. The various command options allow you to monitor the status of your database as well as perform standard maintenance tasks such as backing up and restoring the database, validating database content, and purging records.						
	Use the <b>gssm standby-to-primary</b> and <b>primary-to-standby</b> command options to switch the role of the selected GSSM in your GSS network.						
	Use the <b>restore</b> command option to restore an earlier version of the GSSM from a full backup image.						
Examples	In the following examples, the <b>gssm database</b> command is used to check the running status of the GSSM embedded database, back up the database to a file, purge all database records except for the last 50, and delete the database.						
	Host <b># gssm database r</b> GSSM database validat Host <b># gssm database s</b> GSSM database is runr Host <b># gssm database v</b> GSSM database passed Host <b># gssm primary-to</b> Standby GSSM enabled. Host <b># gssm standby-to</b> Standby GSSM disabled	<pre>steport sion report written to validation.log status hing. validate validation. &gt;-standbyprimary 1.</pre>					
Related Commands	gss						
	gss-communications						
	gss-tcp-keepalives						

### halfduplex

To configure an interface for half-duplex operation, use the **halfduplex** interface configuration command. To disable this function, use the **no** form of this command.

halfduplex

no halfduplex

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

- Defaults No default behavior or values
- Command ModesInterface configuration
- Use this command to configure an interface for half-duplex operation. Full duplex allows data to travel in both directions at the same time through an interface or a cable. A half-duplex setting ensures that data only travels in one direction at any given time. Although full duplex is faster, the interfaces sometimes cannot operate effectively in this mode. If you encounter excessive collisions or network errors, configure the interface for half duplex rather than full duplex.
- Examples Host(config)# interface eth0 Host(config-eth0)# halfduplex

Host(config-eth0)# no halfduplex

Related Commands fullduplex

# help

To obtain online help for the command-line interface, use the **help** EXEC or global configuration command.

help

Syntax Description	This command has no arguments or keywords.
Defaults	No default behavior or values
Command Modes	EXEC and global configuration
Usage Guidelines	You can get help at any point in a command by entering a question mark (?). If nothing matches, the help list will be empty, and you must back up until entering a ? shows the available options.
	Two styles of help are provided:
	• Full help is available when you are ready to enter a command argument (for example, <b>show</b> ?) and describes each possible argument.
	• Partial help is provided when you enter an abbreviated command and you want to know what arguments match the input (for example, <b>show clock</b> ?).
Examples	Host# help Host# help copy ?

### hostname

To configure the network name of the GSS device, use the **hostname** global configuration command. To reset the host name to the default setting, use the **no** form of this command.

hostname name

no hostname name

Syntax Description	nameNew host name for the GSS device; the name is case sensitive. The name may be from 1 to 22 alphanumeric characters.							
Defaults	The default host name is localhost.localdomain.							
Command Modes	Global configuration							
Usage Guidelines	Use this command to configure the host name for the GSS device. The host name is used for the command prompts and default configuration filenames. The <b>no</b> form of this command erases the configured host name and restores the default value.							
	For the purposes of GSS inter-device communications, the hostname should be configured on the same interface (eth0 or eth1) that is being used for GSS communications, as set using the <b>gss-communications</b> command.							
Examples	The following example changes the host name to gss1.cisco.com.							
	gssl.cisco.com(config)#							
	The following example removes the host name.							
	gssl.cisco.com(config)# <b>no hostname gssl.cisco.com</b> localhost.localdomain(config)#							
Related Commands	ass-communications							
	interface							
	ip							

### install

To install a new version of the GSS software on your GSS device, use the **install** privileged EXEC command.

install filename

Syntax Description	<i>filename</i> The name of the software update file.						
Command Modes	Privileged EXEC						
Usage Guidelines	Use this command to hardware. The upgrac command.	install a new image of the GSS software on the Cisco Global Site Selector de file must be present on the Global Site Selector before you execute this					
Examples	The following examp Host# install /gss.	le installs an updated version of the GSS software.					
Related Commands	show version						

### interface

To configure a GSS Ethernet interface, use the **interface** global configuration command.

**interface Ethernet {0 | 1} {autosense | bandwidth** *mbits* | **exit | fullduplex | halfduplex | ip address** *ip-address netmask* | **no | gss-communications | shutdown}** 

Syntax Description	Ethernet	Selects which of the Global Site Selector's two interfaces will be configured.						
	0	The first network interface.						
	1	The second network interface.						
	autosense	Sets interface to autosense.						
	bandwidth	Sets bandwidth of specified interface.						
	mbits	Bandwidth of interface in megabits per second (Mbps) (10, 100, or 1000).						
	exit	Exits interface configuration mode and returns you to configuration mode.						
	fullduplex	Sets interface to full-duplex operation.						
	halfduplex	Sets interface to half-duplex operation.						
	ip address	Sets IP address and subnet mask of the interface.						
	ip-address	IP address of interface.						
	netmask	Netmask of interface.						
	no	Negates the selected command or restores its default values.						
	gss-communications	Sets the current interface as the primary interface for the device, which is						
		used for all GSS-related communications.						
	shutdown	Shuts down the specified interface.						
Defaults	No default behavior or values							
Command Modes	Global configuration							
Usage Guidelines	Use the <b>interface</b> command to configure your GSS device Ethernet interfaces (0 or 1). Commands can be issued directly from global configuration mode, or you can use the <b>interface</b> command to enable interface configuration mode, which makes it easier to configure multiple interface parameters.							
	To display the interface identifiers (for example, interface Ethernet 0), use the <b>show running-config</b> or <b>show startup-config</b> commands. The <b>autosense</b> , <b>bandwidth</b> , <b>fullduplex</b> , <b>halfduplex</b> , <b>ip</b> , and <b>shutdown</b> commands are listed separately in this command reference.							
Examples	The following example configures an attribute of GSS interface Ethernet 0 with a single CLI command.							
	Host(config)# interface eth0 half-duplex							
	An interface can be configured in a sequence of CLI commands as follows.							
	Host(config)# interface eth0							

```
Host(config-eth0)# half-duplex
Host(config-eth0)# exit
Host(config)#
```

Related Commands she

show interface show running-config show startup-config

### ip

ip

To change initial network device Internet Protocol configuration settings, use the **ip** global configuration command. To delete or disable these settings, use the **no** form of this command.

Syntax Description	default-gateway	Specifies the default gateway (if not routing IP).				
	ip-address	IP address of default gateway.				
	domain-name	Specifies the domain name.				
	name	Domain name.				
	name-server	Specifies the address of the name server.				
	ip-addresses	IP addresses of name servers (up to a maximum of 8).				
	route	Specifies the net route.				
	destination_address	Destination route address.				
	netmask	Netmask.				
	gateway	Gateway address.				
Defaults	No default behavior or va	llues				
Command Modes	Global configuration					
Usage Guidelines	To define a default gateway, use the <b>ip default-gateway</b> global configuration command. To delete the IP default gateway, use the <b>no</b> form of this command. The GSS uses the default gateway to route IP packets when there is no specific route found to the destination.					
	To define a default domain name, use the <b>ip domain-name</b> global configuration command. To remove the IP default domain name, use the <b>no</b> form of this command. The GSS appends the configured domain name to any host name that does not contain a domain name. The appended name is resolved by the DNS server and then added to the host table. The GSS must have at least one domain name server specified for the host name resolution to work correctly.					
	To specify the address of one or more name servers to use for name and address resolution, use the <b>ip name-server</b> global configuration command. You can specify up to eight name servers for the GSS device. To disable IP name servers, use the <b>no</b> form of this command.					
	To configure static IP routing, use the <b>ip route</b> global configuration command. To disable an IP routing, use the <b>no</b> form of this command.					
	Use the <b>ip route</b> command to add a specific static route for a network host. Any IP packet designated for the specified host uses the configured route.					
Fxamples	Host(config)# in defau	1t-gateway 192.168.7.18				

Host(config)# no ip default-gateway
Host(config)# ip route 172.16.227.128 172.16.227.250
Host(config)# no ip route 172.16.227.128 172.16.227.250
Host(config)# ip domain-name cisco.com
Host(config)# no ip domain-name
Host(config)# ip name-server 10.11.12.13
Host(config)# no ip name-server 10.11.12.14

**Related Commands** show ip routes

### ip address

To configure the IP address of a GSS device network interface, use the **ip address** interface configuration command. To disable a specific network address, use the **no** form of this command.

