



Cisco Service Control Engine (SCE) CLI Command Reference

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Preface

This guide contains Command-Line Interface (CLI) commands to maintain the SCE Platform. This guide assumes a basic familiarity with telecommunications equipment and installation procedures.

Throughout the book, the procedures shown are examples of how to perform typical SCE platform management functions. Because of the large number of functions available, not every possible procedure is documented in the instructional chapters. The *CLI Command Reference* (on page 2-1) provides a complete listing of all possible commands. The other chapters provide examples of how to implement the most common of these commands, general information on the interrelationships between the commands and the conceptual background of how to use them.

Audience

This guide is for the networking or computer technician responsible for configuring and maintaining the SCE Platform on-site. It is also intended for the operator who manages the SCE Platform(s). This manual does not cover high-level technical support procedures available to Root administrators and Cisco technical support personnel.

Organization

Chapter	Title	Description
Chapter 1	<i>Command-Line Interface</i> (on page 1-1)	Describes how to use the SCE Platform Command-Line Interface (CLI), its hierarchical structure, authorization levels and its help features.
Chapter 2	<i>CLI Command Reference</i> (on page 2-1)	Provides an alphabetical list of the available CLI commands that you can use to configure the <i>SCE</i> .

This manual covers the following topics:

Related Publications

This *Cisco Service Control Engine (SCE) CLI Command Reference* should be used in conjunction with the following Service Control Engine documentation:

- Cisco Service Control Engine (SCE) Software Configuration Guide
- Cisco SCE 2000 4xGBE Installation and Configuration Guide
- Cisco SCE 2000 4/8xFE Installation and Configuration Guide
- Cisco SCE 1000 2xGBE Installation and Configuration Guide

Document Conventions

Commana accemptions as	e the rono wing conventions:	
boldface font	Commands and keywords are in boldface .	
<i>italic</i> font	Arguments for which you supply values are in <i>italics</i> .	
[]	Elements in square brackets are optional.	
$\{x \mid y \mid z\}$	Alternative keywords are grouped in braces and separated by vertical bars.	
$[x \mid y \mid z]$	Optional alternative keywords are grouped in brackets and separated by vertical bars.	
string	A nonquoted set of characters. Do not use quotation marks around the string, or the string will include the quotation marks.	
Screen examples use the following conventions:		
screen font	Terminal sessions and information the system displays are in screen font.	
boldface screen font	Information you must enter is in boldface screen font.	
italic screenfont	Arguments for which you supply values are in <i>italic screen</i> font.	
۸	The symbol ^ represents the key labeled Control —for example, the key combination ^ D in a screen display means hold down the Control key while you press the D key.	
<>	Nonprinting characters, such as passwords, are in angle brackets.	
[]	Default responses to system prompts are in square brackets.	
!,#	An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.	

Command descriptions use the following conventions:

Notes, cautionary statements, and safety warnings use these conventions.



Note

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



Warning

Means *reader be careful*. You are capable of doing something that might result in equipment damage or loss of data.

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Cisco documentation and additional literature are available on *Cisco.com* http://www.cisco.com. Cisco also provides several ways to obtain technical assistance and other technical resources. These sections explain how to obtain technical information from Cisco Systems.

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Cisco Technical Support Website

The *Cisco TAC website* (http://www.cisco.com/tac) provides online documents and tools for troubleshooting and resolving technical issues with Cisco products and technologies. The Cisco TAC website is available 24 hours a day, 365 days a year.

Accessing all the tools on the Cisco TAC website requires a Cisco.com user ID and password. If you have a valid service contract but do not have a login ID or password, register at this *URL* (http://tools.cisco.com/RPF/register/register.do).

Submitting a Service Request

Using the online *TAC Service Request Tool* (http://www.cisco.com/techsupport/servicerequest) is the fastest way to open S3 and S4 service requests. (S3 and S4 service requests are those in which your network is minimally impaired or for which you require product information.) After you describe your situation, the TAC Service Request Tool automatically provides recommended solutions. If your issue is not resolved using the recommended resources, your service request will be assigned to a Cisco TAC engineer.

For S1 or S2 service requests or if you do not have Internet access, contact the Cisco TAC by telephone. (S1 or S2 service requests are those in which your production network is down or severely degraded.) Cisco TAC engineers are assigned immediately to S1 and S2 service requests to help keep your business operations running smoothly.

To open a service request by telephone, use one of the following numbers:

Asia-Pacific: +61 2 8446 7411 (Australia: 1 800 805 227)

EMEA: +32 2 704 55 55

USA: 1 800 553-2447

A complete listing of *Cisco TAC contacts* (http://www.cisco.com/techsupport/contacts) is available online.

Definitions of Service Requests Severity

To ensure that all service requests are reported in a standard format, Cisco has established severity definitions.

Severity 1 (S1)—Your network is "down," or there is a critical impact to your business operations. You and Cisco will commit all necessary resources around the clock to resolve the situation.

Severity 2 (S2)—Operation of an existing network is severely degraded, or significant aspects of your business operation are negatively affected by inadequate performance of Cisco products. You and Cisco will commit full-time resources during normal business hours to resolve the situation.

Severity 3 (S3)—Operational performance of your network is impaired, but most business operations remain functional. You and Cisco will commit resources during normal business hours to restore service to satisfactory levels.

Severity 4 (S4)—You require information or assistance with Cisco product capabilities, installation, or configuration. There is little or no effect on your business operations.

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- Cisco Marketplace (http://www.cisco.com/go/marketplace/) provides a variety of Cisco books, reference guides, and logo merchandise.
- The *Cisco Product Catalog* describes the networking products offered by Cisco Systems, as well as ordering and customer support services.
- *Cisco Press* (http://www.ciscopress.com) publishes a wide range of general networking, training and certification titles. Both new and experienced users will benefit from these publications. For current Cisco Press titles and other information, go to *Cisco Press* (http://www.ciscopress.com).
- *Packet* (http://www.cisco.com/packet) magazine is the Cisco Systems technical user magazine for maximizing Internet and networking investments. Each quarter, Packet delivers coverage of the latest industry trends, technology breakthroughs, and Cisco products and solutions, as well as network deployment and troubleshooting tips, configuration examples, customer case studies, certification and training information, and links to scores of in-depth online resources.
- *iQ Magazine* (http://www.cisco.com/go/iqmagazine) is the quarterly publication from Cisco Systems designed to help growing companies learn how they can use technology to increase revenue, streamline their business, and expand services. The publication identifies the challenges facing these companies and the technologies to help solve them, using real-world case studies and business strategies to help readers make sound technology investment decisions.
- *Internet Protocol Journal* (http://www.cisco.com/ipj) is a quarterly journal published by Cisco Systems for engineering professionals involved in designing, developing, and operating public and private internets and intranets.
- World-class networking training is available from Cisco. You can view current offerings at this *URL* (http://www.cisco.com/en/US/learning/index.html).

Obtaining Additional Publications and Information



Command-Line Interface

This chapter describes how to use the SCE Platform Command-Line Interface (CLI), its hierarchical structure, authorization levels and its help features. The Command-Line Interface is one of the *SCE* Platform management interfaces.

This chapter contains the following sections:

- Getting Help 1-1
- Authorization and Command Levels (Hierarchy) 1-2
- CLI Help Features 1-12
- Navigational and Shortcut Features 1-14
- Managing Command Output
 1-16
- CLI Scripts1-18

The CLI is accessed through a Telnet session or directly via the console port on the front panel of the SCE Platform. When you enter a Telnet session, you enter as the simplest level of user, in the User Exec mode.

The SCE Platform supports up to six concurrent CLI sessions; five sessions initiated by Telnet connection, and one session on the console port.

In this chapter, the procedures shown are examples of how to perform typical SCE Platform management functions using the CLI. The *CLI Command Reference* chapter gives you examples of how to implement the most common of these commands, and general information on the interrelationships between the commands and the conceptual background of how to use them.

Getting Help

To obtain a list of commands that are available for each command mode, enter a question mark (?) at the system prompt. You also can obtain a list of any command's associated keywords and arguments with the context-sensitive help feature.

The following table lists commands you can enter to get help that is specific to a command mode, a command, a keyword, or an argument.

Purpose
Obtain a list of commands that begin with a particular character string. (Do not leave a space between the command and question mark.)
Complete a partial command name.
List all commands available for a particular command mode.
List a command's associated keywords. Leave a space between the command and question mark.
List a keyword's associated arguments. Leave a space between the keyword and question mark.

Table 1-1 Getting Help

Authorization and Command Levels (Hierarchy)

When using the CLI there are two important concepts that you must understand in order to navigate:

- Authorization Level: Indicates the level of commands you can execute. A user with a simple authorization level can only view some information in the system, while a higher level administrator can actually make changes to configuration. Almost all of the procedures in this manual require an Admin authorization level. See CLI Command Hierarchy.
- **Command Hierarchy Level:** Provides you with a context for initiating commands. Commands are broken down into categories and you can only execute each command within the context of its category. For example, in order to configure parameters related to the Line Card, you need to be within the LineCard Interface Configuration Mode. See CLI Command Hierarchy.

The following sections describe the available Authorization and Command Hierarchy Levels and how to maneuver within them.

The on-screen prompt indicates both your authorization level and your command hierarchy level, as well as the assigned host name. See *Prompt Indications* (on page 1-12).



Note

Throughout the manual, *SCE* is used as the sample host name.

CLI Command Hierarchy

The set of all CLI commands is grouped in hierarchical order, according to the type of the commands. The first two levels in the hierarchy are the User Exec and the Privileged Exec modes. These are non-configuration modes in which the set of available commands enables the monitoring of the SCE Platform, file system operations, and other operations that cannot alter the configuration of the SCE Platform.

The next levels in the hierarchy are the Global and Interface configuration modes, which hold a set of commands that control the global configuration of the SCE Platform and its interfaces. Any of the parameters set by the commands in these modes should be saved in the startup configuration, such that in the case of a reboot, the SCE Platform restores the saved configuration.

The following table shows the available CLI modes.

Mode	Description	Level	Prompt indication
User Exec	Initial mode with very limited functionality.	User	SCE>
Privileged Exec	General administration; file system manipulations and control of basic parameters that do not change the configuration of the SCE Platform.	Admin	SCE#
Global Configuration	Configuration of general system parameters, such as DNS, host name, and time zone.	Admin	<pre>SCE(config)#</pre>
Interface Configuration	Configuration of specific system interface parameters, such as the Line Card and the Ethernet interfaces.	Admin	SCE(config if)#
Line Configuration	Configuration of Telnet lines, such as an access-list.	Admin	<pre>SCE(config-line)#</pre>

Table 1-2 CLI Modes

When you login to the system, you have the User authorization level and enter User Exec mode. Changing the authorization level to Admin automatically moves you to Privileged Exec mode. In order to move to any of the configuration modes, you must enter commands specific to that mode.

The list of available commands in each mode can be viewed using the question mark '?' at the end of the prompt.

The figure below, illustrates the hierarchical structure of the CLI modes, and the CLI commands used to enter and exit a mode.



Figure 1-1: CLI Command Hierarchy

The following commands are used to enter the different configure interface modes and the Line Configuration Mode:

- El interface LineCard 0
- E2 interface FastEthernet 0/0 (management port, all platforms)
- E2 interface FastEthernet 0/1, 0/2, 0/3, or 0/4 (line ports, SCE 2000 4/8xFE platform)
- E3 interface GigabitEthernet 0/1, 0/2, 0/3, or 0/4 (line ports, SCE 2000 4xGBE platform)
- E3 interface GigabitEthernet 0/1, 0/, (line ports, SCE 1000 2xGBE platform)
- E4 line vty 0

To move from one interface configuration mode to another you must exit the current interface configuration mode (as illustrated in the above figure).



Note

Although the system supports up to five concurrent Telnet connections, you cannot configure them separately. This means that any number you enter in the **line** vty command (0, 1, 2, 3 or 4) will act as a **0** and configure all five connections together.

EXAMPLE:

This example illustrates moving into and out from Interface configuration mode as follows:

- Configure the SCE Platform time zone (global configuration)
- Enter FastEthernet Interface configuration mode for Mng port
- Configure the speed of the management interface
- Define the link mode.
- Exit Interface configuration mode

```
SCE#>configure
SCE(config)#>clock timezone PST -10
SCE(config)#>interface FastEthernet 0/0
SCE(config if)#>speed 100
SCE(config)#>exit
SCE(config)#>interface LineCard 0
SCE(config if)#>link-mode forwarding
SCE(config if)#>exit
```

Entering and Exiting Global Configuration Mode

To enter the Global Configuration Mode:

Step 1 At the SCE# prompt, type configure, and press Enter.

The SCE(config)# prompt appears.

To exit the Global Configuration Mode:

Step 1At the SCE(config)# prompt, type exit and press Enter.The SCE# prompt appears.

Interface Configuration Modes

The components that are configured by the Interface Configuration Modes are:

• Card

• LineCard: Interface LineCard 0

The LineCard interface configures the main functionality of viewing and handling traffic on the line.

- Ports
 - See Configuring the Physical Ports (on page 1-6)
- Telnet
 - Line Configuration Mode: Line vty 0

The Line Configuration Mode enables you to configure Telnet parameters.

