



Using the CLI and GUI to Manage a GSS Network

The Global Site Selector (GSS) has a command-line interface (CLI) and the primary GSSM has both a CLI and a graphical user interface (GUI) that you use to configure the GSS device. This chapter describes when to use the CLI of each GSS device, the CLI of the primary GSSM, or the GUI of the primary GSSM in your GSS network. It also summarizes when to use the following:

- The CLI of each GSS device to perform network setup and configuration tasks.
- The GUI of the primary GSSM to perform network setup and configuration tasks.
- The CLI or the GUI of the primary GSSM to perform global server load-balancing (GSLB) configuration and monitoring tasks.

This chapter contains the following sections:

- [CLI and GUI Network Management Overview](#)
- [Summary of Tasks Using the CLI and the GUI](#)

CLI and GUI Network Management Overview

Global Site Selectors work together in a GSS network to provide distributed and redundant GSLB DNS services. You accomplish the creation of GSLB DNS services by first performing a basic configuration of each individual device, and then accessing the primary Global Site Selector Manager (GSSM) to manage the centralized and shared GSLB configuration.

The first GSS you configure and create in a GSS network is the primary GSSM. After performing a basic setup of the primary GSSM, you can then add additional GSS devices, including a standby GSSM, or continue directly to configuring GSLB. All GSS devices in your GSS network share the same GSLB configuration as managed by the primary GSSM. When you later add a GSS to the GSS network, the GSS device automatically receives the current GSLB configuration.

Certain GSS network management tasks, such as initial device setup, require that you use the CLI of each GSS device to independently configure the GSS. Other tasks, such as activating GSS devices in the GSS network, require that you use the GUI of the primary GSSM to globally configure all GSS devices in a GSS network.

When you perform global server load-balancing configuration and monitoring tasks, in most cases you have the option to use either the CLI or the GUI of the primary GSSM. For tasks that you can perform using either the CLI or the GUI of the primary GSSM, choosing when to use the CLI or the GUI is a matter of personal or organizational choice. Additionally, you have the option to create your GSLB configuration using one method, and then modify the configuration using the alternate method.

Not every GSLB configuration and monitoring task is available from the GUI and the CLI of the primary GSSM. A few examples include the following:

- Configure sticky and proximity groups using the CLI of the primary GSSM
- Create DNS view filters using the GUI of the primary GSSM
- Perform sticky database and proximity database management using the CLI of each GSS device
- Configure DDoS detection and mitigation using the CLI of each GSS device

Proceed to the [“Summary of Tasks Using the CLI and the GUI”](#) section for a detailed overview of the setup, configuration, and global server load-balancing configuration and monitoring tasks that you can perform, and which user interfaces (GUI or CLI) are available for each task.

Summary of Tasks Using the CLI and the GUI

[Table 1-1](#) provides an overview of different configuration tasks that you need to perform. This table identifies the configuration task, the GSS device that you use to perform the task, and which method to use (GUI or CLI) to perform each task. This table also identifies the guide in the GSS documentation set that contains the procedural information.

Table 1-1 Using the CLI or GUI to Perform Configuration Tasks

Task				Related Document	
	GSS and Standby GSSM CLI	Primary GSSM CLI	Primary GSSM GUI	Cisco Global Site Selector Getting Started Guide Chapter	Cisco Global Site Selector Administration Guide
Automatically configure a new GSS using the setup script	Yes	Yes	—	Chapter 2, Configuring the GSS Using the CLI Setup Script	—
Enable remote access	Yes	Yes	—	Chapter 3, Accessing the GSS CLI	—
Manually configure a GSS using the individual CLI setup commands	Yes	Yes	—	Chapter 4, Setting Up Your GSS from the CLI	—
Configure and register a new GSS or standby GSSM with the primary GSSM	Yes	Yes	—	Chapter 4, Setting Up Your GSS from the CLI	—
Activate a new GSS or standby GSSM from the primary GSSM GUI	—	—	Yes	Chapter 5, Activating GSS Devices from the GUI	—

Table 1-1 Using the CLI or GUI to Perform Configuration Tasks (continued)