**ip address** {*ip-address ip-subnet*}

**no ip address** {*ip-address ip-subnet*}

Syntax Description	<i>ip-address</i> IP address.						
	ip-subnet	IP subnet mask.					
Defaults	No default behavior or values						
Command Modes	Interface configur	ration					
Usage Guidelines	Use this command to set or change the IP address and subnet mask of the GSS network interfaces.						
	The <b>ip address</b> interface configuration command allows configuration of secondary IP addresses for a specified interface as follows.						
	Host(config)# <b>interface eth0</b> Host(config-eth0)# <b>ip address</b> <i>ip-address ip-subnet</i>						
	The same IP address cannot be assigned to more than one interface. The following command configures the IP address for the GSS communications interface.						
	Host(config-eth0)# <b>ip address ip-address ip-subnet</b> gss-communications						
	Use the <b>no</b> form of the command to disable a specific IP address.						
	Host(config-eth(	))# no ip address <i>ip-address ip-subnet</i>					
<u> </u>	No two interfaces	can have IP addresses in the same subnet.					

Host(config-eth0)# ip address 10.10.10.10 255.0.0.0

Host(config-eth0)# no ip address

**Examples** 

# lls

To view a long list of directory names, use the **lls** user EXEC, privileged EXEC, and global configuration command.

**lls** [directory]

Syntax Description	directory		(Optional	) Name of th	e dir	ecto	ory for	which you want a long list of files.
Defaults	No default be	o default behavior or values						
Command Modes	User EXEC, privileged EXEC, and global configuration							
Usage Guidelines	This comman directory (inc command car	d provides c luding size 1 also be use	letailed info , date, time ed to perfor	ormation abo of creation, rm the same	ut fil sysfs funct	es a s na tion	ind sub me, and	directories stored in the present working d long name of the file). The <b>dir</b>
Examples	Host# <b>11s</b>							
	total 97684	1		20	M	0	01.04	
	-rw-rr	1 root	root	39 99706921	Mar	8	15.33	JVM_EXII_CODE
	-rw-rr	1 root	root	99700921	Mar	14	21:23	RINMODE
	-rw-rr	1 root	root	33427	Mar	14	21:23	ass.log
	drwxr-xr-x	2 root	root	4096	Mar	7	16:22	admin
	drwxr-xr-x	3 root	root	4096	Mar	7	18:05	apache
	-rw-rr	1 root	root	117	Mar	7	18:05	audit.log
	srwxr-xr-x	1 root	root	0	Mar	7	15:40	cli_config
	srwxr-xr-x	1 root	root	0	Mar	7	15:40	cli_exec
	drwxr-xr-x	14 root	root	4096	Mar	7	18:05	core-files
	-rw-rr	1 root	root	61	Mar	14	21:23	datafeed.cfg
	srwxrwxrwx	1 root	root	0	Mar	7	15:40	dataserver-socket
	-rw-rr	1 root	root	18	Mar	7	15:39	nicinfo.cfg
	-rw-rr	1 root	root	5072	Mar	7	18:05	node.state
	drwxrwxrwx	2 root	root	4096	Mar	8	21:04	pid
	-rw-rw-rw-	1 root	root	9127	Mar	14	21:23	props.cfg
	-rw-rr	l root	root	63	Mar	14	21:23	runmode-comment
	-rw-rr	1 root	root	553	Mar	8	21:02	running.cig
	urwxr-xr-x	4 100t	root	4096	Mar	07	10.04	squid
	drwyr-yr-y	2 root	root	4096	Mar	7	15.40	sysmessayes.log
	drwxrwxrwx	2 root	root	4096	Mar	, 8	21:02	sysout
	-rw-rr	1 root	root	41652	Mar	14	21:23	system.log
Related Commands	dir							
	ls							
	lsof							

# logging

To configure system logging on your GSS device, use the **logging** global configuration command. To disable logging functions, use the **no** form of this command.

logging {disk {enable | priority loglevel | subsystem name priority loglevel} | host {enable | ip
 ip\_addresses| priority loglevel | subsystem name priority loglevel}}

no logging {disk {enable | priority loglevel | subsystem name priority loglevel} | host {enable |
ip ip\_addresses| priority loglevel | subsystem name priority loglevel}}

Syntax Description	disk	Sets log to disk file.				
	enable	Enables log to disk or host.				
	priority	Sets which priority level messages to log.				
	loglevel	Identifies the threshold that system messages must meet in order to be logged. Messages with lower priorities than the loglevel specified will not be logged. Use one of the following keywords when selecting the loglevel:				
	• alerts	Immediate action needed. Priority 1.				
	critical	Immediate action needed. Priority 2.				
	• debugging	Debugging messages. Priority 7.				
	• emergencies	System is unusable. Priority 0.				
	• errors	Error conditions. Priority 3.				
	informational	Informational messages. Priority 6.				
	notifications	Normal but significant conditions. Priority 5.				
	warnings	Warning conditions. Priority 4.				
	subsystem	Sets the log for a named GSS subsystem. Each subsystem can have a different log level applied for its messages.				
	name	Name of the GSS subsystem. Use one of the following keywords:				
	• crm	Global Site Selector Manager (GSSM) logging messages.				
	crdirector	CrDirector logging messages.				
	keepalive	KeepAlive engine logging messages.				
	• nodemgr	Node manager logging messages.				
	• dnsserver	Domain Name System (DNS) logging messages.				
	• system	System logging messages.				
	host	Sets log to a remote host machine.				
	ip	Sets the remote host or hosts that will receive GSS log files.				
	ip_addresses	Address or addresses of the remote logging hosts.				

#### Defaults

Logging: enabled

Priority of message for console: [?] Priority of message for file: [?]

Log filename: /...syslog.txt

	Log file recycle size: [?] bytes
Command Modes	Global configuration
Usage Guidelines	Use this command to set specific parameters of the system log file. Decisions about what level of logging to use can be made globally, or configured on a subsystem-by-subsystem basis. For example, you could configure the Global Site Selector Manager (GSSM) to log all error-level messages, but the node manager (nodemgr) to log a larger set of all notice-level messages.
	To configure the GSS to send varying levels of event messages to an external syslog host, use the <b>logging host subsystem</b> option. Logging can be configured to send various levels of messages to disk using the <b>logging disk subsystem</b> option.
Examples	Host(config)# logging disk priority error Host(config)# logging host 10.1.2.3 priority notice
	Host(config)# logging disk subsystem crdirector priority information Host(config)# logging host subsystem kale priority error
	Host(config)# no logging disk priority error

Related Commands show logging

### S

ls

To view a list of files or subdirectory names within a directory, use the **ls** user EXEC, privileged EXEC, and global configuration command.

**ls** [directory]

Syntax Description	directory	(Optional) Name of the directory for which you want a list of files.
Defaults	No default behavi	or or values
Command Modes	User EXEC, privi	leged EXEC, and global configuration
Usage Guidelines	To list the filenam list the filenames present working d	hes and subdirectories within a particular directory, use the <b>ls</b> <i>directory</i> command; to and subdirectories of the current working directory, use the <b>ls</b> command. To view the <b>li</b> rectory, use the <b>pwd</b> command.
Examples	Host# 1s admin cli_exec dump http-users merlot.log pid squid system.log node.state running.cfg sysout trace.log	
Related Commands	dir	
	lls	
	Isof	
	pwd	

### lsof

To view a list of all open files on your GSS device, use the lsof EXEC command.

lsof

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

**Defaults** No default behavior or values

Command Modes Privileged EXEC

Usage Guidelines To list the names, file properties, and locations of all files that are currently open on your GSS device, use the **lsof** command.