Configuring the Physical Ports

The SCE Platform system contains the following physical port interfaces:

• Fast Ethernet Management:

Interface FastEthernet 0/0

The FastEthernet Management Interface configures the settings for the interface to other network elements within the system. This interface should be connected to the internal Ethernet within the operator's site.

• Fast Ethernet (SCE 2000 4/8xFE):

```
Interface FastEthernet 0/1, 0/2, 0/3, or 0/4
```

The FastEthernet Interface mode configures the settings for the FastEthernet interface to the Internet traffic on the wire. Each of the four ports can be set individually.

• Gigabit Ethernet (SCE 1000 platform):

```
Interface GigabitEthernet 0/1, or 0/2
```

The GigabitEthernet Interface mode configures the settings for the GigabitEthernet interface to the Internet traffic on the wire. Each of the two ports can be set individually.

• Gigabit Ethernet (SCE 2000 4xGBE platform):

```
Interface GigabitEthernet 0/1, 0/2, 0/3, or 0/4
```

The GigabitEthernet Interface mode configures the settings for the GigabitEthernet interface to the Internet traffic on the wire. Each of the four ports can be set individually.



Note

You need to specify the slot number and the interface number when referencing any interface. The slot number is always 0, and the interfaces are numbered as follows: Ethernet Line Interfaces: SCE 1000 platform: **1,2** SCE 2000 platform: **1,2,3,4** FastEthernet Management Interface: **0**

Configuring the Management Port

The following commands are used to configure the management port for all platforms:

- duplex ("speed" on page 2-245)
- *ip address* (on page 2-65)
- *speed* (on page 2-245)

Configuring the Fast Ethernet Line Ports

The commands that are used to configure the Fast Ethernet line ports are:

- *bandwidth* ("speed" on page 2-245)
- *duplex* (on page 2-50)
- queue ("speed" on page 2-245)
- *speed* (on page 2-245)

Configuring the Gigabit Ethernet Line Ports

The commands that are used to configure the Gigabit Ethernet line ports are:

- auto-negotiate (GigabitEthernet only) (on page 2-15)
- bandwidth ("queue" on page 2-122)
- *queue* (on page 2-122)

Entering FastEthernet (Management) Interface Configuration Mode

Before you can configure the FastEthernet parameters for the management interface, you must be in the FastEthernet Management Interface Configuration Mode.

To enter FastEthernet Management Interface Configuration Mode:

Step 1 To enter Global Configuration Mode, type **configure** and press **Enter**.

The *SCE*(config) # prompt appears.

Step 2 Type interface FastEthernet 0/0 and press Enter.

The *SCE* (config if) # prompt appears.

The system prompt changes to reflect the higher level mode.

To return to the Global Configuration mode:

Step 1 Type exit.

Authorization and Command Levels (Hierarchy)

Entering LineCard Interface Configuration Mode

The following procedure is for entering Line Card Interface Configuration mode. The procedures for entering the other interfaces are the same except for the interface command as described above and in *CLI Command Reference* (on page 2-1).

To enter LineCard Interface Configuration mode:

- Step 1 To enter Global Configuration Mode, at the SCE# prompt, type configure, and press Enter. The SCE(config)# prompt appears.
- **Step 2** Type interface LineCard 0, and press Enter. The SCE (config if) # prompt appears.
- Step 3 To return to Global Configuration Mode, type exit and press Enter. The SCE(config) # prompt appears.
- Step 4 To exit Global Configuration Mode, type exit and press Enter. The SCE# prompt appears.

```
Entering Ethernet Line Interface Configuration Mode
Entering the Fast Ethernet Line Interface Configuration Mode
```

To enter the FastEthernet Interface Configuration Mode:

Step 1 To enter Global Configuration Mode, type configure and press Enter.

The *SCE*(config) # prompt appears.

Step 2 For the SCE 2000, type interface FastEthernet [0/1|0/2|0/3|0/4] and press Enter.

The SCE (config if) # prompt appears.

EXAMPLE:

The following example shows how to enter Configuration Mode for the FastEthernet Interface number 3.

```
SCE(config)#interface FastEthernet 0/3
SCE(config if)#
```

Entering the Gigabit Ethernet Line Interface Configuration Mode

To enter the GigabitEthernet Interface Configuration Mode:

- **Step 1** To enter Global Configuration Mode, type **configure** and press **Enter**. The *SCE*(config)# prompt appears.
- **Step 2** For the SCE 1000, type interface GigabitEthernet [0/1 | 0/2] and press Enter.
- **Step 3** For the SCE 2000, type interface GigabitEthernet [0/1|0/2|0/3|0/4] and press Enter.

The SCE (config if) # prompt appears.

EXAMPLE:

The following example shows how to enter Configuration Mode for the GigabitEthernet Interface number 2.

SCE(config)#interface GigabitEthernet 0/2
SCE(config if)#

Navigating between the Interface Configuration Modes

To navigate from one Interface Configuration Mode to another:

```
Step 1 Type exit.
```

You are returned to the Global Configuration Mode.

Step 2 Type the appropriate command to enter a different Interface Configuration Mode.

Exiting Modes

This section describes how to revert to a previous mode. When you use the exit command you revert to the general level above the current level, as shown in the figure in *CLI Command Hierarchy* (on page 1-2).

To exit from the Privileged Exec mode and revert to the User Exec mode:

Step 1 At the *SCE*# prompt, type **disable**, and press **Enter**.

The *SCE* > prompt for the User Exec mode appears.

Authorization and Command Levels (Hierarchy)

Exiting from any configuration mode and revert to the previous mode is done in the same manner, as in the following procedure.

To exit from the Global Configuration Mode:

Step 1 At the SCE (config) # prompt, type exit, and press Enter.

The appropriate prompt for the previous level appears.

EXAMPLE:

The following example shows the system response when you exit the Interface Configuration mode.

```
SCE(config if)#exit
```

```
SCE(config)#
```

CLI Authorization Levels

The SCE Platform system has three authorization levels, which represent the user's access permissions. When you initially connect to the SCE Platform, you automatically have the most basic authorization level, that is User, which allows minimum functionality.

In order to perform administrative functions on the SCE Platform, you must have Admin or Root authorization, which means changing the level by logging in with an Admin or Root password, as described in the procedure "To log in with Admin level authorization," below. This manual covers the functions that can be performed by the Admin level user.

The commands available in each authorization level are all the commands of the lower authorization layers plus commands that are authorized only to this level.



Note

This manual covers the functions that can be performed by the Admin level user, unless otherwise noted.

The following CLI commands are related to authorization levels:

- enable
- disable

Each authorization level has a value (number) corresponding to it. When using the CLI commands, use the values, not the name of the level, as shown in the following table.

Level	Description	Value	Prompt
User	Password required. This level enables basic operational functionality.	0	>
Admin	Password required. For use by general administrators, the Admin authorization level enables configuration and management of the SCE Platform.	10	#
Root	Password required. For use by technical field engineers, the Root authorization level enables configuration of all advanced settings, such as debug and disaster recovery. The Root level is used by technical engineers only and is not documented in this manual.	15	#>

Table 1-3Authorization Levels

A telnet session begins with a request for password, and will not continue until the proper user password is supplied. This enhances the security of the system by not revealing its identity to unauthorized people.

To log in with Admin level authorization:

Step 1 Initiate a telnet connection.

Step 2 A Password: prompt appears. Type in the user level password and press **Enter**. The *SCE* > prompt appears.

You now have user level authorization.

Step 3 From the SCE> prompt, type enable 10 and press Enter.

The system prompts for a password by showing the prompt Password:

Step 4 Type in the password for the Admin level and press **Enter**.

Note that the password is an access-level authorization setting, not an individual user password.

The system prompt changes to SCE[#] to show you are now in Admin level.

EXAMPLE:

The following example illustrates how to change the authorization level from User to Admin, and then revert back to User. No password is required for moving to a lower authorization level.

SCE>enable 10 Password: cisco SCE#disable SCE>

Prompt Indications

The on-screen prompt indicates your authorization level, your command hierarchy level, and the assigned host name. The structure of the prompt is:

<hostname(mode-indication)level-indication>

Authorization levels are indicated as follows:

This prompt Indicates this		
>	indicates User and Viewer levels	
#	indicates Admin level	
#>	indicates Root level	
Command hierarchy levels are indicated as follows:		
This command hierarchy	Is indicated as	

•	
User Exec	SCE>
Privileged Exec	SCE#
Global Configuration	<pre>SCE(config)#</pre>
Interface Configuration	SCE(config if)#
Line Configuration	SCE(config-line)#

EXAMPLE:

The prompt My SCE (config if) # indicates:

- The name of the *SCE* platform is My*SCE*
- The current CLI mode is Interface configuration mode
- The user has Admin authorization level

CLI Help Features

CLI provides context sensitive help. Two types of context sensitive help are supported:

- Partial help
- Argument help

Partial Help

To obtain a list of commands that begin with a particular character string, enter the abbreviated command entry immediately followed by a question mark (?). This form of help is called partial help, because it lists only the keywords or arguments that begin with the abbreviation you entered.

EXAMPLE:

The following example illustrates how typing **c**? displays all available arguments that start with the letter c.

SCE(config)#snmp-server c? Community contact

SCE(config)#snmp-server c

Argument Help

To obtain a list of command's associated keywords or parameters, type a question mark (?) in place of a keyword or parameter on the command line.

Note that if **<Enter>** is acceptable input, the symbol **<**cr> represents the **Enter** key.

EXAMPLE:

The following example illustrates how to get a list of all arguments or keywords expected after the command **snmp-server**.

SCE(config)#snmp-server ?

Community Define community string

Contact	Set system contact
Enable	Enable the SNMP agent
Host	Set traps destination
Location	Set system location

SCE(config)#

When asking for help on particular parameter, the system informs you of the type of data that is an accepted legal value. The types of parameters supported are:

- STRING When a String is expected, you can enter any set of characters or digits. If the string has a space as one of its characters, use double-quote (") marks to enclose the string.
- DECIMAL Any decimal number. Positive number is assumed, for negative numbers use the "–" symbol.
- HEX A hexadecimal number; must start with either 0x or 0X.

Navigational and Shortcut Features

EXAMPLE:

The following example illustrates the use of ? to get help on commands syntax. In this example, you can enter either the word **running-config**, or any name of a file, after the word **copy**.

SCE#copy ?

running-config Copy running configuration file

STRING

Source file name

SCE#

The [no] Prefix

Many CLI commands offer the option of adding the word **no** before the command to disable the feature controlled by the command or revert it to its default configuration. This notation is shown in the *CLI Command Reference* (on page 2-1) as **[no]** to denote it is optional.

For example, **no service telnetd** disables the telnet server. Enabling the telnet server is done by typing **service telnetd**.

Navigational and Shortcut Features

Command History

CLI maintains a history buffer of the most recent commands you used in the current CLI session for quick retrieval. Using the keyboard, you can navigate through your last commands, one by one, or all commands that start with a given prefix. By default, the system saves the last 30 commands you typed. You can change the number of commands remembered using the **history size** command.

To use the history functions, use the keys shown in the following table.

 Table 1-4
 Keyboard Shortcuts for History Functions

Arrow	Shortcut	Description
Up arrow	Ctrl-P	Moves cursor to the previous command with the same prefix.
Down arrow	Ctrl-N	Moves cursor to the next command with the same prefix as original.
	Ctrl-L Ctrl-R	Re-display the current command line.

Keyboard Shortcuts

The SCE Platform has a number of keyboard shortcuts that make it easier to navigate and use the system. The following table shows the keyboard shortcuts available.

You can get a display the keyboard shortcuts at any time by typing **help bindings**.

Description	Shortcut Key
Navigational shortcuts	
Move cursor one character to the right.	CTRL-F /->
Move cursor one character to the left.	CTRL-B /<-
Move cursor one word to the right (forward).	ESC-F
Move cursor one word to the left (backward.	ESC-B
Move cursor to the start of the line.	CTRL-A
Move cursor to the end of the line.	CTRL-E
Editing shortcuts	
Delete the character where the cursor is located.	CTRL-D
Delete from the cursor position to the end of the word.	ESC-d
Delete the character before the current location of the cursor.	Backspace
Delete the character before the current location of the cursor.	CTRL-H
Deletes from the cursor position to the end of the line	CTRL-K
Deletes all characters from the cursor to the beginning of the line	CTRL-U
Deletes all characters from the cursor to the beginning of the line. (Same functionality as CTRL-U.)	CTRL-X
Delete the word to the left of the cursor.	CTRL-W
Recall the last item deleted.	CTRL-Y
Completes the word when there is only one possible completion.	<tab></tab>
Completes the word when there is only one possible completion. (Same functionality as <tab>.)</tab>	CTRL-I

Table 1-5 Keyboard Shortcuts

Tab Completion

The CLI interface features tab completion. When you type in the first letters of a command and type **<Tab>**, the system automatically fills in the rest of the command or keyword. This feature works only when there is one possible command that could be possible using the starting letters.

EXAMPLE:

The letters **snm** followed by **<Tab>** will be completed to the command **snmp-server**.

SCE(config)#snm<Tab>

SCE(config)#snmp-server

If you type **<Enter>** instead of **<Tab>**, and there is no ambiguity, the system actually carries out the command which would be filled in by the rest of the word.