Task				Related Document	
	GSS and Standby GSSM CLI	Primary GSSM CLI	Primary GSSM GUI	Cisco Global Site Selector Getting Started Guide Chapter	Cisco Global Site Selector Administration Guide
Activate a new GSS or standby GSSM from the primary GSSM CLI	—	—	Yes	Chapter 6, Activating GSS Devices from the CLI	—
Delete GSS devices from the GSS network	—	—	Yes	—	Yes
Change the role of a primary GSSM in the GSS network	Yes (Standby GSSM Only)	Yes	—	—	Yes
Start, stop, reload, or shut down a GSS device	Yes	Yes	—	—	Yes
Install GSS software licenses	Yes	Yes	—	—	Yes
Manage GSS files	Yes	Yes	—	—	Yes
Create and manage CLI user accounts	Yes	Yes	—	—	Yes
Create and manage primary GSSM GUI user accounts (including user roles)	—	—	Yes	—	Yes
Create user views	—	—	Yes	—	Yes
Manage user accounts through a TACACS+ server	Yes	Yes	—	—	Yes
Configure access lists and filter GSS traffic	Yes	Yes	—	—	Yes
Configure SNMP	Yes	Yes	—	—	Yes

Table 1-1 Using the CLI or GUI to Perform Configuration Tasks (continued)

Task				Related Document	
	GSS and Standby GSSM CLI	Primary GSSM CLI	Primary GSSM GUI	Cisco Global Site Selector Getting Started Guide Chapter	Cisco Global Site Selector Administration Guide
Configure device logging	Yes	Yes	—	—	Yes
View centralized system logs in system.log file	—	—	Yes	—	Yes
Back up the primary GSSM	—	Yes	—	—	Yes
Perform GSS software upgrades or downgrades	Yes	Yes	—	—	Yes

Table 1-2 provides an overview of different global server load-balancing (GSLB) configuration and monitoring tasks. This table identifies the GSLB configuration task, the GSS device that you use to perform the task, and which method to use (GUI or CLI) to perform each task. This table also identifies the guide in the GSS documentation set that contains the GSLB procedural information.

Table 1-2 Using the CLI or GUI to Perform GSLB Configuration Tasks

Task				Related Document	
	GSS and Standby GSSM CLI	Primary GSSM CLI	Primary GSSM GUI	Cisco Global Site Selector CLI-Based Global Server Load-Balancing Configuration Guide	Cisco Global Site Selector GUI-Based Global Server Load-Balancing Configuration Guide
Export and import GSLB configurations in text format	—	Yes	—	Yes	—
Configure locations, regions, and owners	—	Yes	Yes	Yes	Yes

Table 1-2 Using the CLI or GUI to Perform GSLB Configuration Tasks (continued)

Task	GSS and Standby GSSM CLI	Primary GSSM CLI	Primary GSSM GUI	Related Document	
				Cisco Global Site Selector CLI-Based Global Server Load-Balancing Configuration Guide	Cisco Global Site Selector GUI-Based Global Server Load-Balancing Configuration Guide
Configure source address lists	—	Yes	Yes	Yes	Yes
Configure domain lists	—	Yes	Yes	Yes	Yes
Configure keepalives	—	Yes	Yes	Yes	Yes
Configure answers and answer groups	—	Yes	Yes	Yes	Yes
Create DNS rules	—	Yes	Yes	Yes	Yes
Suspend and reactivate a DNS rule	—	—	Yes	—	Yes
Create DNS rules using the DNS Rule Wizard	—	—	Yes	—	Yes
Configure and use DNS rule filters	—	—	Yes	—	Yes
Configure DNS sticky	—	Yes	Yes	Yes	Yes
Create sticky groups	—	Yes	—	Yes	Yes
Perform sticky database management	Yes	Yes	—	Yes	Yes
Configure network proximity (including zones)	—	Yes	Yes	Yes	Yes
Create proximity groups	—	Yes	—	Yes	Yes
Add proximity database entries	Yes	Yes	—	Yes	Yes

Table 1-2 Using the CLI or GUI to Perform GSLB Configuration Tasks (continued)

Task	GSS and Standby GSSM CLI	Primary GSSM CLI	Primary GSSM GUI	Related Document	
				Cisco Global Site Selector CLI-Based Global Server Load-Balancing Configuration Guide	Cisco Global Site Selector GUI-Based Global Server Load-Balancing Configuration Guide
Perform proximity database management	Yes	Yes	—	Yes	Yes
Configure DDoS detection and mitigation	Yes	Yes	—	Yes	—
Monitor individual GSS device status	Yes	Yes	Yes	Yes	Yes
Monitor the GSS network	—	—	Yes	Yes	Yes
Export or print GSSM data	—	—	Yes	—	Yes

■ Summary of Tasks Using the CLI and the GUI