Examples	Host# <b>lso</b> :	E							
	COMMAND	PID	USER	FD	TYPE	DEVICE	SIZE	NODE	NAME
	init	1	root	cwd	DIR	8,7	4096	2	/
	init	1	root	rtd	DIR	8,7	4096	2	/
	init	1	root	txt	REG	8,7	25968	492	/sbin/init
	init	1	root	mem	REG	8,7	341331	29	/lib/ld-2.1.3.so
	init	1	root	mem	REG	8,7	4105868	36	/lib/libc-2.1.3.so
	init	1	root	0u	unix	0xf7f86f40		5851	socket
	init	1	root	10u	FIFO	8,8		4098	/rw/dev/initctl
	kflushd	2	root	cwd	DIR	8,7	4096	2	/
	kflushd	2	root	rtd	DIR	8,7	4096	2	/
	kflushd	2	root	0u	unix	0xf7f86f40		5851	socket
	kflushd	2	root	10u	FIFO	8,8		4098	/rw/dev/initctl
	kupdate	3	root	cwd	DIR	8,7	4096	2	/
	kupdate	3	root	rtd	DIR	8,7	4096	2	/
	kupdate	3	root	0u	unix	0xf7f86f40		5851	socket
	kupdate	3	root	10u	FIFO	8,8		4098	/rw/dev/initctl
	kswapd	4	root	cwd	DIR	8,7	4096	2	/
	kswapd	4	root	rtd	DIR	8,7	4096	2	/
	kswapd	4	root	0u	unix	0xf7f86f40		5851	socket
	kswapd	4	root	10u	FIFO	8,8		4098	/rw/dev/initctl
	keventd	5	root	cwd	DIR	8,7	4096	2	/
	keventd	5	root	rtd	DIR	8,7	4096	2	/
	keventd	5	root	0u	unix	0xf7f86f40		5851	socket
	keventd	5	root	10u	FIFO	8,8		4098	/rw/dev/initctl

• • •

Related Commands	dir
------------------	-----

- ls
  - lls
  - pwd

lsof

### no

To undo a global configuration command or set its defaults, use the **no** form of a global configuration command to undo the original command.

no command

#### Syntax Description

access-group	Assigns access lists to GSS ethernet interfaces.	
access-list	Creates GSS access lists.	
autosense	Enables a GSS interface to automatically select the correct mode for communicating with another device.	
bandwidth	Configures bandwidth for a GSS interface.	
сору	Copies GSS configuration information or technical support information to and from a disk.	
exec-timeout	Sets the CLI session timeout in minutes.	
ftp	Enables File Transfer Protocol (FTP) on a GSS device.	
fullduplex	Configures a GSS device for full-duplex data transfers.	
gss-communications	Configures the interface for communication between GSS devices.	
gss-tcp-keepalives	Configures the interface for use receiving TCP keepalive information.	
halfduplex	Configures a GSS device for half-duplex data transfers.	
help	Provides assistance for using CLI commands.	
hostname	Configures the system's network name.	
interface	Configures a GSS Ethernet interface.	
ip	Changes the configuration of Internet Protocol (IP) on the GSS device.	
logging	Configures system logging (syslog).	
ntp-server	Configures the Network Time Protocol source	
property	Sets GSS configuration properties.	
show	Displays running system configuration information.	
ssh	Enables Secure Shell (SSH) on the GSS device.	
telnet	Enables Telnet operations on the GSS device.	
terminal-length	Sets the number of rows of GSS output displayed ona console.	
username	Configures username authentication on the GSS device.	
write	Copies the current GSS running configuration as the new device startup configuration.	

#### Defaults

No default behavior or values

Command Modes

Interface configuration, global configuration

Usage Guidelines Use the no command to disable functions or negate a command. If you need to negate a specific command, such as the default gateway IP address, you must include the specific string in your command, such as no ip default-gateway *ip-address*.

Examples Host(config)# no ip name-server 10.11.12.14

Host(config)# no ntp server 172.16.22.44

### ntp-server

To configure the Network Time Protocol (NTP) and to allow the system clock to be synchronized by a time server, use the **ntp-server** global configuration command. To disable this function, use the **no** form of this command.

**ntp-server** {*hostname* | *ip-address*}

**no ntp-server** {*hostname* | *ip-address*}

Syntax Description	hostname	Host name of the time server providing the clock synchronization (maximum of 4).				
	ip-address	IP address of the time server providing the clock synchronization (maximum of 4).				
Defaults	The default NTP	version number is 3.				
Command Modes	Global configurat	ion				
Usage Guidelines	Use this command to synchronize the GSS clock with the specified Network Time Protocol server. When specifying more than one server, separate the ntp server addresses using spaces.					
Examples	Host(config)# <b>nt</b> Host(config)# <b>nc</b>	p-server 161.16.22.44 161.100.10.17 o ntp-server 161.16.22.44				
Related Commands	clock					
	show clock					
	show ntp status					
To send ICMP echo packets for diagnosing basic network connectivity on networks, use the **ping** EXEC command.

ping {hostname | ip-address}

<u> </u>	-		
Syntax Description	hostname	Host name of system to ping.	
	ip-address	IP address of system to ping.	
Defaults	No default behavio	or or values	
Command Modes	User and privileged EXEC		
Usage Guidelines	To use this comma your GSS. To forc	and with the <i>hostname</i> argument, be sure that the DNS functionality is configured on the timeout of a nonresponsive host, or to eliminate a loop cycle, press <b>Ctrl-C</b> .	
Examples	Host# <b>ping gss.c</b> PING 172.66.0.0 64 bytes from gs	<b>:isco.com</b> (172.66.0.0) from 10.1.13.5 : 56(84) bytes of data. ss.cisco.com (172.66.0.0): icmp_seq=0 ttl=35 time=57.3 ms	
	64 bytes from gs	s.cisco.com (172.66.0.0): icmp_seq=1 ttl=35 time=55.8 ms	
	64 bytes from gs	s.cisco.com (172.66.0.0): icmp_seq=2 ttl=35 time=55.5 ms	
	64 bytes from gs	s.cisco.com (172.66.0.0): icmp_seq=3 ttl=35 time=57.6 ms	
	64 bytes from gs	s.cisco.com (172.66.0.0): icmp_seq=4 ttl=35 time=55.3 ms	

## property

To manually adjust a system configuration property for your GSS network, use the **property** global configuration command.

property set property\_name property\_value

Syntax Description	set	Sets the GSS system configuration property
	property_name	The name of the property you are manually setting; consult with a Cisco Technical Assistance Center representative for information about a property if you are not sure of its purpose
	property_value	The new property setting
Defaults	No default behavior	or values
Command Modes	Global configuration	
Usage Guidelines	The <b>property</b> command should only be used under the direct supervision of a Cisco Technical Support representative. Modifying system configuration properties can cause GSS devices to restart, or require the GSSM to be manually restarted. In addition, modifying a system configuration property, if done improperly, may adversely affect your GSS network.	
Examples	Host(config)# <b>prop</b>	erty set Gui.Session.Timeout 10

# pwd

	To view the present working directory, use the <b>pwd</b> EXEC command.
	pwd
Syntax Description	This command has no arguments or keywords.
Defaults	No default behavior or values
Command Modes	EXEC
Usage Guidelines	Use this command to display the present working directory of the GSS.
Examples	Host# <b>pwd</b> /admin
Related Commands	cd
	dir
	lls
	ls

## reload

To halt and perform a cold restart on your GSS device, use the **reload** EXEC command. **reload** 

Syntax Description	This command has no argu	uments or keywords.
	0	2

- Defaults No default behavior or values
- Command ModesPrivileged EXEC

Usage Guidelines To reboot the GSS device, use the **reload** command. If no configurations are saved to Flash memory, you are prompted to enter configuration parameters upon restart. Any open connections are dropped after you issue this command.

Examples Host# reload

Related Commands write

## restore-factory-defaults

To reset your GSS device to its initial state, restoring all factory default settings, use the **restore-factory-defaults** command.

#### restore-factory-defaults

Syntax Description	This command has no arguments or keywords.		
Defaults	No default behavior or values		
Command Modes	Privileged EXEC		
Usage Guidelines	Should your GSS device be improperly configured or otherwise malfunctioning, the <b>restore-factory-defaults</b> command can be used to restore the device to its initial state, allowing you to properly configure it for use on your network.		
	The <b>restore-factory-defaults</b> command will erase your GSSM database and all of its data and reset all network settings, returning your GSS hardware to the same state it was in when it first arrived from the factory. Make sure you have backed up any vital data before executing the <b>restore-factory-defaults</b> command.		
Examples	Host# restore-factory-defaults		
Related Commands	restore		

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# rotate-logs

To force the GSS device to restart its log files and rotate out the existing log files, use the **rotate-logs** command, for example:

rotate-logs

Syntax Description	This command has no arguments or keywords.		
Defaults	No default behavior or values		
Usage Guidelines	This command forces the GSS device to save archive copies of all existing log files and replace them with fresh log files. Existing log files are archived locally using the following naming convention:		
	logfile_name.log.~number~		
	where <i>logfile_name</i> .log is name of the archived log file, for example: <i>gss.log</i> or <i>kale.log</i> , and ~number~ is an incremented number representing the number of times the logs have been rotated. For example, ~3~.		
Command Modes	Privileged EXEC		
Examples	Host# rotate-logs		
Related Commands	logging		

#### scp

To securely copy files from a GSS device that you are logged on to, use the scp command in EXEC mode.

scp {source\_path [source\_filename] user@target\_host:target\_path}

To securely copy files from another device to a GSS device you are logged in to, use the **scp** command in EXEC mode.

scp {user@source\_host:/source\_path[source\_filename] target\_path}

Syntax Description	source_path	Relative directory path and file name on the source device of the file that is being transferred.	
	source_filename	Name of the file to be copied.	
	user@target_host	Login account name and host name for the device to which you are copying files.	
	target_path	Relative directory path on the target device to which the file is being copied.	
	user@source_host	Login account name and host name for the device from which you are copying files.	
Defaults	No default behavior or values		
Command Modes	EXEC		
Usage Guidelines	After logging in to the CLI for either the device from which or to which you will be copying, enter the <b>scp</b> command, following the syntax description provided above. You may be prompted to log in to the remote device before you are allowed to navigate to the target directory.		
Examples	Host> scp /tmp/system.log 10.1.2.3	:/cisco/state/dump/home	
	Host> scp 10.0.0.0:/cisco/state/my	gssmfile.log /cisco/state/dump/home	
Related Commands	ftp		

scp

#### show access-group

To display a list of the access-lists associated with your GSS interfaces, use the **show access-group** Global configuration command.