EXAMPLE:

The following example displays how the system completes a partial (unique) command for the **enable** command. Because **enable** does not require any parameters, the system simply carries out the **enable** command when the user presses **Enter**.

SCE>en<Enter>

Password:

SCE#

FTP User Name and Password

CLI enables saving ftp user name and password to be used in FTP operations—download and upload, per session.

These settings are effective during the current CLI session.

EXAMPLE:

The following example illustrates how to set FTP password and user name and the use in these settings for getting a file named *config.tmp* from a remote station using FTP protocol.

SCE#ip ftp password vk

SCE#ip ftp username vk

SCE#copy ftp://@10.1.1.253/h:/config.tmp myconf.txt

connecting 10.1.1.253 (user name vk password vk) to retrieve config.tmp

SCE#

Managing Command Output

Some commands, such as many **show** commands, may have many lines of output. There are several ways of managing the command output:

- Scrolling options: When the command output is too large to be displayed all at once, you can control whether the display scrolls line by line or refreshes the entire screen.
- Filtering options: You can filter the output so that output lines are displayed only if they include or exclude a specified expression.
- Redirecting to a file: You can send the output to a specified file

Scrolling the Screen Display

The output of some **show** and **dir** commands is quite lengthy and cannot all be displayed on the screen at one time. Commands with many lines of output are displayed in chunks of 24 lines. You can choose to scroll the display line by line or refresh the entire screen. At the prompt after any line, you can type one of the following keys for the desired action:

- **<Enter>** show one more line
- **<Space>** show 24 more lines (a new chunk)
- <g> Stop prompting for more
- <?> Display a help string showing possible options
- Any other key quit showing the file

Filtering Command Output

You can filter the output of certain commands, such as **show**, **more**, and **dir**, so that output lines are displayed only if they include or exclude a specified expression. The filtering options are as follows:

- include: Shows all lines that include the specified text.
- exclude: Does not show any lines that include the specified text.
- **begin**: Finds the first line that includes the specified text, and shows all lines beginning with that line. All previous lines are excluded.

The syntax of filtered commands is as follows:

```
<command> | include <expression>
<command> | exclude <expression>
<command> | begin <expression>
```

The <expression> in these commands is case sensitive.

EXAMPLE

Following is an example of how to filter the **show version** command to display only the last part of the output, beginning with the version information.

SCE # show version begin revision

Redirecting Command Output to a File

You can redirect the output of commands, such as **show**, **more**, and **dir**, to a file. When writing the output of these commands to a file, you can specify either of the following options:

- redirect: The new output of the command will overwrite the existing contents of the file.
- append: The new output of the command will be appended to the existing contents of the file.

The syntax of redirection commands is as follows:

```
• <command> | redirect <file-name>
```

```
• <command> | append <file-name>
```

EXAMPLE

Following is an example of how to do the following:

- Filter the **more** command to display from a *csv* subscriber file only the gold package subscribers.
- Redirect that output to a file named *current_gold_subscribers*. The output should not overwrite existing entries in the file, but should be appended to the end of the file.

SCE# more subscribers_10.10.2004 include gold append current_gold_subscribers

CLI Scripts

The CLI scripts feature allows you to record several CLI commands together as a script and play it back. This is useful for saving repeatable sequence of commands, such as software upgrade. For example, if you are configuring a group of SCE Platforms and you want to run the same configuration commands on each platform, you could create a script on one platform and run it on all the other SCE Platforms.

The available script commands are:

- script capture
- script stop
- script print
- script run

To create a script:

- **Step 1** At the *SCE*# prompt, type **script capture** *sample1.scr* where *sample1.scr* is the name of the script.
- **Step 2** Perform the actions you want to be included in the script.
- Step 3 Type script stop.

The system saves the script.

EXAMPLE:

The following is an example of recording a script for upgrading software.
 SCE#script capture upgrade.scr
 SCE#configure
 SCE(config)#boot system new.pkg
 Verifying package file...
 Package file verified OK.
 SCE(config)#exit
 SCE#copy running-config startup-config
 Writing general configuration file to temporary location...
 Extracting files from `/tffs0/images/new.pkg'...
 Verifying package file...
```
Package file verified OK.
Device `/tffs0/' has 81154048 bytes free, 21447973 bytes are
needed for extraction, all is well.
Extracting files to temp locations...
Renaming temp files...
Extracted OK.
Backing-up general configuration file...
Copy temporary file to final location...
SCE#script stop
SCE#
```

To run the script recorded above, type: **SCE**#script run upgrade.scr

Cisco Service Control Engine (SCE) CLI Command Reference



CLI Command Reference

This chapter contains all the CLI commands available on the SCE platform.

Each command description is broken down into the following sub-sections: Command syntax The general format of the command.

Description	Description of what the command does.
Default	If relevant, the default setting for the command.
Authorization	The level of user authorization required for using the command.
Mode	The mode (command line) from which the command can be invoked.
Parameters	Description of parameters and switches for the command.
Usage guidelines	Information about when to invoke the command and additional details.
Example	An illustration of how the command looks when invoked. Because the interface is straightforward, some of the examples are obvious, but they are included for clarity.

Syntax and Conventions

The CLI commands are written in the following format:

command *required-parameter* [optional-parameter]

[no] is an optional parameter that may appear before the command name.

- When typing commands, you may enclose parameters in double-quote marks, and you *must* do so when there is a space within a parameter name.
- Examples are shown in courier style. **Bold courier** is used to show the commands as you type them and regular courier is used for system prompts and responses.



Note The command prompt, SCE*xxxx*, in the examples and in other sections of the CLI commands represents the type of platform of the SCE, where *xxxx* denotes either 1000 for the SCE1000 platform or 2000 for the SCE2000 platform.

CLI Commands

?

Lists all commands available for the current command mode. You can also use the ? command to get specific information on a keyword or parameter.

To obtain a list of commands that begin with a particular character string, enter the abbreviated command entry immediately followed by a question mark (?). This form of help is called partial help, because it lists only the keywords or arguments that begin with the abbreviation you entered.

Syntax Description	This command has no arguments or keywords
Defaults	This command has no default settings
Command Modes	All
Usage Guidelines	To list a command's associated keywords or arguments, enter a question mark (?) in place of a keyword or parameter on the command line. This form of help is called argument help because it lists the keywords or arguments that apply based on the command, keywords, and arguments you have already entered.
	Authorization: User
Examples	The following example shows ways of requesting help using the ? wildcard.
	default-gateway Sets the default gateway domain-lookup Enables the IP DNS-based host name-to-address translation domain-name Define a default domain name host Add a host to the host table name-server Specify the address of one or more name servers to use for name and address resolution route Add IP routing entry SCE(config)#ip d? default-gateway default-gateway Main-lookup SCE(config)#ip de? default-gateway

Related Commands

Cisco Service Control Engine (SCE) CLI Command Reference

access-class

Restricts Telnet server access to those addresses listed in the specified access list. Use the [no] form of this command to set the Telnet server to accept access from any address.

access-class number in

no access-class number in

Syntax Description	number An access-list number (1–99).			
Defaults	No access list			
Command Modes	Line Configuration Mode			
Usage Guidelines				
	Authorization: admin			
Examples	The following are examples of the access-class command:			
	EXAMPLE 1			
	The following example configures an access class for all Telnet lines.			
	SCE(config-line)#access-class 1 in SCE(config-line)#			
	EXAMPLE 2			
	The following example removes an access class for Telnet lines.			
	SCE(config-line)#no access-class in SCE(config-line)#			

access-list

Adds an entry to the bottom of the specified access list. access-list number permission address Syntax Description number An access-list number (1–99). permission Indicates whether the IP address should be allowed or denied access permission as described in the Valid Permission Values table in the Usage Guidelines.. address Addresses to be matched by this entry as described in the Valid Address Values table in the Usage Guidelines. Defaults **Global Configuration** Command Modes **Usage Guidelines** Valid Permission Values Table 2-1 deny Deny access to list member Permit access to list member. permit Table 2-2 Valid Address Values All IP addresses are matched by this entry. This is equivalent to specifying the address 0.0.0.0 any 255.255.255.255 ip-address The IP address or range of IP addresses, matched by this entry. This can be one address in the x.x.x.x format or a range of addresses in the format x.x.x.x y.y.y.y where x.x.x.x specifies the prefix bits common to all IP addresses in the range, and y.y.y.y is a mask specifying the bits that are ignored. In this notation, '1' means bits to ignore. For example, the address 0.0.0.0 255.255.255.255 means any IP address. The address 10.0.0.0 0.1.255.255 means IP addresses from 10.0.0.0 to 10.1.255.255. The address 1.2.3.4 0.0.0.255 means IP addresses from 1.2.3.0 to 1.2.3.255 (A more natural way of expressing the same range is 1.2.3.0 0.0.0.255).

Authorization: admin

Examples

The following example adds entries to the bottom of access-list 1. The first entry permits access to 10.1.1.0 through 10.1.1.255. The second entry denies access to any address. Together this list allows access only to addresses 10.1.1.*.

SCE(config)#access-list 1 permit 10.1.1.0 0.0.0.255 SCE(config)#access-list 1 deny any SCE(config)#

The following example defines access list 2, a list that denies access to all IP addresses in the range: 10.1.2.0 to 10.1.2.255, permits access to all other addresses in the range 10.1.0.0 to 10.1.15.255, and denies access to all other IP addresses. Note that since the first range is contained within the second range, the order of entries is important. If they had been entered in the opposite order, the **deny** entry would not have any effect.

SCE (config)#access-list 2 deny 10.1.2.0 0.0.0.255 *SCE* (config)#access-list 2 permit 10.1.0.0 0.0.15.255 *SCE*(config)#

attack-detector default

Defines default thresholds and attack handling action. If a specific attack detector is defined for a particular situation (protocol/attack direction/side), it will override these defaults.

Use the **no** version of this command to delete the user-defined defaults. The system defaults will then be used.

attack-detector default protocol *protocol* **attack-direction** *attack-direction* **side** *side* **action** *action* **open-flows** *open-flows* **ddos-suspected-flows** *ddos-suspected-flows*

no attack-detector default protocol *protocol* **attack-direction** *attack-direction* **side** *side* **action** *action* **open-flows** *open-flows* **ddos-suspected-flows** *ddos-suspected-flows*

Syntax Description	protocol	TCP, UDP, IMCP, other
	attack-direct	ionattack-source, attack-destination, both
	side	subscriber, network, both
	action	report, block
	open-flows	Threshold for concurrently open flows
	ddos-suspect	ted-flows Threshold for DDoS-suspected flows.

Defaults

Command Modes	LineCard Interface Configuration		
Usage Guidelines	Use the <i>notify-subscriber</i> keyword to enable subscriber notification. Use the <i>dont-notify-subscriber</i> keyword to disable subscriber notification. Authorization: admin		
Examples	The following examples illustrate the use of the attack-detector default command: EXAMPLE 1 :		
	The following example configures a default attack detector for TCP flows from the attack source.		

Cisco Service Control Engine (SCE) CLI Command Reference

SCE(config if)#attack-detector default protocol TCP attack-direction attack-source side both action report open-flows 500 ddos-suspected-flows 75

EXAMPLE 2:

The following example enables subscriber notification for the specified situation (protocol/attack direction/side).

SCE(config if)#attack-detector default protocol TCP attack-direction attack-source side both notify-subscriber

Related Commandsattack-detector <number> (on page 2-9)

attack-detector	
	Enables the specified attack detector and assigns an access control list (ACL) to it.
	attack-detector <number> access-list access-list</number>
Syntax Description	<i>number</i> The attack detector number.
, ,	access-list The number of the ACL containing the IP addresses selected by this detector
Defaults	
Command Modes	LineCard Interface Configuration
Usage Guidelines	
	Authorization: admin
Examples	The following example enables attack detector number "2", and assigns ACL "8".
	SCE(config if)# attack-detector 2 access-list 8

attack-detector <number>

Configures a specific attack detector for a particular situation (protocol/attack direction/side) with the assigned number.

Use the **no** form of this command to delete the specified attack detector.

attack-detector <number> protocol protocol attack-direction attack-direction side side action open-flows open-flows ddos-suspected-flows

no attack-detector *<number>* **protocol** *protocol* **attack-direction** *attack-direction* **side** *side action* **open-flows** *ddos-suspected-flows ddos-suspected-flows*

Syntax Description	number Assigned number for attack-detector command.		
	protocol TCP, UDP, IMCP, other		
	attack-direction attack-source, attack-destination, both		
	side subscriber, network, both		
	action report, block		
	open-flows Threshold for concurrently open flows		
	ddos-suspected-flows Threshold for DDoS-suspected flows		
Defaults			
Command Modes	LineCard Interface Configuration		
Usage Guidelines	Use the notify-subscriber keyword to enable subscriber notification.		
	Use the <i>dont-notify-subscriber</i> keyword to disable subscriber notification.		
	Authorization: admin		
Examples	The following examples illustrate the use of the attack-detector <number></number> command: EXAMPLE 1 :		
	The following example configures the attack detector number "2".		

CLI Commands

SCE(config if)#attack-detector 2 protocol TCP attack-direction attack-source side both action report open-flows 500 ddos-suspected-flows 75

EXAMPLE 2:

The following example deletes attack detector number "2".

SCE(config if)#no attack-detector 2

Example 3:

The following example disables subscriber notification for attack detector number "2". *SCE*(config if)#attack-detector 2 dont-notify-subscriber

Related Commands attack-detector default (on page 2-6)

2-11

Related Commands

attack-filter (LineCard Interface Configuration)

Enables/disables attack detection.

attack-filter

no attack-filter

Syntax Description	This command has no arguments or keywords.		
Defaults	attack-filter is disabled		
Command Modes	LineCard Interface Configuration		
Usage Guidelines			
	Authorization: admin		
Examples	The following example disables attack detection. <i>SCE</i> (config if)# no attack-filter		

attack-filter (Privileged Exec)

The **attack-filter** command prevents attack filtering for a specified IP address/protocol. If filtering is already in process, it will be stopped.

When attack filtering has been stopped, it remains stopped until explicitly restored by another CLI command (either specific or general). Use the **no** form of this command to restore attack filtering.

When using the **force-filter** keyword, it forces attack filtering for a specified IP address/protocol. When attack filtering has been forced, it continues until explicitly stopped by another CLI command (either specific or general). Use the **no** form of this command to stop attack filtering.

attack-filter slot-number ip ip-address protocol protocol attack-direction attack-direction side side [dont-filter] attack-filter slot-number ip ip-address action action protocol protocol attack-direction attackdirection side side [force-filter] no attack-filter slot-number [dont-filter] [all]

no attack-filter *slot-number* [done linter] [all]

Syntax Description	slot-number	The number of the identified slot. Enter a value of 0.
	ip-address	IP address from which traffic will not be filtered.
	action	report, block
	protocol	TCP, UDP, IMCP, other
	attack-directi	ionattack-source, attack-destination, both
	side	subscriber, network, both
Defaults		
Command Modes	Privileged EX	XEC
Usage Guidelines	After configu them accordi is desired, eit detectors pro	aring the attack detectors, the SCE Platform automatically detects attacks and handles ng to the configuration. However, there are scenarios in which a manual intervention ther for debug purposes, or because it is not trivial to reconfigure the SCE attack- perly.
	The user can	use the CLI attack filtering commands to do the following:
	• Prevent/s	top filtering of an attack related to a specified IP address
	• Force filt	ering of an attack related to a specified IP address
Cisco	Service Control Eng	gine (SCE) CLI Command Reference

Attack filtering can be prevented for a specified IP address/protocol by executing a dont-
filter CLI command. If filtering is already in process, it will be stopped. When attack filtering
has been stopped, it remains stopped until explicitly restored by another CLI command (either
force-filter or no dont-filter).

Attack filtering can be forced for a specified IP address/protocol. If filtering is already in process, it will be stopped. Forced attack filtering will continue until undone by an explicit CLI command (either no force-filter or dont-filter).

Use the all keyword to restore or stop all filtering.

Authorization: admin

Examples

The following are examples of the **attack-filter** command:

EXAMPLE 1:

The following example prevents attack filtering for the specified conditions.

SCE#attack-filter 0 ip 10.10.10.10 protocol TCP attack-direction attack-source side both dont-filter *SCE*#

EXAMPLE 2:

The following example restores all attack filtering.

SCE#no attack-filter 0 dont-filter all

EXAMPLE 3:

The following example forces attack filtering.

SCE#attack-filter 0 action block ip 10.10.10.10 protocol TCP attack-direction attack-source side both

EXAMPLE 4:

The following example stops all forced attack filtering.

SCE#no attack-filter 0 force-filter all

attack-filter subscriber-notification ports

	Specifies up to three ports as subscriber notification ports. TCP Traffic from the subscriber side to these ports will never be blocked by the attack filter, leaving them always available for subscriber notification.
	Use the [no] form of this command to remove all ports from the subscriber notification port list.
	attack-filter subscriber-notification ports ports
	no attack-filter subscriber-notification ports ports
Suntax Description	noute Dout numbers. Up to 2 norts can be specified as subscriber patification parts
Syntax Description	<i>ports</i> Port numbers. Up to 5 ports can be specified as subscriber nonlication ports.
Defaults	
Command Modes	LineCard Interface Configuration
Usage Guidelines	
	Authorization: admin
Examples	The following example defines adds ports to the subscriber notification port list.
	SCE(config if)# attack-filter subscriber-notification ports 100,101,102

auto-negotiate (GigabitEthernet only)

Configures the GigabitEthernet Interface auto-negotiation mode. Use this command to either enable or disable auto-negotiation. When set to no auto-negotiate, auto-negotiation is always disabled, regardless of the connection mode.

auto-negotiate no auto-negotiate default auto-negotiate

Syntax Description	This command has no arguments or keywords.		
Defaults	On for active connection mode; Off for passive connection mode		
Command Modes	GigabitEthernet Interface Configuration		
Usage Guidelines	Note that auto-negotiation does not work when the SCE Platformis connected via an optical splitter.		
	Authorization: admin		
Examples	The following example configures the SCE Platform to perform no auto-negotiation. <i>SCE</i> (config if)#no auto-negotiate <i>SCE</i> (config if)#		
Related Commands			

bandwidth

	Sets Ethernet shaping.				
	bandwidth bandwidth burst-size burstsize				
	· · · · · · · · · · · · · · · · · · ·				
Syntax Description	<i>bandwidth</i> bandwidth measured in kbps.				
	<i>burstsize</i> Burst size in bytes.				
Defaults	Bandwidth = 100000K (100 Mbps)				
	burst-size = 5000 (5K bytes)				
Command Modes	FastEthernet Interface Configuration GigabitEthernet Interface Configuration				
Usage Guidelines	This command is valid for the FastEthernet and GigabitEthernet line interfaces only.				
	Interface FastEthernet 0/# Interface GigabitEthernet 0/#				
	Authorization: admin				
Examples	The following sets bandwidth and burst size.				
	SCE(config-if)#bandwidth 100000 burstsize 5000 SCE(config-if)#				

blink

	Blinks a slot LED for visual identification. Use the no form of this command to stop the slot blinking.
	blink slot slot-number no blink slot slot-number
Syntax Description	<i>slot-number</i> The number of the identified slot. Enter a value of 0.
Defaults	Not blinking
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example configures the SCE Platform to stop blinking.
	SCE#no blink slot 0 SCE#
Related Commands	show blink (on page 2-145)

boot system

	Specifies a new package file to install. The SCE Platform extracts the actual image file(s) from the specified package file only during the copy running-config startup-config command.
	When using the no version of this command, you do not have to specify the package-file-name.
	boot system ftp://username[:password]@server-address[:port]/path/source-file destination-file
	no boot system ftp://username[:password]@server-address[:port]/path/source-file destination-file
Syntax Description	<i>ftp://destination-file</i> The ftp site and path of a package file that contains the new firmware. The filename should end with the .pkg extension.
Defaults	This command has no default settings.
Command Modes	Global Configuration
Usage Guidelines	Use this command to upgrade the SCE Platform embedded firmware. The package file is verified for the system and checked that it is not corrupted. The actual upgrade takes place only after executing the copy running-config startup-config command and rebooting the SCE Platform.
	Authorization: admin
Examples	The following example upgrades the system.

SCE(config)#boot system ftp://vk:vk@10.1.1.230/downloads/SENum.pkg.pkg

Verifying package file...

Package file verified OK.

SCE(config)#exit

SCE#copy running-config startup-config

Backing –up configuration file...

Writing configuration file...

Extracting new system image...

Extracted OK.

calendar set

Sets the system calendar. The calendar is a system clock that continues functioning even when the system shuts down.

calendar set hh:mm:ss day month year

Syntax Description	hh:mm:ss	Current local time in hours in 24-hour format, minutes and seconds (HH:MM:SS).
	day	Current day (date) in the month.
	month	Current month (by three-letter abbreviated name).
	year	Current year using a 4-digit number.

Defaults

Defaults						
Command Modes	Privileged EX	KEC				
Usage Guidelines	Always coordinate between the calendar and clock by using the clock read-calendar command after setting the calendar.					
	For further in	formati	on on se	etting the cloc	k, see	Setting the Clock.
	Authorization	: admir	1			
Examples	The following example sets the calendar to 20 minutes past 10 AM, October 13, 2001, synchronizes the real-time clock to the calendar time, and displays the result.					
	<i>SCE</i> #calenda <i>SCE</i> #clock r <i>SCE</i> #show ca	ar set 1 ead-cal alendar	0:20:00 endar	13 oct 2001		
	10:20:03	UTC	THU	October	13	2001
	SCE#show cl	lock				
	10:20:05	UTC	THU	October	13	2001
	SCE#					
Related Commands	show calenda	er (on page	age 2-14 2-147)	6)		
	SHOW CIDEN (U	m puse	<u>~ 177</u>)			

Cisco Service Control Engine (SCE) CLI Command Reference

cd

	Changes the	e path of the current working directory.
	cd new-path	h
Syntax Description	new-path	The path name of the new directory. This can be either a full path or a relative path.
Defaults		
Command Modes	Privileged l	EXEC
Usage Guidelines	The new pa	th should already have been created in the local flash file system.
	Authorizati	on: admin
Examples	The followidirectory lo	ing example shows the current directory and then changes the directory to the log ocated under the root directory.
	SCE#pwd tffs0 SCE#cd log	g
	SCE#pwd tffs0:log SCE#	

clear arp-cache

Deletes all dynamic entries from the ARP cache.

The Address Resolution Protocol (ARP) is a TCP/IP protocol that converts IP addresses to physical addresses. Dynamic entries are automatically added to and deleted from the cache during normal use. Entries that are not reused age and expire within a short period of time. Entries that are reused have a longer cache life.

clear arp-cache

Syntax Description	This command has no arguments or keywords.				
Defaults	This command has no default settings				
Command Modes	Privileged EXEC				
Usage Guidelines					
	Authorization: admin				
Examples	The following example clears the ARP cache. SCE#clear arp-cache SCE#				
	SCE#clear arp-cache SCE#				

clear interface LineCard

Clears the LineCard Interface counters.

clear interface LineCard *slot-number* counters

Syntax Description	<i>slot-number</i> The number of the identified slot. Enter a value of 0.					
Defaults						
Command Modes	Privileged EXEC					
Usage Guidelines						
	Authorization: admin					
Examples	The following example clears the Line-Card 0 counters.					
	SCE#clear interface LineCard 0 counters SCE#					
Related Commands						

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clear interface LineCard subscriber

Clears all anonymous subscribers in the system.

clear interface LineCard *slot-number* subscriber anonymous all

Syntax Description	<i>slot-number</i> The number of the identified slot. Enter a value of 0.			
Defaults				
Command Modes	Privileged EXEC			
Usage Guidelines				
	Authorization: admin			
Examples	The following example clears all anonymous subscribers. SCE#clear interface LineCard 0 subscriber anonymous all			
Related Commands	no subscriber (on page 2-111)			

clear interface LineCard subscriber db counters

Clears the "total" and "maximum" subscribers database counters. clear interface LineCard *slot-number* subscriber db counters

Syntax Description	<i>slot-number</i> The number of the identified slot. Enter a value of 0.					
Defaults						
Command Modes	Privileged EXEC					
Usage Guidelines						
	Authorization: admin					
Examples	The following example clears all anonymous subscribers. SCE#clear interface LineCard 0 subscriber db counters					

Related Commands

CLI Commands

clear interface LineCard traffic-counter

Clears the specified traffic counter.	
clear interface LineCard slot-number traffic-counter name [all]	

Syntax Description	<i>slot-number</i> The number of the identified slot. Enter a value of 0.				
	<i>name</i> Name of the traffic counter to be cleared.				
Defaults					
Command Modes	Privileged EXEC				
Usage Guidelines	Use the all keyword to clear all traffic counters.				
Usage Guidelines					
	Authorization: admin				
Examples	The following example clears the traffic counter name counter1.				
	SCE#clear interface LineCard 0 traffic-counter name counter1				

clear logger

	Clears SCE Platform logger (user log files). This erases the information stored in the user log files.						
	When using the counters keyword, it clears the counters of the SCE Platform logger (user log files). The counters keep track of the number of info, warning, error and fatal messages.						
	When using the nv-counters keyword, it clears the non-volatile counters for the entire log or only the specified SCE Platform. These counters are not cleared during bootup, and must be cleared explicitly by using this command.						
	clear logger [device user-file-log/debug-file-log] [counters nv-counters]						
Syntax Description	<i>device</i> The device name to be cleared, either user-file-log or debug-file-log						
Defaults	This command has no default settings.						
Command Modes	Privileged EXEC						
Usage Guidelines	The users log files have a size limit, with new entries overwriting the oldest entries. Therefore, there is no need to regularly clear the log files. Use this operation when you are certain that the information contained on the logs is irrelevant and might be confusing (For example, when re-installing the system at a new site, whose administrators should not be confused with old information).						
	Authorization: admin						
Examples	The following examples illustrate the use of the clear logger command:						
	EXAMPLE 1:						
	The following example clears the SCE Platformuser file logs:						
	SCE#clear logger device user-file-log Are you sure?Y SCE#						
	EXAMPLE 2:						
	The following example clears the user log file SCE Platformcounters.						