#### show access-group

Syntax Description	This command has no arguments or keywords.
Defaults	No default behavior or values
Command Modes	Global configuration
Usage Guidelines	The <b>show access-group</b> command displays a list of which access lists are attached to each of your two GSS interfaces, eth0 and eth1.
Examples	Host(config)#show access-group
Related Commands	access-group access-list show access-list

## show access-list

To display a list of the access-lists configured on your GSS device, use the **show access-list** global configuration command.

show access-list

Syntax Description	This command has no arguments or keywords.		
Defaults	No default behavior or values		
Command Modes	Global configuration		
Usage Guidelines	The <b>show access-list</b> command displays a list of access lists on your GSS device, regardless of whether they are being used or not. Access lists must beapplied to a particular GSS interface before they can be used to filter GSS traffic.		
Examples	Host(config)# <b>show access-list</b> access-list:alist1 access-list alist1 permit tcp any destination-port eq 80 access-list alist1 deny tcp host 192.168.1.101		
Related Commands	access-group access-list show access-group		

## show clock

To display the system clock, use the **show clock** EXEC command.

show clock

Syntax Description	This command has no arguments or keywords.		
Defaults	No default behavior or values		
Command Modes	EXEC		
Examples	The following example shows date and time information, such as day of the week, month, time (hh:mm:ss), and year in Greenwich mean time (GMT).		
	Host# <b>show clock</b> System time: Wed Apr 28 20:52:48 2002 GMT		

Related Commands clock

## show ftp

To display the status of FTP on your GSS device, use the **show ftp** EXEC command.

show ftp

Syntax Description	This command has no arguments or keywords.
Defaults	No default behavior or values
Usage Guidelines	This command only displays the operating status of FTP and cannot be used to transfer files to or from the GSS device.
Command Modes	EXEC
Examples	In the following example, the <b>show ftp</b> command displays that FTP is enabled. Host# <b>show ftp</b> ftp is disabled
Related Commands	ftp show telnet show ssh

### show interface

To display hardware interface information, use the **show interface** EXEC command.

show interface ethernet {eth0 | eth1}

Syntax Description	eth0	First Ethernet interface (eth0) on your GSS device.	
	eth1	Second Ethernet interface (eth1) on your GSS device.	
Defaults	No default b	ehavior or values	
Command Modes	Privileged E	XEC	
Examples	Host# <b>show</b> Interface e ip addre gss-comm autosens	<b>interface eth0</b> th0 ss 161.10.10.10 255.255.255.0 unications e	
	<pre>Interface Diagnostic output Basic registers of MII PHY #1: 3000 782d 02a8 0154 05el 40al 0003 0000. Basic mode control register 0x3000: Auto-negotiation enabled. You have link beat, and everything is working OK. Your link partner advertised 40al: 100baseTx 10baseT.</pre>		
	Interface s eth0	<pre>tatistics Link encap:Ethernet HWaddr 00:08:A3:4D:74:12 inet addr:161.10.10.10 Bcast:161.10.10.255 Mask:255.255.255.0 UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 RX packets:187837 errors:0 dropped:0 overruns:0 frame:0 TX packets:98285 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:100 Interrupt:9 Base address:0x7400</pre>	

Related Commands interface

show running-config

### show ip routes

To display the IP routing table, use the show ip routes EXEC command.

#### show ip routes

Syntax Description This command has no arguments or keywords.

Defaults No default behavior or values

**Command Modes** Privileged EXEC

Examples

Host# show ip routes

Kernel IP routing	f table						
Destination	Gateway	Genmask	Flag	gs Meti	ric Ref	Use	Iface
172.16.175.0	0.0.0.0	255.255.255.0	U	0	0	0	eth0
10.0.0.0	0.0.0.0	255.0.0.0	U	0	0	0 ]	0
0.0.0.0	172.16.175.1	0.0.0.0	UG	0	0	0	eth0

**Related Commands** ip route

Cisco Global Site Selector Command Reference

# show logging

To display the system message log configuration, use the **show logging** EXEC command.

show logging

Syntax Description	This command has no arguments or keywords.
Defaults	No default behavior or values
Command Modes	Privileged EXEC
Examples	Host# <b>show logging</b> Logging to disk is enabled. Priority for disk logging is Informational(6).
	Logging to host is disabled. Priority for host logging is Warning(4).
Related Commands	log

logging

## show logs

To send the log activity to your current session, use the show log EXEC command.

show logs {follow | tail}

Syntax Description	follow	Displays the log file as data is appended to it.
	tail	Displays only the last 10 lines of the log file.
Command Modes	Privileged EXEC	
Usage Guidelines	Use the <b>show log</b> displays the cont to GSS administr	gs command to send the log activity to your current session. The <b>show logs</b> command ents of the <i>gss.log</i> file, which contains information on GSS activity that is most useful cators.
Examples	To send the GSS	log activity to your current session, enter:
	Host# show logs gss.log Jul 10 17:11:43 Jul 10 17:11:43 Jul 10 17:11:43 Jul 10 17:11:45 Jul 10 17:11:46 Jul 10 17:11:46 Jul 10 17:11:47 Jul 10 17:11:47 Jul 10 17:11:47 Jul 10 17:11:49 processing comm 7' Jul 10 17:11:50 Jul 10 17:11:50	<pre>gssl-css SYS-6-GSS-CTRL[3565] Terminating GSS gssl-css SYS-7-LIB-FILE[3566] Wrote `/cisco/merlot/state/CONTROL' gssl-css SYS-7-LIB-UTIL[3568] Sending kill to nm-notifier pid: 3466 gssl-css NMR-6-NODEMGR[2565] Processing control command. gssl-css NMR-6-NODEMGR[2565] Stopping all servers gssl-css NMR-6-NODEMGR[2565] Stopping the using external kill gssl-css NMR-6-NODEMGR[2565] Stopping the using external kill gssl-css CRD-4-SELECTORCOMMERREOF[2772] EOF gssl-css CRD-4-SELECTORCOMMERREOF[2772] EOF gssl-css CRD-4-SELECTORCOMMERREOF[2772] EOF gssl-css CRD-4-KALECOMMERREOF[2772] EOF gssl-css CRD-4-KALECOMMERREOF[2772] Server KALE changes status from gssl-css NMR-6-NODEMGR[2565] Stopping runmode 3 processes gssl-css NMR-6-NODEMGR[2565] Stopping: crm using external kill gssl-css CRD-4-SERVERSTATUSCHG[2772] server stopped successfully. gssl-css NMR-6-NODEMGR[2565] Stopping runmode 3 processes gssl-css NMR-6-NODEMGR[2565] Stopping: crm using external kill gssl-css CRM-5-ASERVEXIT[2737] Shutting down with exit code ExitStop while hand from '161.44.174.7 gssl-css NMR-6-NODEMGR[2565] Stopping: crdirector using external kill gssl-css NMR-6-NODEMGR[2565] Stopping: apache using external kill</pre>

Related Commands

show logging

logging

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### show memory

To display memory blocks and statistics, use the **show memory** EXEC command.

#### show memory

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

Defaults

No default behavior or values

Command Modes Privileged EXEC

Examples	Host# <b>show</b> :	memory				
•		total:	used:	free:	shared: buffers:	cached:
	Mem: 10733	11744 79802368	993509376		0 10178560 229580	80
	Swap: 26841	4976 0 2	268414976			
	MemTotal:	1048156 kB				
	MemFree:	970224 kB				
	MemShared:	0 kB				
	Buffers:	9940 kB				
	Cached:	22420 kB				
	BigTotal:	131072 kB				
	BigFree:	114784 kB				
	SwapTotal:	262124 kB				
	SwapFree:	262124 kB				

## show ntp

To display the network time protocol (NTP) configuration, use the show ntp EXEC command.

show ntp

Syntax Description	This command has no arguments or keywords.
Defaults	No default behavior or values
Command Modes	User EXEC
Examples	Host# <b>show ntp</b> 161.44.11.18 161.100.9.14
Related Commands	ntp

### show processes

To display a list of GSS processes, use the show processes EXEC command.