SCE#clear logger device user-file-log counters Are you sure?Y SCE#

EXAMPLE 3:

The following example clears the user log file non-volatile counters.

SCE#clear logger device user-file-log nv-counters Are you sure?Y SCE#

Related Commands show logger device User-File-Log (on page 2-196)

Cisco Service Control Engine (SCE) CLI Command Reference

clear RDR-formatter

Clears the RDR formatter counters.

clear RDR-formatter

Syntax Description	This command has no arguments or keywords.						
Defaults	This command has no default settings.						
Command Modes	Privileged EXEC						
Usage Guidelines							
	Authorization: admin						
Examples	The following example clears the RDR-formatter counters. SCE#clear RDR-formatter SCE#						
Related Commands	show RDR-formatter (on page 2-203)						

clock read-calendar

Synchronizes clocks by setting the system clock from the calendar. clock read-calendar

Syntax Description	This command has no arguments or keywords.							
Defaults	This command has no default settings.							
Command Modes	Privileged EXEC							
Usage Guidelines								
	Authorization: admin							
Examples	The following example updates the system clock from the calendar. SCE#clock read-calendar SCE#							

clock set

	Manually se	Manually sets the system clock.						
	clock set hh	e:mm:ss c	lay mon	th year				
Syntax Description	hh:mm:ss	Current local time in hours in 24-hour format, minutes and seconds (HH:MM:SS).						
	day	Current day (date) in the month.						
	month	Current month (by three-letter abbreviated name).						
	year	Current year using a 4-digit number.						
Defaults								
Command Modes	Privileged F	EXEC						
Usage Guidelines	Always coordinate between the calendar and clock by using the clock update-calendar command after setting the clock.							
	Authorizatio	on: admir	1					
Examples	The following example sets the clock to 20 minutes past 10 PM, October 13, 2001.							
	SCE#clock set 22:20:00 13 oct 2001 SCE#clock update-calendar SCE#show clock							
	22:21:10 <i>SCE</i> #show	UTC calendar	THU	October	13	2001		
	22:21:18 <i>SCE</i> #	UTC	THU	October	13	2001		
Related Commands	clock update-calendar (on page 2-37)							
	show calendar (on page 2-146)							
	show clock (on page 2-147)							

clock summertime

Configures the SCE Platform to automatically switch to daylight savings time on a specified date, and also to switch back to standard time. In addition, the three-letter time zone code can be configured to vary with daylight savings time if required. (For instance, in the eastern United States, standard time is designated EST, and daylight savings time is designated EDT).

Use the no form of this command to cancel the daylight savings time transitions configuration.

clock summertime no clock summertime

The format of the command varies somewhat, depending on how the dates for the beginning and end of daylight savings time are determined for the particular location:

• recurring: If daylight savings time always begins and ends on the same day every year, (as in the United States):

Use the clock summer-time recurring command

- The year parameter is not used
- not recurring: If the start and end of daylight savings time is different every year, (as in Israel):

Use the clock summer-time command

• The year parameter must be specified

General guidelines for configuring daylight savings time transitions:

- Specify the three letter time zone code for daylight savings time.
- recurring: specify a day of the month (week#|first|last/day of the week/month).
- not recurring: specify a date (month/day of the month/year).
- Define two days:
 - Day1 = beginning of daylight savings time.
 - Day2 = end of daylight savings time.

In the Southern hemisphere, month2 must be before month1, as daylight savings time begins in the fall and ends in the spring.

- Specify the exact time that the transition should occur (24 hour clock).
 - Time of transition into daylight savings time: according to local standard time.
 - Time of transition out of daylight savings time: according to local daylight savings time.

For the **clock summer-time recurring** command, the default values are the United States transition rules:

- Daylight savings time begins: 2:00 (AM) on the first Sunday of April.
- Daylight savings time ends: 2:00 (AM) on the last Sunday of October.

Syntax Description	zone	The 3-letter code for the time zone for daylight savings.					
	week1/week2	The week of the month on which daylight savings begins (week1) and ends (week2). A day of the week, such as Monday, must also be specified. The week/day of the week is defined for a recurring configuration only. Default: Not used					
	day1/day2	The day of the week on which daylight savings begins (day1) and ends (day2). For recurrent configuration: day is a day of the week, such as Sunday. Use the keywords first/last to specify the occurrence of a day of the week in a specified month: For example: last Sunday March. For non-recurrent configuration: day is a day in the month, such as 28. Default: day1 = first Sunday, day2 = last Sunday					
	month1/mont	The month in which daylight savings begins (month1) and ends (ends2). Default: month1 = April, month2 = October					
	year1/year2	The year in which daylight savings begins (month1) and ends (ends2). For non - recurring configuration only. Default = not used					
	time1/time2	The time of day (24-hour clock) at which daylight savings begins ($time1$) and ends ($time2$). Required for all configurations. Default: time1/time2 = 2:00					
	offset	The difference in minutes between standard time and daylight savings time. Default = 60					
Defaults	 recurring, offset = 60 minutes Daylight savings time begins: 2:00 (AM) on the first Sunday of April. Daylight savings time ends: 2:00 (AM) on the last Sunday of October. 						
Command Modes	Global Configuration						
Usage Guidelines	Use the recurring keyword to enable subscriber notification.						
		Cisco Service Control Engine (SCE) CLI Command Reference					

Use the **first/last** keywords to specify the occurrence of a day of the week in a specified month: For example: last Sunday March.

Use a specific date including the year for a not recurring configuration. For example: March 29, 2004.

Use week/day of the week/month (no year) for a recurring configuration:

- Use first/last occurrence of a day of the week in a specified month. For example: last, Sunday, March (the last Sunday in March).
- Use the day of the week in a specific week in a specified month. For example: 4,Sunday, March (the fourth Sunday in March). This would be different from the last Sunday of the month whenever there were five Sundays in the month.

Authorization: admin

Examples

The following examples illustrate the use of the clock summertime command:

EXAMPLE 1:

The following example shows how to configure recurring daylight savings time for a time zone designated "DST" as follows:

- Daylight savings time begins: 0:00 on the last Sunday of March.
- Daylight savings time ends: 23:59 on the Saturday of fourth week of November.
- Offset = 1 hour (default)

SCE(config)#clock summer-time DST recurring last Sunday March 00:00 4 Saturday November 23:59

EXAMPLE 2:

The following example shows how to configure non-recurring daylight savings time for a time zone designated "DST" as follows:

- Daylight savings time begins: 0:00 on April 16, 2005.
- Daylight savings time ends: 23:59 October 23, 2005.
- Offset = 1 hour (default)

SCE(config)#clock summer-time DST April 16 2005 00:00 October 23 2005 23:59

EXAMPLE 3:

The following example shows how to cancel the daylight savings configuration.

From the *SCE*(config) # prompt, type **no clock summer-time** and press **Enter**.
SCE(config)#no clock summer-time

clock timezone

Sets the time zone. Use the no version of this command to remove current time zone setting. The purpose of setting the time zone is that the system can correctly interpret time stamps data coming from systems located in other time zones.

clock timezone zone hours [minutes]

no clock timezone

Syntax Description	zone	The name of the time zone to be displayed.
	hours	The hours offset from GMT (UTC). This must be an integer in the range -23 to 23.
	minutes	The minutes offset from GMT (UTC). This must be an integer in the range of 0 to 59. Use this parameter to specify an additional offset in minutes when the offset is not measured in whole hours.
De facilita	GMT (bou	rs = 0
Defaults	GIVIT (IIOu	15 - 0)
Command Modes	Global Co	nfiguration
Usage Guidelines		
	Authorizat	ion: admin
Examples	The follow behind GN	ving example sets the time zone to Pacific Standard Time with an offset of 10 hours 4T.
	<i>SCE</i> (confi <i>SCE</i> (confi	g)#clock timezone PST –10 g)#

clock update-calendar

Synchronizes clocks by setting the calendar from the system clock. **clock update-calendar**

Syntax Description	This command has no arguments or keywords.
Defaults	This command has no default settings.
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example updates the calendar according to the clock. SCE#clock update-calendar SCE#
Related Commands	clock set (on page 2-31) show calendar (on page 2-146) show clock (on page 2-147)

configure

Enables the user to move from Privileged Exec Mode to Configuration Mode. **configure**

Syntax Description	This command has no arguments or keywords.
Defaults	This command has no default settings.
Command Modes	Privileged EXEC
Usage Guidelines	After the user enters the configure command, the system prompt changes from <host-name># to <host-name>(config)#, indicating that the system is in Global Configuration Mode. To leave Global Configuration Mode and return to the Privileged Exec Mode prompt, type exit.</host-name></host-name>
	Authorization: admin
Examples	The following example enters the Global Configuration Mode. <i>SCE</i> #configure <i>SCE</i> (config)#
Related Commands	exit (on page 2-53)

connection-mode (SCE 1000 platform)

Sets the connection mode to either inline (on the wire) or receive-only (using beam splitter or switch).

connection-mode connection-mode on-failure on-failure

Syntax Description	<i>connection-mode</i> inline or receive-only setting.
	inlineSCE Platform is connected in a bump-in-the-wire topology.receive-onlySCE Platform is connected in a out of the line topologyusing a beam splitter or switch.
	On-failure determines system behavior on failure of the SCE Platform. (inline topologies only) Bypass cutoff
Defaults	connection mode = inline
Command Modes	LineCard Interface Configuration
Usage Guidelines	
	Authorization: admin
Examples	The following example sets the connection-mode to inline and the on-failure mode to cutoff. <i>SCE</i> (config if)#connection-mode inline on-failure cutoff

connection-mode (SCE 2000 platform)

Sets the connection mode parameters.

connection-mode *connection-mode* **physically-connected-links** *physically-connected-links* **Priority** *Priority* **On-failure** *On-failure*

Syntax Description	connection mode inline: single SCE Platform inline	
	receive-only: single SCE Platform receive-only	
	inline-cascade: two SCE Platforms inline	
	receive-only-cascade: two SCE Platforms receive-only	
	<i>physically-connected-links</i> The number of the link connected to the SCE Platform. (two Se Platform topology only) link 0 link 1	
	Priority Defines which is the primary SCE Platform.(two SCE Platform topologies only). primary secondary	
	On-failure Determines system behavior on failure of the SCE Platform. (inline topologies only) Bypass cutoff	
Defaults		
Command Modes	LineCard Interface Configuration	
Usage Guidelines		
	Authorization: admin	
Examples	The following example show how to configure the primary SCE Platform in a two-SCE Platform inline topology. Link "0" is connected to this SCE Platform, and the behavior of the SCE Platform if a failure occurs is "bypass".	
	<i>SCE</i> (config if)#connection-mode inline-cascade physically-connected-links link-0 priority primary on-failure bypass <i>SCE</i> (config if)#	

Related Commands

Cisco Service Control Engine (SCE) CLI Command Reference

сору

	Copies any file from a source directory to a destination directory on the local flash file system. copy <i>source-file destination-file</i>
Syntax Description	source-file The name of the original file.
	destination-file The name of the new destination file.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	Both file names should be in 8.3 format, that is, there are a maximum of 8 characters before the period and three characters following it.
	Authorization: admin
Examples	The following example copies the local analysis.sli file located in the root directory to the applications directory.
	SCE#copy analysis.sli applications/analysis.sli SCE#

copy ftp://

Downloads a file from a remote station to the local flash file system, using FTP. **copy ftp:**//username[:password]@server-address[:port]/path/source-file destination-file

Syntax Description	username	The username known by the FTP server.
	password	The password of the given username.
	server-addre	ess The dotted decimal IP address of the FTP server.
	Port	Optional port number on the FTP server.
	source-file	The name of the source file located in the on the server.
	destination-j	<i>file</i> The name of the file to be saved in the local flash file system. The file should be in 8.3 format, that is 8 digits, dot, then 3 digits.

Defaults

Command Modes	Privileged EXEC
Usage Guidelines	Use the following syntax for remote upload/download using FTP:
	ftp://username[:password]@server-address[:port]/path/file
	You can configure keyword shortcuts for the copy command using the following commands:
	• IP ftp password to configure a password shortcut.
	• IP ftp username to configure a username shortcut.
	Authorization: admin
Examples	The following example downloads the ftp.sli file from the host 10.1.1.105 with user name "vk" and password "vk".
	SCE#copy ftp://vk:vk@10.1.1.105/p:/applications/ftp.sli SCE#

Cisco Service Control Engine (SCE) CLI Command Reference

copy-passive	
	Uploads or downloads a file using passive FTP.
	copy-passive source-file ftp: //username[:password]@server-address[:port]/path/destination-file [overwrite]
Syntax Description	<i>source-file</i> The name of the source file located in the local flash file system.
	<i>username</i> The username known by the FTP server.
	<i>password</i> The password of the given username.
	server-address The dotted decimal IP address.
	<i>port</i> Optional port number on the FTP server.
	destination-file The name of the file to be created in the FTP server.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	Use the following format for remote upload/download using FTP: ftp://username[:password]@serveraddress[:port]/path/file
	Use the overwrite keyword to permit the command to overwrite an existing file.
	You can configure keyword shortcuts for the copy command using the following commands:
	• IP ftp password to configure a password shortcut.
	• IP ftp userName to configure a username shortcut.
	Authorization: admin
Examples	The following example performs the same operation as the previous copy ftp example using passive FTP.
	SCE#copy-passive appl/analysis.sli ftp://myname:mypw@10.1.1.105/p:/applications/analysis.sli SCE#

copy running-config startup-config

Builds a configuration file with general configuration commands called config.txt, which is used in successive boots.

copy running-config startup-config

Syntax Description	This command has no arguments or keywords.	
Defaults	This command has no default settings.	
Command Modes	Privileged EXEC	
command modes	This command must be entered to save newly configured peremeters, so that they will be effective	
	after a reboot. You can view the running configuration before saving it using the more running -	
Usage Guidelines	config command.	
	The old configuration file is automatically saved in the tffs0:system/prevconf directory.	
	Authorization: admin	
Examples	The following example saves the current configuration for successive boots.	
	SCE#copy running-config startup-config	
	Backing-up configuration file	
	Writing configuration file	
	SCE#	

copy source-file ftp:// Uploads a file to a remote station, using FTP. **copy** source-file **ftp:**//username[:password]@server-address[:port]/path/destination-file Syntax Description The name of the source file located in the local flash file system. source-file username The username known by the FTP server. The password of the given username. password server-address The dotted decimal IP address. Optional port number on the FTP server. port destination-file The name of the file to be created in the FTP server. Defaults **Command Modes** Privileged EXEC Use the following format for remote upload/download using FTP: **Usage Guidelines** ftp://username[:password]@serveraddress[:port]/path/file You can configure keyword shortcuts for the **copy** command using the following commands: • **IP ftp password** to configure a password shortcut. • **IP ftp userName** to configure a username shortcut. Authorization: admin The following example uploads the analysis.sli file located on the local flash file system to the Examples host 10.1.1.105. SCE#copy /appl/analysis.sli ftp://myname:mypw@10.1.1.105/p:/applications/analysis.sli SCE#

default subscriber template all

Removes all user-defined subscriber templates from the system. The default template only remains.

default subscriber template all

Syntax Description	This command has no arguments or keywords.
Defaults	This command has no default settings.
Command Modes	LineCard Interface Configuration
Usage Guidelines	
	Authorization: admin
Examples	The following example removes all user-defined subscriber templates.
	SCE(config if)# default subscriber template all SCE(config if)#
Related Commands	

delete

	Deletes a file from the local flash file system.
	Use the recursive switch to delete a complete directory and its contents. When used with the recursive switch, the filename argument specifies a directory rather than a file.
	delete file-name [/recursive]
Syntax Description	<i>file-name</i> The name of the file or directory to be deleted.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following examples illustrate the delete command:
	EXAMPLE 1:
	The following example deletes the oldlog.txt file.
	SCE#delete oldlog.txt SCE#
	EXAMPLE 2:
	The following example deletes the oldlogs directory.
	SCE#delete oldlogs /recursive 3 files and 1 directories will be deleted. Are you sure? y 3 files and 1 directories have been deleted. SCE#

dir				
	Display	s the files in the current director	ry.	
	dir [ap]	plications] [-r]		
Syntax Description	applica	tions Filters the list of files to	display only the ap	plication files in the current directory.
	-r	Includes all files in the su the current directory.	abdirectories of the	current directory as well as the files in
Defaults				
Command Modes	Privileg	ed EXEC		
Usage Guidelines				
	Authori	zation: admin		
Examples	The foll SCE#di	lowing example displays the file	es in the current dir	ectory (root).
	512 512 7653 29	TUE JAN 01 00:00:00 1980 TUE JAN 01 00:00:00 1980 TUE JAN 01 00:00:00 1980 TUE JAN 01 00:00:00 1980 TUE JAN 01 00:00:00 1980	LOGDBG LOG FTP.SLI SCRIPT.TXT	DIR DIR
	512 <i>SCE</i> #	TUE JAN 01 00:00:00 1980	SYSTEM	DIR

disable

	Moves the user from a higher level of authorization to a lower user level.		
	disable [level]	
Syntax Description	level	User authorization level (0, 10, 15) as specified in Login and User Levels, in table Authorization Levels.	
Defaults	This com	mand has no default settings.	
Command Modes	Exec		
Usage Guidelines	Use this of specified	command with the level option to lower the user privilege level. If a level is not , it defaults to User mode.	
	Authoriz	ation: user	
Examples	The following example shows exits from root to admin mode:		
	SCE#>d SCE#	isable 10	

duplex

	Configures the duplex operation of the FastEthernet Interface to either half duplex, or full duplex. auto means auto-negotiation (do not force duplex on the link).
	duplex mode no duplex mode
Syntax Description	<i>mode</i> Set to auto , full or half to indicate the duplex mode.
Defaults	Auto
Command Modes	FastEthernet Interface Configuration
Usage Guidelines	Changing this configuration takes effect only if the speed (see <i>speed</i> (on page 2-245)) is not configured to auto .
	Authorization: admin
Examples	The following example configures the FastEthernet port to half duplex mode. SCE (config if)# duplex half SCE (config if)#

enable Enables the user to access a higher authorization level. enable [level] Syntax Description User authorization level (0, 10, 15) as specified in in Login and User Levels, in level table Authorization Levels. Defaults admin Exec Command Modes Usage Guidelines If a level is not specified, the level defaults to the Privileged Exec mode, level 10. Authorization: User The following example accesses the administrator authorization level. Note that the prompt Examples changes from *SCE* > to *SCE*#, indicating that the privilege is the administrator privilege level. SCE>enable Password:[pwd] SCE# **Related Commands**

enable password

Configures a password for the specified authorization level, thus preventing unauthorized users from accessing the SCE Platform.

enable password [level level] [encryption-type] password

Syntax Description	level	User authorization level (0, 10, 15) as specified in Login and User Levels, in table Authorization Levels. If no level is specified, the default is Admin (10).	
	<i>encryption-type</i> If you want to enter the encrypted version of the password, set the <i>encryption type</i> to 5 , to specify the algorithm used to encrypt the password.		
	password	A regular or encrypted password set for the access level. If you specify <i>encryption-type</i> , you must supply an encrypted password.	
Defaults	password: F	ocube or cisco	
Command Modes	Global Con	figuration	
Usage Guidelines	After the command is entered, any user executing the enable command must supply the specified password.		
	• Passwords must be at least 4 and no more than 100 characters long.		
	Passwords can contain any printable characters.		
	• Passwords must begin with a letter.		
	Passwords cannot contain spaces.		
	Passwords are case-sensitive.		
	Authorizati	on: admin	
Examples	The followi	ng example sets a level 10 password as a123*man.	
	<i>SCE</i> (config <i>SCE</i> (config	()#enable password level 10 a123*man ()#	
Related Commands	no enable p	assword (on page 2-101)	

Cisco Service Control Engine (SCE) CLI Command Reference

exit

Exits the current mode and reverts to the mode used prior to the current mode. exit Syntax Description This command has no arguments and keywords. 0 Defaults All **Command Modes** Use this command each time you want to exit a mode. The system prompt changes to reflect the Usage Guidelines lower-level mode. Authorization: admin The following example exits from the Configure Interface Mode to Global Configuration Mode Examples and then to Privileged Exec Mode. SCE(config if)#exit SCE(config)#exit SCE#

failure-recovery operation-mode

Specifies the operation mode to be applied after boot resulting from failure. When using the **no** or **default** switch, you do not have to specify the mode.

failure-recovery operation-mode mode

no failure-recovery operation-mode

default failure-recovery operation-mode

Syntax Description	<i>mode</i> operational or non-operational . Indicates whether the system will boot as operational or not following a failure.
Defaults	mode = operational
Command Modes	Global Configuration
Usage Guidelines	Authorization: admin
Examples	The following example sets the system to boot as operational after a failure <i>SCE</i> (config)# failure-recovery operation-mode operational <i>SCE</i> (config)#

Related Commands

force failure-condition (SCE 2000 only)

Forces a virtual failure condition, and exits from the failure condition, when performing an application upgrade.

force failure-condition

no force failure-condition

Syntax Description	This command has no arguments or keywords
Defaults	This command has no default settings.
Command Modes	LineCard Interface Configuration
Usage Guidelines	
	Authorization: admin
Examples	The following example forces a virtual failure condition. <i>SCE</i> (config if)#force failure-condition

help

	Prints a list of keyboard bindings (shortcut commands). help bindings
Syntax Description	This command has no arguments or keywords.
Defaults	This command has no default settings.
Command Modes	Exec
Usage Guidelines	Authorization: User
Examples	The following example shows the partial output of the help bindings command.

SCE>help bindings

Line Cursor	Movements
-------------	-----------

Ctrl-F /->	Moves cursor one character to the right.
Ctrl-B /<-	Moves cursor one character to the left.
Esc-F	Moves cursor one word to the right.
Esc-B	Moves cursor one word to the left.
Ctrl-A	Moves cursor to the start of the line.
Ctrl-E	Moves cursor to the end of the line.
Esc F	Moves cursor forward one word.
Esc B	Moves cursor backward one word.

Editing

Ctrl-D	Deletes the character where the cursor is located.
Esc-D	Deletes from the cursor position to the end of the word.
Backspace	Deletes the character before the current location of the cursor.
Ctrl-H	
Ctrl-K	Deletes from the cursor position to the end of the line.
Ctrl-U	Deletes all characters from the cursor to the beginning of the line.
Ctrl-X	
Ctrl-W	Deletes the word to the left of the cursor.
Ctrl-Y	Recall the last item deleted.

Help and Operation Features

?	Argument help.
<tab></tab>	Toggles between possible endings for the typed prefix
<esc><tab></tab></esc>	Displays all the possible arguments backwards.
Ctrl-I	<tab></tab>

SCE>

history

Enables the history feature, that is, a record of the last command lines that executed. Use the no form of this command to disable history.

history no history

Syntax Description	This command has no arguments or keywords.
Defaults	History is enabled.
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example enables the history feature. <i>SCE</i> #history <i>SCE</i> # The following example disables the history feature. <i>SCE</i> #no history <i>SCE</i> #

history size

Sets the number of command lines that the system records in the history.

history size *size* no history size

Syntax Description	<i>size</i> The number of command lines stored in the history of commands for quick recall.
Defaults	10 lines
Command Modes	Privileged EXEC
Usage Guidelines	The size of the history buffer can be any number from 0-50. Use the [no] form of this command to restore the default size.
	Authorization: admin
Examples	The following example sets the history buffer size to 50 command lines.
	SCE#history size 50 SCE#

hostname

Modifies the name of the SCE Platform. The host name is part of the displayed prompt. hostname host-name Syntax Description The new host name. host-name SCE **Global Configuration** Command Modes

Usage Guidelines

Defaults

Authorization: admin

The following example changes the host name to MyHost. Examples SCE(config)#>hostname MyHost MyHost(config)#>psnn

interface FastEthernet

	Enters FastEthernet Interface Configuration mode.
	interface FastEthernet slot-number/interface-number
Cumtou Decemintion	
Syntax Description	<i>slot-number</i> The number of the identified slot. Enter a value of U .
	<i>interface-number</i> The FastEthernet interface number. Enter a value of 0 to configure the management port, or a value of 1 - 4 to configure one of the line ports.
Defaults	
Command Modes	Global Configuration
Usage Guidelines	Use this command to configure the management port for the SCE1000 and the SCE2000 platforms.
	This command is used to configure the line ports only for the SCE 2000 4/8xFE.
	The system prompt is changed to reflect the Fast Ethernet Interface Configuration mode. To return to the Global Configuration Mode, type exit .
	Authorization: admin
Examples	The following example enters into FastEthernet Configure Interface Mode.
	SCE(config)#interface FastEthernet 0/0 SCE(config if)#

interface GigabitEthernet

Enters GigabitEthernet Interface Configuration mode. interface GigabitEthernet *slot-number/interface-number*

Syntax Description	<i>slot-number</i> Enter a value of 0 .
	<i>interface-number</i> The GigabitEthernet interface number. Enter a value of 1 - 4 to configure one of the line ports.
Defaults	
Command Modes	Global Configuration
Usage Guidelines	Use this command to configure the line ports only for SCE 2000 4xGBE platform. This command is not used for configuring the management ports.
	The SCE 1000 platform uses line ports 1 - 2 and the SCE 2000 platform uses line ports 1 - 4.
	The system prompt is changed to reflect the GigabitEthernet Interface Configuration mode. To return to the Global Configuration Mode, type exit .
	Authorization: admin
Examples	The following example enters into GigabitEthernet Configure Interface Mode to configure line port 1.
	SCE(config)#interface GigabitEthernet 0/1 SCE(config if)#

interface LineCard

Enters LineCard Interface Configuration Mode. interface LineCard *slot-number*

Syntax Description	<i>slot-number</i> The number of the identified slot. Enter a value of 0.
Defaults	This command has no default settings.
Command Modes	Global Configuration
Usage Guidelines	The system prompt is changed to reflect the Line Card Configuration mode. To return to the Global Configuration Mode, type exit . Authorization: admin
Examples	The following example enters LineCard Interface Configuration Mode. SCE(config)#interface LineCard 0 SCE(config if)#

ip access-class

Set the global IP access class. The access list defined here contains the definitions for all IP addresses with permission to access the SCE Platform system. IP addresses not permitted in this access list cannot access or detect the SCE Platform, that is, even a ping command will receive no response if it is not from a permitted IP address.