#### show processes

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

Defaults

No default behavior or values

Command Modes Privileged EXEC

Examples	Host# show proces	ses			
	NAME	PID	MEM	CPUTIME	START
	system	814	0.3	00:00:00	Mar19
	postgresql	1068	0.4	00:00:00	Mar19
	tomcat	31045	2.0	00:00:01	Mar20
	apache	1321	0.1	00:00:00	Mar19
	controller	1072	2.3	00:00:07	Mar19
	CrDirector	1084	1.7	00:00:03	Mar19
	selector	1536	0.1	00:00:00	Mar19
	kale	1543	0.1	00:00:00	Mar19
	nodemgr	932	1.7	00:00:02	Mar19
	init	1	0.0	00:00:10	Mar19
	kflushd	2	0.0	00:00:00	Mar19
	kupdate	3	0.0	00:00:00	Mar19
	kswapd	4	0.0	00:00:00	Mar19
	keventd	5	0.0	00:00:00	Mar19
	mdrecoveryd	6	0.0	00:00:00	Mar19
	syslogd	286	0.0	00:00:02	Mar19
	klogd	295	0.0	00:00:00	Mar19
	crond	495	0.0	00:00:00	Mar19
	xntpd	655	0.1	00:00:00	Mar19
	sshd	720	0.0	00:00:06	Mar19
	run-merlot	814	0.3	00:00:00	Mar19
	mingetty	835	0.0	00:00:00	Mar19
	mingetty	836	0.0	00:00:00	Mar19
	getty	837	0.0	00:00:00	Mar19
	getty	838	0.0	00:00:00	Mar19
	parser_server	839	0.3	00:00:00	Mar19
	dataserver	840	0.0	00:00:00	Mar19
	java	932	1.7	00:00:02	Mar19

. . .

### show properties

To display a list of configuration property settings for the GSS device, use the **show properties** Privileged EXEC command.

#### show properties

Syntax Description This command has no arguments or keywords.

Defaults

No default behavior or values

Command Modes Privileged EXEC

#### Examples

ipies	Host# <b>show properties</b>	
	logger.default.LocalThreshold	: 7 [default=6]
	ApacheUseNonSecure	: 0
	DataFeed.persistRate	: 600
	DisableJIT	: 0
	Gui.Session.Timeout	: 120
	LogRotateEntry0	: /cisco/merlot/state/gss.log {
	LogRotateEntryl	: /cisco/merlot/state/audit.log {
	LogRotateEntry10	: /cisco/merlot/state/system.log {
	LogRotateEntry11	: /cisco/merlot/state/cdmAuditTrail.log
	{	
	LogRotateEntry2	: /cisco/merlot/state/trace.log {
	LogRotateEntry3	: /cisco/merlot/state/sysMessages.log {
	LogRotateEntry4	: /cisco/merlot/state/sysout/*.log {
	LogRotateEntry5	: /cisco/merlot/state/apache/log/*_log
	{	
	LogRotateEntry6	: /cisco/merlot/state/tomcat/log/*.log
	{	
	LogRotateEntry7	: /cisco/merlot/state/snmpd/snmpd.log {
	LogRotateEntry8	: /cisco/merlot/state/snmpd/snmpd.jnk {
	LogRotateEntry9	:
	/cisco/merlot/state/snmpd/ucd-snmpd.log {	
	Messenger.messageBinMax	: 100
	Messenger.sendRate	: 30000
	NodeMgr.DisableNodeRestart	: 0
	NodeMgr.DisabledRebootSleepTime	: 30
	NodeMgr.MerlotStopKillTimeout	: 12
	NodeMgr.ProcessStopKillTimeout	: 10
	NodeMgr.RmiCommandTimeout	: 15
	NodeMgr.enableFailureReboot	: 0
	NodeMgr.healthCheckInitWaitSec	: 300

Related Commands proj

property

## show running-config

To display the current running configuration information on the terminal, use the **show running-config** EXEC command. This command replaces the **write terminal** command.

#### show running-config

Syntax Description	This command has no arguments or keywords.
Defaults	No default behavior or values
Command Modes	Privileged EXEC
Usage Guidelines	Use this command in conjunction with the <b>show startup-config</b> command to compare the information in running memory to the startup configuration used during bootup.
Examples	<pre>Host# show running-config interface eth0 ip address 10.1.2.46 255.255.255.0 gss-communications hostname gssl.cisco.com ip default-gateway 10.1.2.1 ip name-server 161.31.102.3 gssm database create gssm enable-primary ssh enable telnet enable</pre>
Related Commands	configure copy running-config copy startup-config

### show ssh

To display Secure Shell (SSH) status and configuration information, use the show ssh EXEC command.

show ssh

Syntax Description	This command has no arguments or keywords.
Defaults	No default behavior or values
Command Modes	User EXEC
Examples	Host# <b>show ssh</b> ssh is enabled
Related Commands	ssh

## show startup-config

To display the startup configuration, use the **show startup-config** EXEC command.

#### show startup-config

Syntax Description	This command has no keywords or arguments.
Defaults	No default behavior or values
Command Modes	Privileged EXEC
Usage Guidelines	Use this command to display the configuration used during an initial bootup, stored in nonvolatile random-access memory (NVRAM).
Examples	Host# <b>show startup-config</b> interface eth0 ip address 10.1.2.3 255.255.255.0 gss-communications hostname atcr1.cisco.com ip default-gateway 10.1.2.1 ip name-server 172.31.101.9 gssm database create gssm enable-primary ssh enable telnet enable
Related Commands	configure
	copy running-config
	show running-config

### show statistics

To display GSS load balancing statistics, use the show statistics EXEC command.

show statistics {boomerang {domain domain\_name | global } | dns {answer-group {list |
 group\_name [verbose]} | domain {list | domain\_name [verbose]}| domain-group {list |
 domain\_group\_name [verbose]}| global | rule {list | rule\_name [verbose]}|
 source-address-group {list | source-address\_group\_name [verbose]}} | keepalive {all | cra
 {IP\_address | list}| global | http-head {IP\_address | list} | icmp {IP\_address | list} | kalap
 {IP\_address | list} | ns {IP\_address | list}}}

Syntax Description	statistics	Displays GSS statistics
	boomerang	Displays statistics related to the Boomerange Server component of the GSS
	domain	Displays statistics of the type specified related to the named domain which is being served by the GSS
	domain_name	Name of the domain
	global	Displays statistics across the entire GSS network, or for all resources of the type named currently configured on the GSS
	dns	Displays statistics from the domain name server (DNS) component of the GSS
	answer-group	Displays DNS statistics for a named answer group, including the IP address, hit count, and operating status of member devices
	list	Lists statistics for all resources of the type specified
	group_name	Name of the answer group for which statistics will be displayed
	domain-group	Displays DNS statistics for the GSS domain group specified
	domain_group_name	Displays statistics for a named GSS domain group, including the hit count and success count
	rule	Displays statistics for GSS DNS rules
	rule_name	Name of the DNS Rule for which statistics will be displayed
	source-address-group	Displays statistics for a GSS source address group such as the hit count for all addresses in the list
	sa_group_name	Name of the source address group, containing source address lists for which statistics will be displayed
	verbose	Displays statistics broken out for each contituent part of the named DNS Rule element, for example: each domain that makes up a Domain List.
	keepalive	Displays statistics for the KeepAlive Engine (KALE) component of the GSS
	all	Displays statistics for all configured keepalive types managed by the KALE.
	cra	Displays statistics for configured Content Routing Agent (CRA) keepalive types managed by the KALE and used with Boomerang-type answers
	http-head	Displays statistics for configured http-head keepalive types managed by the KALE and used with VIP-type answers
	icmp	Displays statistics for configured icmp keepalive types managed by the KALE and used with VIP-type answers