ip access-class number

Syntax Description	<i>number</i> The access-class number.
Defaults	none (all IP addresses can access the system)
Command Modes	Global Configuration
Usage Guidelines	
	Authorization: admin
Examples	The following example sets access list 1 as the global access list.
	SCE(config)#ip access-class 1 SCE(config)#
Related Commands	no ip access-class (on page 2-102)

Cisco Service Control Engine (SCE) CLI Command Reference

ip address

	Sets the IP address and subnet mask of the FastEthernet Management Interface.
	ip address new-address subnet-mask
Syntax Description	new-address The new IP address.
	subnet-mask The network mask for the associated IP network.
Defaults	
Command Modes	FastEthernet Interface Configuration
Usage Guidelines	If there is a routing table entry mapped to the old address, but not to the new address, the command may fail.
	This command is valid for the management interface only, Interface FastEthernet 0/0 .
	Authorization: admin
Examples	The following example sets the IP address of the SCE Platform to 10.1.1.1 and the subnet mask to 255.255.0.0.
	<i>SCE</i> (config if)# ip address 10.1.1.1 255.255.0.0 <i>SCE</i> (config if)#

ip advertising	
	Enables IP advertising. If the destination and/or interval is not configured, the default values are assumed.
	Use the no version of the command to disable IP advertising.
	Use the default version of the command to restore IP advertising destination or interval to the default values.
	ip advertising [destination destination] [interval interval] no ip advertising default ip advertising
Syntax Description	<i>destination</i> The IP address of the destination for the ping requests Default: 127.0.0.1
	<i>interval</i> The frequency of the ping requests in seconds Default: 300 seconds
Defaults	disabled
	destination $= 127.0.0.1$
	interval = 300 seconds
Command Modes	Global Configuration
Usage Guidelines	
	Authorization: admin
Examples	The following examples illustrate the use of the ip advertising command:
	EXAMPLE 1:
	The following example enables IP advertising, specifying 10.1.1.1 as the destination and an interval of 240 seconds.
	SCE(config)#ip advertising destination 10.1.1.1 interval 240 SCE(config)#
	EXAMPLE 2:
	The following example restores the IP advertising destination to the default value.

SCE(config)#default ip advertising destination SCE(config)#

ip default-gateway

Configures the default gateway for the SCE Platform. Use the **no** form of this command to unset the SCE Platform default gateway.

ip default-gateway *x.x.x.x*

no ip default-gateway

Syntax Description	<i>x.x.x.x</i> The IP address of the default gateway for the SCE Platform.
Defaults	
Command Modes	Global Configuration
Usage Guidelines	
	Authorization: admin
Examples	The following example sets the default gateway IP of the SCE Platform to 10.1.1.1.
	SCE(config)#ip default-gateway 10.1.1.1 SCE(config)#
Related Commands	

Examples

Defaults

ip domain-lookup Enables or disables the domain name lookups. Use the **no** form of the command to disable the domain name lookup. ip domain-lookup no ip domain-lookup Syntax Description This command has no arguments or keywords. enabled **Command Modes Global Configuration Usage Guidelines** Authorization: admin EXAMPLE 1: The following example enables the domain lookup. SCE(config)#ip domain-lookup

SCE(config)#

EXAMPLE 2:

The following example disables the domain lookup.

SCE(config)#no ip domain-lookup SCE(config)#

ip domain-name	
	Defines a default domain name. Use the no parameter of this command to remove the current default domain name. When using the no parameter, you do not have to specify the domain name.
	ip domain-name domain-name
	no ip domain-name
Syntax Description	<i>domain-name</i> The default domain name used to complete host names that do not specify a domain. Do not include the initial period that separates an unqualified name from the domain name.
Defaults	
Command Modes	Global Configuration
Usage Guidelines	
	Authorization: admin
Examples	The following examples illustrate the use of the ip domain-name command: EXAMPLE 1 :
	The following example configures the domain name.
	SCE(config)#ip domain-name Cisco.com SCE(config)#
	EXAMPLE 2:
	The following example removes the configured domain name.
	SCE(config)#no ip domain-name SCE(config)#
Related Commands

ip ftp password

Specifies the password to be used for FTP connections for the current session. The system will use this password if no password is given in the copy FTP command.

ip ftp password password

Syntax Description	password The password for FTP connections.	
	Default password is admin	
Defaults		
Command Modes	Privileged EXEC	
Usage Guidelines		
	Authorization: admin	
Examples	The following example sets the password to be used in the FTP connection to mypw.	
	SCE#ip ftp password mypw SCE#	

ip ftp username

Configures the username for FTP connections for the current session. This username will be used if no username is given in the copy FTP command.

ip ftp username *user-name*

Syntax Description	<i>user-name</i> The username for FTP connections.	
Default username is anonymous		
Defaults		
Command Modes	Privileged EXEC	
Usage Guidelines		
	Authorization: admin	
Examples	The following example sets myname as the username for FTP connections.	
	<i>SCE</i> #ip ftp username myname <i>SCE</i> #	

ip host

	Adds a host name and address to the host table. ip host <i>hostname ip-address</i>	
Syntax Description	<i>hostname</i> The host name to be added.	
	<i>ip-address</i> The host IP address in x.x.x.x format.	
Defaults	This command has no default settings.	
Command Modes	Global Configuration	
Usage Guidelines	Authorization: admin	
Examples	The following example adds a host to the host table.	
	<i>SCE</i> (config)#ip host PC85 10.1.1.61 <i>SCE</i> (config)#	
Related Commands	no ip host (on page 2-103)	

ip name-server	
	Specifies the address of 1–3 servers to use for name and address resolution. The system maintains a list of up to 3 name servers. If the current list is not empty, this command adds the specified servers to the list. The no option of this command removes specified servers from the current list.
	ip name-server <i>server-address1</i> [<i>server-address2</i>] [<i>server-address3</i>] no ip name-server
Syntax Description	server-address1 The IP address of the name server.
	server-address2 The IP address of an additional name server.
	server-address3 The IP address of an additional name server.
Defaults	This command has no default settings.
Command Modes	Global Configuration
Usage Guidelines	
	Authorization: admin
Examples	The following example adds the DNS 10.1.1.60 and 10.1.1.61 to the configured servers list.
	<i>SCE</i> (config)# ip name-server 10.1.1.60 10.1.1.61 <i>SCE</i> (config)#
Related Commands	

ip rmi-adapter

Enables or disables the RMI adapter. Use the **no** option of this command to disable the RMI adapter.

ip rmi-adapter

no ip rmi-adapter

Syntax Description	This command has no arguments or keywords.	
Defaults	This command has no default settings.	
Command Modes	Global Configuration	
Usage Guidelines	Authorization: admin	
Examples	The following examples illustrate the use of the ip rmi-adapter command: EXAMPLE 1 :	
	The following example enables the RMI adapter. SCE(config)# ip rmi-adapter EXAMPLE 2:	
	The following example disables the RMI adapter. SCE(config)#no ip rmi-adapter	

ip rmi-adapter port

1 I.			
	Defines the RMI adapter port.		
	Use the default option to reset the RMI adapter port assignment to the default port (1099). You not need to specify the default port number.		
ip rmi-adapter port port-number			
	default ip rmi-adapter port		
Syntax Description	port-number The number of the port assigned to the RMI adapter		
Defaults	Default port number is 1099.		
Command Modes	- Global Configuration		
Usage Guidelines			
	Authorization: admin		
Examples	The following examples illustrate the use of the ip rmi-adapter port command: EXAMPLE 1:		
	The following example shows how to configure the RMI interface, specifying 1299 as the RMI adapter port.		
	SCE(config)#ip rmi-adapter SCE(config)#ip rmi-adapter port 1299		
	EXAMPLE 2:		
	The following example shows how reset the RMI adapter port.		
	SCE(config)#default ip rmi-adapter port		

ip route

	Adds or removes an IP routing entry to the routing table. Use the no option to remove an IP routing entry from the routing table. ip route <i>prefix mask</i> [<i>next-hop</i>] no ip route <i>prefix mask</i> [<i>next-hop</i>]		
Syntax Description	prefix	The new entry's prefix.	
	mask	The new entry's subnet mask.	
	next-hop	The new entry's next hop in the route.	
Defaults			
Command Modes	Global Con	figuration	
Usage Guidelines	All addresses must be in dotted notation.		
	The next-hop must be within the Management FastEthernet Interface subnet.		
	Authorization: admin		
Examples	The following examples illustrate the use of the ip route command: EXAMPLE 1 :		
	The following example sets the next-hop to 10.1.1.2 for IP addresses in the range 244.50.4.0 to 244.50.4.255.		
	<i>SCE</i> (config)# ip route 244.50.4.0 255.255.0 10.1.1.2 <i>SCE</i> (config)#		
	EXAMPLE 2:		
	The following example removes the entry added in the previous example.		
	SCE(config SCE(config	g)# no ip route 244.50.4.0 255.255.255.0 g)#	
Related Commands	no ip route	<i>all</i> (on page 2-104)	

ip rpc-adapter

Enables the RPC adapter. Use the **no** option of this command to disable the RPC adapter. **ip rpc-adapter no ip rpc-adapter**

Syntax Description	This command has no arguments or keywords		
Defaults	This command has no default settings.		
Command Modes	Global Configuration		
Usage Guidelines	Authorization: admin		
Examples	The following examples illustrate the use of the ip rpc-adapter command: EXAMPLE 1 :		
	The following example enables the RPC adapter.		
	SCE(config)#ip rpc-adapter		
	EXAMPLE 2:		
	The following example disables the RPC adapter.		
	SCE(config)#no ip rpc-adapter		

ip rpc-adapter port

Defines the RPC adapter port. Use the **default** option to reset the RPC adapter port assignment to the default port of 14374.

ip rpc-adapter port port-number

default ip rpc-adapter port

Syntax Description	<i>port-number</i> The number of the port assigned to the RPC adapter.		
Defaults	The default port number is 14374		
Command Modes	Global Configuration		
Usage Guidelines	Authorization: admin		
Examples	The following examples illustrate the use of the ip rpc-adapter port command: EXAMPLE 1:		
	The following example shows how to configure the RPC interface, specifying 1444 as the RPC adapter port.		
	SCE(config)#ip rpc-adapter SCE(config)#ip rpc-adapter port 1444		
	EXAMPLE 2:		
	The following example shows how reset the RPC adapter port. SCE(config)#default ip rpc-adapter port		

ip ssh	
	Enables the SSH server.
	Use the no option to disable the SSH server.
	ip ssh
	no ip ssh
Syntax Description	This command has no arguments or keywords.
Defaults	This command has no default settings.
Command Modes	Global Configuration
Usage Guidelines	
	Authorization: admin
Examples	The following examples illustrate the use of the ip ssh command:
	EXAMPLE 1:
	The following example enables the SSH server.
	SCE(config)#ip ssh SCE(config)#
	EXAMPLE 2:
	The following example disables the SSH server.
	SCE(config)#no ip ssh SCE(config)#
Related Commands	

ip ssh access-	class		
	Assigns an access class list (ACL) to the SSH server, so that access to the SSH server is limited to the IP addresses defined in the ACL. (See ACLs.) Use the no keyword to remove the ACL assignment from the SSH server.		
	ip ssh access-class access-list-number no ip ssh access-class		
Syntax Description	access-list-number The access list number of an ACL		
Defaults			
Command Modes	Global Configuration		
Usage Guidelines			
	Authorization: admin		
Examples	EXAMPLE 1:		
	The following example assigns an existing ACL to the SSH server.		
	SCE(config)#ip ssh access-class 4 SCE(config)#		
	EXAMPLE 2:		
	The following example removes the ACL assignment from the SSH server. SCE(config)#no ip ssh access-class SCE(config)#		
	~ - (

Related Commands

Cisco Service Control Engine (SCE) CLI Command Reference

ip ssh key Generates or removes the SSH key set. ip ssh key [generate|remove] ip ssh key [generate|remove] Syntax Description generate generates a new SSH key set and saves it to non-volatile memory. Key size is always 2048 bits. remove removes the existing key set.

Command Modes	Global Configuration

Usage Guidelines Authorization: admin

Examples

EXAMPLE 1:

The following example generates a new SSH key set.

SCE(config)#**ip** ssh key generate *SCE*(config)#

EXAMPLE 2:

The following example removes the SSH key set,

SCE(config)#ip ssh key remove
SCE(config)#

ip tunnel

	Configures recognition of L2TP tunnels and skipping into the internal IP packet. User the no form of this command to disable tunnel recognition.
	An IP tunnel is mutually exclusive with using VLAN for classification.
	ip tunnel mode
	no ip tunnel
Syntax Description	<i>mode</i> The mode used for the L2TP tunnels.
Defaults	ip tunnel recognition is disabled
Command Modes	LineCard Interface Configuration
Usage Guidelines	
	Authorization: admin
Examples	The following example enables recognition of L2TP tunnels.
	SCE(config if)#ip tunnel L2TP skip
Related Commands	show tunnel mode (on page 2-229)

L2TP identify-by

Configures the port number that the LNS and LAC use for L2TP tunnels. The default port number is 1701.