	kalap	D K	isplays statistic ALE and used	cs for configured kalap keepalive types managed by the with VIP-type answers
	ns	D by	isplays statistic y the KALE an	es for configured name server (ns) keepalive types managed d used with name server type answers
Defaults	– No default be	havior or value	es	
Command Modes	Privileged E2	KEC		
Usage Guidelines	Use the show component o KeepAlives. as well as rep matching inc command can Answers, or	show statistic f your GSS glo The show stati port on the statu oming DNS rec n be used to vie to analyze the t	s command to o bal server load stics command is of GSS devic quests to Answ w the traffic ha raffic to a parti	display content routing and load balancing statistics for each balancing operation: Boomerang (CRAs), DNS, and is used to gauge DNS traffic to and from your GSS device, ces across your network, and on the success of the device in ers on the GSS network. For example, the <b>show statisics</b> andled by a particular DNS rule, which maches D-proxies to cular hosted domain being managed by the GSS.
	When viewin component of or each doma	g DNS statistic f your DNS Rul iin that makes u	cs, the <i>verbose</i> les, for example up a Domain G	option allows you to view detailed statistics on each e: statistics for each Answer that makes up an Answer Group, roup.
Examples	Host <b># show</b> ; totalHitCour Host <b># show</b> ; totalHitCour	statistics dns nt=0 statistics dns nt=0	s answer-grouj s answer-grouj	p ChrisAGWizard p ChrisAGWizard verbose
			hitCount	and the second
	id 	addr		status
	id  183	addr  10.0.0.0	0 d	status  own
	id  183 185	addr 10.0.0.0 10.1.0.0	0 d 0 d	status own own
	id 183 185 181	addr 10.0.0.0 10.1.0.0 10.2.0.0	0 d 0 d 0 d	status  own own own
	id 183 185 181 Host# <b>show</b> :	addr 10.0.0.0 10.1.0.0 10.2.0.0 statistics rul	0 d 0 d 0 d	status own own own
	id  183 185 181 Host <b># show</b> a totalHitCoun Clause 0	addr 10.0.0.0 10.1.0.0 10.2.0.0 statistics rul ht=0, totalSuc htCount=0 su	le ChrisRR ccessCount=0	status own own own
	id 183 185 181 Host <b># show</b> a totalHitCoun Clause 0 1 id	addr 10.0.0.0 10.1.0.0 10.2.0.0 statistics rul nt=0, totalSuc nitCount=0 su address	0 d 0 d 0 d 1e ChrisRR ccessCount=0 uccessCount=0 hitCount	status  own own own
	id 183 185 181 Host# <b>show</b> a totalHitCoun Clause 0 1 id 	addr 10.0.0.0 10.1.0.0 10.2.0.0 statistics rul ht=0, totalSuc hitCount=0 su address	le ChrisRR ccessCount=0 laccessCount=0 hitCou	status own own own nt
	id 	addr 10.0.0.0 10.1.0.0 10.2.0.0 statistics rul nt=0, totalSuc nitCount=0 su address 	le ChrisRR ccessCount=0 uccessCount=0 hitCounce 0.0 0 .0 12	status  own own own nt
	id 183 185 181 Host# <b>show</b> a totalHitCoun Clause 0 1 id 	addr 10.0.0.0 10.1.0.0 10.2.0.0 statistics rul ht=0, totalSuc hitCount=0 su address 10.222.0 10.223.0 10.224.0	le ChrisRR ccessCount=0 hitCount 0.0 0 hitCount 0.0 0 .0 12 0.0 0	status own own own nt
	id 183 185 181 Host# <b>show</b> a totalHitCoun Clause 0 1 id  70 80 74 Host# <b>show</b> a	addr 10.0.0.0 10.1.0.0 10.2.0.0 statistics ru: nt=0, totalSuc ntCount=0 su address 10.222.0 10.223.0 10.224.0 statistics glo	0         d           0         d           0         d           0         d           0         d           0         d           0         d           0         d           0         d           0         d           0         d           0         d           0         d           0         d           0         d           0         d           0         d           0         d           0         d           0         d           0         d           0         d           0         d           0         d           0         d	status own own own nt
	id 183 185 181 Host# <b>show</b> a totalHitCoun Clause 0 1 id 	addr 10.0.0.0 10.1.0.0 10.2.0.0 statistics rul ht=0, totalSuc hitCount=0 su address 10.222.0 10.223.0 10.224.0 statistics glo lesRcvd	0       d         0       d         0       d         0       d         0       d         0       d         0       d         0       d         0       d         0       d         0       d         0       d         0       d         0       d         0       d         0       0         0       0         0       12         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0	status own own own nt
	id 183 185 181 Host# <b>show</b> a totalHitCoun Clause 0 1 id 	addr 10.0.0.0 10.1.0.0 10.2.0.0 statistics rul ht=0, totalSuc hitCount=0 su address 10.222.0 10.223.0 10.224.0 statistics glo lesRcvd AddrQueriesRcv	lifeCount 0 d 0 d 0 d 1e ChrisRR ccessCount=0 hitCount 0.0 0 0.0 12 0.0 0 bobal =9 rd =6 =2	status own own own
	id 183 185 181 Host# show a totalHitCoun Clause 0 1 id  70 80 74 Host# show a BMASDnsQuer: BMASDnsRespon BMASDnsRespon	addr 10.0.0.0 10.1.0.0 10.2.0.0 statistics rul ht=0, totalSuc hitCount=0 su address 10.222.0 10.223.0 10.224.0 statistics glo iesRcvd AddrQueriesRcv >nsesSent isesNoError	0 d 0 d 0 d 1e ChrisRR ccessCount=0 hitCount 0.0 0 .0 12 0.0 0 cobal =9 vd =6 =2 =2	status own own own
	id 183 185 181 Host# show a totalHitCoun Clause 0 1 id  70 80 74 Host# show a BMASDnsQuer: BMASDnsRespon BMASDnsRespon BMASDnsRespon	addr 10.0.0.0 10.1.0.0 10.2.0.0 statistics rul ht=0, totalSuc hitCount=0 su address 10.222.0 10.223.0 10.224.0 statistics glo iesRcvd AddrQueriesRcv sesSent isesNoError onsesErrors	0 d 0 d 0 d 0 d 1e ChrisRR ccessCount=0 1ccessCount=0 hitCount 0.0 0 0.0 12 0.0 0 12 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	status own own own
	id 183 185 181 Host# <b>show</b> a totalHitCoun Clause 0 1 id  70 80 74 Host# <b>show</b> a BMASDnsQuer: BMASDnsRespon BMASDnsRespon BMASDnsRespon BMASDnsRespon BMASDnsRespon BMASDnsRespon BMASDnsRespon BMASDnsQuer:	addr 10.0.0.0 10.1.0.0 10.2.0.0 statistics rul ht=0, totalSuc hitCount=0 su address 10.222.0 10.223.0 10.224.0 statistics glo iesRcvd AddrQueriesRcvd isesNoError insesErrors iesUnmatched	0 d 0 d 0 d 0 d 1e ChrisRR ccessCount=0 hitCou 0.0 0 0.0 12 0.0 0 0.0 12 0.0 0 0.0 12 0.0 0 0 0 0 0 12 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	status own own own nt
	id 183 185 181 Host# show a totalHitCoun Clause 0 1 id 70 80 74 Host# show a BMASDnsQuer: BMASDnsRespo BMASDnsRespo BMASDnsRespo BMASDnsRespo BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQuer: BMASDnsQUER: BMASDnsQUER: BMASDnsQUER: BMASDnsQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER: BMASDNSQUER	addr 10.0.0.0 10.1.0.0 10.2.0.0 statistics rul ht=0, totalSuc htCount=0 su address 10.222.0 10.223.0 10.224.0 statistics glo iesRcvd AddrQueriesRcv bisesNoError bisesNeErrors iesUnmatched Scont	0 d 0 d 0 d 0 d 1e ChrisRR ccessCount=0 1ccessCount=0 hitCou 0.0 0 .0 12 0.0 0 .0 12 0.0 0 .0 12 0.0 0 .0 12 0.0 0 .0 12 .0 0 .0 0 .0 12 .0 0 .0 0 .0 12 .0 0 .0	status own own own nt

BMASDnsNSFWDResponsesRcvd =0

BMASDnsReqRatePerSecondCur =0 BMASDnsReqRatePerSecondPeak=0

Host# show statistics domain-group foo-new
totalHitCount=0

cocariireeouiie=0	
DomainName	HitCount
www.foo.com	0
gif.foo.com	0
www.cdn.foo.com	0

#### Related Commands clear

show logs

show system-status

#### show system-status

To display a report on the current operating status of your GSS device, including the online status, current software version used, as well as memory and cpu usage for each of the GSS components, use the **show system-status** EXEC command.

#### show system-status

- Syntax Description This command has no arguments or keywords.
- Defaults No default behavior or values
- Command Modes Privileged EXEC

Examples Host#show system-status Cisco GSS(1.0.0.22.3) GSS Manager - primary [Mon Jul 22 16:56:37 UTC 2002] Normal Operation [runmode = 5]

& addit	9-MTPM	OWADW	סדס	CENTER	
2CPU	2MPM	SIARI	PID	SERVER	
0.0	0.3	Jul10	900	system	
0.0	0.4	Jul10	1170	database	
0.0	1.9	Jul10	1175	tomcat	
0.0	0.1	Jul10	1459	apache	
0.0	2.3	Jul10	1184	crm	
0.0	1.8	Jul10	1216	crdirector	
0.0	0.1	Jul10	1201	dnsserver	
0.0	0.1	Jul10	1240	keepalive	
0.0	0.1	Jul10	1220	boomerang	
0.0	2.4	Jul10	1035	nodemgr	
0.0	0.0	Jul10	419	syslogd	
				ucd-snmpd	[DISABLED]

Related Commands gss status

gss status

gssm database status gssm database report

### show tech-support

To display a report on the current operating status of your GSS device that can be used by Cisco technical support representatives to help troubleshoot problems on your GSS network, use the **show tech-support** Privileged EXEC command.

#### show tech-support

Syntax Description	This command has no arguments or keywords.		
Defaults	No default behavior or values		
Command Modes	Privileged EXEC, global configuration		
Examples	Host(config)#show tech-support Cisco GSS(1.0.0.22.3) GSS Manager - primary [Mon Jul 22 16:58:30 UTC 2002] Normal Operation [runmode = 5]		
	%CPU %MEM START PID SERVER		
	$0.0  0.3  \text{Juli0}  900 \qquad \text{System}$		
	0.0 1.9  Jull 0.1175  tomcat		
	0.0 0.1 Julio 1459 apache		
	0.0 2.3 Julio 1184 crm		
	0.0 1.8 Jul10 1216 crdirector		
	0.0 0.1 Jul10 1201 dnsserver		
	0.0 0.1 Jul10 1240 keepalive		
	0.0 0.1 Jull0 1220 boomerang		
	0.0 2.4 Jul10 1035 nodemgr		
	0.0 0.0 Julio 419 syslogd		
	ucd-snmpd [DISABLED]		
	==> /var/log/messages <== 2002-07-10 16:23:08 relog: Booting		
	==> /cisco/merlot/state/acr.log <==		
	==> /cisco/merlot/state/system.log <==		
	Jun 15 07:11:40 host-css2 rc: Stopping keytable succeeded		
	Jun 15 07:11:42 host-css2 inet: inetd shutdown succeeded		
	Jun 15 07:11:45 host-css2 crond: crond shutdown succeeded		
	Jun 15 07:11:46 host-css2 dd: 1+0 records in		
	Jun 15 07:11:46 host-css2 dd: 1+0 records out		
	Jun 15 07:11:46 host-css2 random: Saving random seed succeeded		
	Jun 15 07:11:48 host-css2 kernel: Kernel logging (proc) stopped.		
	JURI 15 U/.11:48 NOST-CSS2 KERNEL: KERNEL LOG daemon terminating.		
	Jun 15 07.11.50 Host and exiting on signal 15		
	<pre>uni is u/viivsi nosi-cssz exiting on signal is ==&gt; /cisco/merlot/state/apache/log/error log &lt;==</pre>		
	, cibeo, meriot, beace, apaene, rog, ciror_rog <		

Related Commands tcpdump

## show telnet

To display the status of the Telnet option on your GSS device, use the show telnet EXEC command.

show telnet

Syntax Description	This command has no arguments or keywords.
Defaults	No default behavior or values
Usage Guidelines	This command only displays the operating status of Telnet and cannot be used to connect to remote devices.
Command Modes	User EXEC
Examples	In the following example, the <b>show telnet</b> command indicates that Telnet is enabled. Host# <b>show telnet</b> telnet is enabled
Related Commands	telnet show ftp

show ssh

## show terminal-length

To display the terminal length setting for your GSS device, use the **show terminal-length** User EXEC command.

#### show terminal-length

Syntax Description	This command has no arguments or keywords.
Defaults	No default behavior or values
Usage Guidelines	This command displays the maximum number of rows of data that are output at once during a terminal session.
Command Modes	User EXEC
Examples	Host# <b>show terminal-length</b> terminal length 23
Related Commands	terminal-length

### show uptime

To find out how long the GSS device has been running, use the show uptime EXEC command.

show uptime

Syntax Description	This command has n	no arguments or	keywords.
--------------------	--------------------	-----------------	-----------

Defaults	No default behavior or value	ues
Defaults	No default behavior or valu	u

Command Modes User EXEC

**Examples** In the following example, the **show uptime** command displays how long the GSS device has been running.

Host# **show uptime** System has been up for 7 Days 5 Hours 22 Minutes

#### show user

To display user information for a particular user, use the **show user** EXEC command.

show user username name

Syntax Description	username	Displays username keyword.
	name	Username.
Defaults	No default behavio	r or values
Command Modes	User EXEC	
Examples	Host <b># show user</b> paulr-admin adm	isername paulr-admin
Related Commands	show users	

### show users

To display users, use the **show users** EXEC command.

show users

Syntax Description	This command has no arguments or keywords.
Defaults	No default behavior or values
Command Modes	User EXEC
Examples	Host# <b>show users</b> lstar admin admin admin paulr-adminadmin
Related Commands	show user

Cisco Global Site Selector Command Reference

### show version

To display version information about the GSS software, use the show version EXEC command.

show version

Syntax Description	This command has no arguments or keywords.
Defaults	No default behavior or values
Command Modes	User EXEC
Examples	Host# <b>show version</b> Global Site Selector (GSS) Copyright (c) 1999-2002 by Cisco Systems, Inc. Version 1.0(0.22.3) Compiled Tue Jul 9 16:56:08 2002 by atripath - changeset 25175 uptime is 2 Hours 13 Minutes and 59 seconds Model Number: GSS-3380-K9

## shutdown

To shut down the operating system on the GSS device, use the **shutdown** EXEC command. To shut down a particular Ethernet interface on the GSS device use the **shutdown** interface configuration command.

shutdown

This command has no arguments or keywords.
No default behavior or values
Privileged EXEC, interface configuration
The <b>shutdown</b> command performs a shutdown of the GSS operating system or interface. In some cases, the GSS device will also be powered down following a shutdown.

Examples Host# shutdown

Host(config)# interface eth0 Host(config-eth0)# shutdown

### snmp

To enable Simple Network Management Protocol (SNMP) on your GSS device, use the **snmp** command in Global Configuration mode.

snmp enable

Syntax Description	enable Enables the SNMP protocol on the selected GSS device.
Defaults	No default behavior or values.
Command Modes	Global configuration.
Usage Guidelines	
Examples	Host(config)# <b>snmp enable</b>
Related Commands	ftp ntp ssh telnet

## ssh

To enable or disable Secure Shell (SSH) on the GSS device, use the **ssh** command. Use the **no** form of this command to disable SSH.

ssh enable

no ssh enable

Syntax Description	enable Enables SSH on the GSS device.
Defaults	No default behavior or values
Command Modes	Global configuration
Examples	Host(config)# <b>ssh enable</b>
Related Commands	telnet
## tail

To display the last 10 lines of a file, use the **tail** EXEC command.

tail filename

Syntax Description	filename Name of file.			
Defaults	No default behavior or values			
Command Modes	EXEC			
Usage Guidelines	Use this command to display the end of a file within any GSS file directory. This command may be used to monitor features such as transaction logging or system logging (syslog).			
Examples	<pre>Host# tail system.log Showing file system.log Jun 15 07:11:40 host-css2 rc: Stopping keytable succeeded Jun 15 07:11:42 host-css2 inet: inetd shutdown succeeded Jun 15 07:11:45 host-css2 crond: crond shutdown succeeded Jun 15 07:11:46 host-css2 dd: 1+0 records in Jun 15 07:11:46 host-css2 dd: 1+0 records out Jun 15 07:11:46 host-css2 dd: 1+0 records out Jun 15 07:11:46 host-css2 random: Saving random seed succeeded Jun 15 07:11:48 host-css2 kernel: Kernel logging (proc) stopped. Jun 15 07:11:48 host-css2 kernel: Kernel log daemon terminating. Jun 15 07:11:50 host-css2 syslog: klogd shutdown succeeded Jun 15 07:11:51 host-css2 exiting on signal 15 End of file system.log </pre>			
Related Commands	dir Ils Is Isof			
	mkfile type			

## tcpdump

To output all traffic to and from a particular GSS interface, use the tcpdump EXEC command.

tcpdump {eth0 | eth1}

Syntax Description	<b>eth0</b> Interface Ethernet 0, the first network interface on the Global Site Selector
	eth1     Interface eth1, the second network interface on the Global Site Selector
Defaults	No default behavior or values
Command Modes	EXEC
Usage Guidelines	The <b>tcpdump</b> command outputs a record of all tcp traffic to and from a named interface to the screen.
Examples	This is an example of the <b>tcpdump</b> command and its output.
	Host# topdump eth0 Kernel filter, protocol ALL, datagram packet socket topdump: listening on eth0 19:20:45.678641 > gssm.cisco.com.ssh > 10.1.2.3.1178: P 2126255246:2126255346(100) ack 4028790 win 32680 (DF) [tos 0x10] 19:20:45.680534 > gssm.cisco.com.49165 > gss.cisco.com.domain: 9217+ PTR? 187.0.1.2.in-addr.arpa. (43) 19:20:45.681401 > gssm.cisco.com.domain > gssm.cisco.com.49165: 9217 NXDomain* 0/1/0 (111) 19:20:45.681401 > gssm.cisco.com.d9165 > gss.cisco.com.domain: 9218+ PTR? 172.13.89.10.in-addr.arpa. (42) 19:20:45.6819804 < gss.cisco.com.d9165 > gss.cisco.com.49165: 9218* 1/2/2 PTR gssm.cisco.com. (145) 19:20:45.682996 > gssm.cisco.com.d9165 > gss.cisco.com.49165: 9219* 1/2/2 PTR gssm.cisco.com. (145) 19:20:45.682986 > gssm.cisco.com.domain > gssm.cisco.com.49165: 9219* 1/2/2 PTR gss.cisco.com. (142) 19:20:45.683218 > gssm.cisco.com.domain > gssm.cisco.com.49165: 9219* 1/2/2 PTR gss.cisco.com. (142) 19:20:45.683218 > gssm.cisco.com.ssh > 10.1.2.3.1178: P 100:376(276) ack 1 win 32680 (DF) [tos 0x10] 19:20:45.683902 > gssm.cisco.com.ssh > 10.1.2.3.1178: P 376:748(372) ack 1 win 32680 (DF) [tos 0x10] 19:20:45.68517 > gssm.cisco.com.ssh > 10.1.2.3.1178: P 1120:1372(252) ack 1 win 32680 (DF) [tos 0x10] 19:20:45.69506 > gss.cisco.com.ssh > 10.1.2.3.1178: P 1120:1372(252) ack 1 win 32680 (DF) [tos 0x10] 19:20:45.69506 > gss.cisco.com.49165 > gss.cisco.com.domain: 9220+ PTR? 10.128.1.2.in-addr.arpa. (44) 19:20:45.697003 < gss.cisco.com.49165 > gss.cisco.com.domain: 9220+ PTR? 10.128.1.2.in-addr.arpa. (44) 19:20:45.697013 < gss.cisco.com.49165 > gss.cisco.com.domain: 9221+ PTR? 21.218.168.192.in-addr.arpa. (45) 19:20:45.697471 < 10.1.2.3.1178 > gssm.cisco.com.domain: 9221+ PTR? 21.22.168.192.in-addr.arpa. (45) 19:20:45.697471 < 10.1.2.3.1178 > gssm.cisco.com.domain: 9221+ PTR? 21.22.168.192.in-addr.arpa. (45) 19:20:45.697471 < 10.1.2.3.1178 > gssm.cisco.com.domain: 9221+ PTR? 21.22.168.192.in-addr.arpa. (45) 19:20:45.697471 < 10.1.2.3.1178 > gssm.cisco.com.domain 0/1/0 (100)

## telnet

To establish a Telnet connection to a GSS device, use the **telnet** command in user level EXEC or privileged level EXEC mode.

**telnet** [**enable**] [*hostname* | *ip-address*]

Syntax Description	enable	Enables Telnet on the selected GSS device. This option is available in glob configuration mode only.			
	<i>hostname</i> Host name of device with which you want to establish a Telnet connection				
	ip-address	IP address of device with which you want to establish a Telnet connection.			
Defaults	No default behavi	or or values.			
Command Modes	User, privileged EXEC, and global configuration.				
Usage Guidelines	SSH and Telnet can run concurrently.				
Examples	Host(config)# <b>t</b> 4 Host# <b>telnet 10</b>	elnet enable .1.2.3			
Related Commands	ftp				
	ntp				
	snmp				
	ssh				

# terminal-length

To adjust the amount of screen information that can be displayed at one time on your terminal, use the terminal global configuration command.

terminal-length number

no terminal-length

Syntax Description	number The number of screen rows, between 0 and 512			
Defaults	The default terminal length is 23 lines.			
Command Modes	Global configuration			
Usage Guidelines	The <b>terminal-length</b> command allows you to adjust the number of rows of output that will be sent to your terminal screen at once by the GSS. The maximum number of rows is 512.			
	When set to 0, the GSS will send all of its data to the screen at once, without pausing.			
	Use the <b>no</b> - form of this command to restore the default terminal length, 23 lines.			
Examples	Host(config)# terminal-length 512			
	Host(config)# no terminal-length			

## traceroute

To display the route to a host destination, use the traceroute EXEC command.

traceroute {hostname | ip address}

Syntax Description	hostname	Host name of device to which you want to trace the packet route.
	ip-address	IP address of device with which you want to trace the packet route.
Defaults	No default behavi	or or values
Command Modes	EXEC	
Usage Guidelines	Use this command	d to display the route a packet to a host destination that you specify.
Examples	Host> <b>traceroute</b> traceroute to ww 1 bxbl1-bb-gwl ( 2 bxbl1-man-gw2 3 ch2-man-gw2 (1 4 sjck-rbb-gw2 ( 5 sj-wall-1 (161 6 sjce-dirty-gwl 7 sjck-sdf-ciod- 8 * * * 9 * www (198.133	<pre>www.cisco.com ww.cisco.com (198.133.219.25), 30 hops max, 38 byte packets (161.44.33.22) 1.112 ms 0.377 ms 0.353 ms (10.1.2.3) 0.586 ms 0.342 ms 0.314 ms 10.3.4.5) 4.462 ms 4.135 ms 4.558 ms (161.2.3.4) 75.958 ms 75.953 ms 75.891 ms 1.5.6.7) 76.292 ms 76.336 ms 75.971 ms 1 (128.107.240.197) 77.098 ms 76.664 ms 76.286 ms -gw2 (128.107.239.102) 77.437 ms 77.845 ms 76.462 ms 3.219.25) 78.627 ms *</pre>
	WHAT_ID	HOW ===

I

## type

To display a file, use the **type** EXEC command.

type filename

Syntax Description	filename	Name of f	ïle.			
Defaults	No default behavior or values					
Command Modes	EXEC					
Usage Guidelines	Use this command to display the contents of a file within any GSS file directory. This command may be used to monitor features such as transaction logging or system logging (syslog).					
Examples	Host# <b>type /audit.log</b> atcrl.cisco.com>type audit.log					
	# Start logging a #=== WHEN	at Tue Jan 22 23	3:59:30 GMT 2002 WHAT_TABLE	WHAT_ID	HOW ===	
	# Start logging a #=== WHEN	at Wed Jan 23 00	):01:25 GMT 2002 WHAT_TABLE	WHAT_ID	HOW ===	
	# Start logging a #=== WHEN 	ut Thu Jan 31 14	4:42:40 GMT 2002 WHAT_TABLE	WHAT_ID	HOW ===	
Related Commands	dir					
	lls					
	ls Las f					
	mkfile					
	tail					

## username

To establish username authentication, use the username global configuration command.

username name {password word privilege {user | admin } | delete}

Syntax Description	name	Username.		
	password	Establishes password.		
	word	User password.		
	privilege	Sets user privilege level.		
	user	Sets user privilege to normal user.		
	admin	Sets user privilege to administrative user.		
	delete	Deletes the named user or administrative account.		
Defaults	No default behavio	or or values		
Command Modes	Global configurati	on		
Usage Guidelines	The <b>username</b> global configuration command is used to create new user or administrative accounts, change the password and privilege level for existing user accounts, or delete existing accounts.			
Examples	The following example demonstrates how a new account can be set up or removed from a GSS device. Host(config)# username testuser password mypassword privilege user Host(config)# exit Host# show user username testuser testuser user Host(config)# username testuser delete			
Related Commands	show user show users			

I

## write

To save the current running configuration of the GSS as its startup configuration, use the **write** EXEC or global configuration command.

write memory

Syntax Description	memory	Saves recent configuration changes to the GSS that are stored in memory as the startup configuration.
Defaults	No default behavior of	values
Command Modes	Privileged EXEC, glo	pal configuration
Usage Guidelines	Use the <b>write</b> comman startup configuration f	nd to save changes to the running configuration of the GSS device as the new for device.
Examples	Host# write memory	

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