L2TP identify-by port-number port-number

Syntax Description	<i>port-number</i> The port number to be configured for L2TP tunnels.
Defaults	1701
Command Modes	LineCard Interface Configuration
Usage Guidelines	
	Authorization: admin
Examples	The following example identifies the L2TP port as being port# 1000. <i>SCE</i> (config if)#L2TP identify-by port-number <1000>
Related Commands	

line vty	
	Enters Line Configuration Mode for Telnet lines, configuring all Telnet lines.
	line vty start-number [end-number]
Syntax Description	<i>start-number</i> A number in the range 0-4. The actual number supplied does not matter. All telnet lines will be configured by this command.
	<i>end-number</i> A number in the range 0-4. The actual number supplied does not matter. All telnet lines will be configured by this command.
Defaults	
Command Modes	Global Configuration
Usage Guidelines	The system prompt changes to reflect the Line Configuration mode. To return to Global Configuration Mode, type exit .
	Authorization: admin
Examples	The following example enters the Line Configuration Mode for all lines.
	SCE(config)#line vty 0 SCE(config-line)#

link failure-reflection

Enables/disables the link failure reflection. link failure-reflection [on-all-ports]

no link failure-reflection

Syntax Description	on-all-ports Enables reflection of a link failure to all ports
Defaults	Disabled
Command Modes	LineCard Interface Configuration
Usage Guidelines	Use the on-all-ports keyword to enable reflection of a link failure to all ports
	Use the no form of this command to disable failure reflection (the on-all-ports keyword is not used in the no form of the command).
	Authorization: admin
Examples	The following example enables the reflection of a link failure to all ports:
	SCE(config if)#link failure-reflection on-all-ports
	SCE(config if)#

link mode

Configures the link mode. The link mode allows the user to enforce the specified behavior on the link. This may be useful during installation and for debugging the network.

link mode link mode

Syntax Description	link	Use this parameter for SCE 2000 platforms only	
		GBE: GBE1-GBE2	
		GBE3-GBE4	
		FE: LINK1	
		LINK2	
		all-links	
	mode	Forwarding	
		Bypass	
		Cutoff	
		Sniffing	
Defaults			
Command Modes	LineCard	Interface Configuration	
Usage Guidelines	Use the <i>link</i> parameter for the SCE 2000 4xGBE and the SCE 2000 4/8xFE platforms only. Since		
5	the SCE 1000 platform has only one link, it is not necessary to specify the link.		
	Use the 'all-links' keyword to configure the link mode for all links (SCE 2000 platforms only).		
	The 'sniff	ing' option can be configured only for all links (use the all-links' keyword).	
	Authoriza	ation: admin	
Examples	The follo	wing examples illustrate the use of the link mode command:	
	EXAMPLE 1:		
	The follo	wing example configures "bypass" as the link mode on the first link for the SCE 2000	
	GBE plat	form.	
	SCE(config if)#link mode GBE1-GBE2 bypass		
	EXAMPLE	Ξ 2 :	
	The follo platform.	wing example configures "forwarding" as the link mode for the SCE 1000 GBE	

SCE(config if)#link mode forwarding

EXAMPLE 3:

The following example configures "sniffing" as the link mode on all links for the SCE 2000 GBE platform.

SCE(config if)#link mode all-links sniffing

logger add-user-message

Adds a message string to the user log files.

logger add-user-message message-text

Syntax Description	message-text The message string you wish to add.	
Defaults		
Command Modes	Privileged EXEC	
Usage Guidelines		
	Authorization: admin	
Examples	The following example adds "testing 123" as the message to the user log files:	
	SCE#Logger add-user-message "testing 123" SCE#	
Related Commands		

logger device User-File-Log

Disables or enables the logger device.

logger device User-File-Log status

Syntax Description	status enabled or disabled, indicating whether to turn on or off logging.
Defaults	enabled
Command Modes	Global Configuration
Usage Guidelines	
	Authorization: admin
Examples	The following example disables the User-File-Log device. SCE (config)#logger device User-File-Log disabled SCE (config)#

logger device User-File-Log max-file-size

Sets the maximum log file size.

logger device User-File-Log max-file-size

Syntax Description	<i>size</i> The maximum size for the user log (in bytes).
Defaults	1,000,000 bytes
Command Modes	Global Configuration
Usage Guidelines	
	Authorization: admin
Examples	The following example configures the maximum size of the User-File-Log device to 65000 bytes.
	SCE(config)#logger device User-File-Log max-file-size 65000 SCE(config)#

logger get support-file

Generates a log file for technical support. Note that this operation may take some time. **logger get support-file** *filename*

Syntax Description	<i>filename</i> Name of the generated log file.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example generates a log file named <i>tech_sup</i> for technical support.
	SCE#logger get support-file tech_sup SCE#
Related Commands	

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logger get use	r-log file-name
	Outputs the current user log to a target file. The output file name can be a local path, full path, or full ftp path file name.
	logger get user-log file-name target-file
Syntax Description	<i>target-file</i> The log file name where the system will write the log file information.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example retrieves the current user log files.
	SCE#logger get user-log file-name ftp://myname:mypw@10.1.1.205/d:/log.txt SCE#

logout

 Logs out of the Command-Line Interface of the SCE Platform.

 Logout

 Syntax Description

 This command has no arguments or keywords

 Defaults

 This command has no default settings.

 Command Modes

 Exec

 Usage Guidelines

 Authorization: User

 Examples

 The following example shows how the user logs out (and confirms the logout).

 SCE>logout Are you sure? Y

management-agent system Specifies a new package file to install for the management agent. The SCE Platform extracts the actual image file(s) from the specified package file only during the copy running-config startupconfig command. When using the **no** version of this command, you do not have to specify the package-file-name. management-agent system package-file-name no management-agent system Syntax Description The name of a package file that contains the new management agent Package file name software. The filename should end with the .pkg extension. Defaults **Global Configuration Command Modes** Use this command to upgrade the SCE Platform management agent. The package file is verified **Usage Guidelines** for the system and checked that it is not corrupted. The actual upgrade takes place only after executing the copy running-config startup-config command and rebooting the SCE Platform. Authorization: admin The following example upgrades the system with the mng45.pkg package. Examples SCE(config)#management-agent system mng45.pkg Verifying package file... Package file verified OK. SCE(config)#exit SCE#copy running-config startup-config Backing –up configuration file... Writing configuration file... Extracting new management agent... Extracted OK.

mkdir

	Creates a new directory.	
	mkdir directory-name	
Syntax Description	directory-name The name of the directory to be created.	
Defaults		
Command Modes	Privileged EXEC	
Usage Guidelines		
	Authorization: admin	
Examples	The following example creates a new directory named mydir.	
	<i>SCE</i> #mkdir mydir <i>SCE</i> #	

more

	Displays the contents of a file.
	more file-name
Syntax Description	<i>file-name</i> The name of the file to be displayed.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	The running-config option displays the running configuration file.
	The startup-config option displays the startup configuration file.
	Authorization: admin
Examples	The following partial sample output displays the content of some file.
	SCE#more somefile.txt I am a happy little file. SCE#
Related Commands	show running-config (on page 2-210)
	show startup-config (on page 2-223)

more user-log

Displays the user log on the CLI console screen. more user-log

Syntax Description	This command has no arguments or keywords.					
Defaults	This command has no default settings.					
Command Modes	Privileged EXEC					
Usage Guidelines						
	Authorization: admin					
Examples	The following example displays the user log on the CLI console screen. SCE#more user-log <info> 01/28/97 22:29:22 CPU #000 Logger: Task Initialized successfully</info>					

MPLS

	Configures the MPLS environment.				
	MPLS [VPN Traffic-Engineering] [skip]				
Syntax Description	VPN Labels are mandatory in the traffic.				
	Traffic-Engineering Labels are not mandatory in the traffic.				
Defaults	Traffic-Engineering				
Command Modes	LineCard Interface Configuration				
Usage Guidelines	Use the VPN keyword when the labels are mandatory in the traffic, otherwise use the Traffic-Engineering keyword.				
	Authorization: admin				
Examples	The following example selects the VPN MPLS tunnel environment. <i>SCE</i> (config if)# mpls vpn skip				

no access-list

Removes an entire access list (together with all its entries). no access-list number

Syntax Description	number An access-list number (1–99).					
Defaults	This command has no default settings.					
Command Modes	Global Configuration					
Usage Guidelines						
	Authorization: admin					
Examples	The following example removes access list 1.					
	SCE(config)#no access-list 1 SCE(config)#					
Related Commands	access-list (on page 2-4)					

Cisco Service Control Engine (SCE) CLI Command Reference

Chapter 2

no enable password

Resets the password for the specified authorization level to the default value. For the user level, this means that no password is required. For the admit and root levels, the password is restored to the default value (**pcube** or **cisco**).

no enable password [level level]

CLI Command Reference

Syntax DescriptionlevelUser authorization level (0, 10, 15) as specified in in Login and U table Authorization Levels. If no level is specified, the default is A						
Defaults	For the admin and root levels, the password is restored to the default value 'pcube'.					
Command Modes	Global Configuration					
Usage Guidelines						
	Authorization: admin					
Examples	The following example removes the requirement for user level password.					
	SCE(config)#no enable password level 0 SCE(config)#					
Related Commands	enable password (on page 2-52)					

no ip access-class

Resets global access to the SCE Platform from any IP address. **no ip access-class**

Syntax Description	This command has no arguments or keywords.					
Defaults	This command has no default settings.					
Command Modes	Global Configuration					
Usage Guidelines						
	Authorization: admin					
Examples	The following example resets global access. <i>SCE</i> (config)# no ip access-class <i>SCE</i> (config)#					
Related Commands	<i>ip access-class</i> (on page 2-64)					

no ip host Removes a host name and address from the host table. **no ip host** *hostname* [*ip-address*] Syntax Description hostname The host name to be removed. If you do not include an IP address, all mappings for the hostname are removed from the list. ip-address The host IP address. If the pair {hostname, IP-address} does not exist in the host table, the system returns no indication Defaults This command has no default settings. **Global Configuration Command Modes Usage Guidelines** Authorization: admin The following example removes a host name together with all of its IP mappings. Examples SCE(config)#no ip host PC85 SCE(config)# *ip host* (on page 2-73) **Related Commands**

no ip route all

Removes all IP routing entries from the routing table. **no ip route all**

Syntax Description	This command has no arguments or keywords.					
Defaults	This command has no default settings.					
Command Modes	Global Configuration					
Usage Guidelines						
	Authorization: admin					
Examples	The following example removes all IP routing entries from the routing table SCE(config)#no ip route all SCE(config)#					
Related Commands	<i>ip route</i> (on page 2-77)					

no RDR-formatter destination

Removes the mappings of an RDR formatter destination to categories. When all categories for a destination are removed, the entire destination is removed.

no RDR-formatter destination *ip-address* **port** *port-number* [category {name *category name* }| {number [*1-4*]}]

Syntax Description	ip-address	IP address of the destination.
	port-number	The port number of the destination.
	category	Use this parameter to remove a particular category from this destination. The category may be identified by either a user-defined name or number (1 to 4).
		If the category is specified, only the specified category is removed.
		If no category is specified, the entire destination is removed.
Defaults		
Command Modes	Global Config	guration

Usage Guidelines

Authorization: admin

Examples

EXAMPLE 1:

The following example removes an entire RDR formatter destination.

SCE(config)#no RDR-formatter destination 10.1.1.206 port 34000 SCE(config)#

EXAMPLE 2:

The following example removes only one category from the specified RDR formatter destination.

SCE(config)#**no RDR-formatter destination 10.1.1.206 port 34000 category name prepaid** *SCE*(config)# CLI Commands

RDR-formatter destination (on page 2-124)

Related Commands *no RDR-formatter destination all* (on page 2-107)

Cisco Service Control Engine (SCE) CLI Command Reference
no RDR-formatter destination all

Removes all of the configured RDR-formatter peer connection for the list of possible destinations. **no RDR-formatter destination all**

Syntax Description	This command has no arguments or keywords.			
Defaults	This command has no default settings.			
Command Modes	Global Configuration			
Usage Guidelines				
	Authorization: admin			
Examples	The following example removes all RDR formatter destinations. <i>SCE</i> (config)# no RDR-formatter destination all			
Related Commands	RDR-formatter destination (on page 2-124)			

no snmp-server community all

Removes all configured communities.

no snmp-server community all

Syntax Description	This command has no arguments or keywords.				
Defaults	This command had no default settings.				
Command Modes	Global Configuration				
Usage Guidelines					
	Authorization: admin				
Examples	The following example removes all configured communities. SCE (config) #no snmp-server community all SCE (config)#				
Related Commands	snmp-server community (on page 2-238)				

```
Cisco Service Control Engine (SCE) CLI Command Reference
```

no snmp-server host all

Removes all configured hosts.

no snmp-server host all

Syntax Description	This command has no arguments or keywords.					
Defaults	This command has no default settings.					
Command Modes	Global Configuration					
Usage Guidelines	Authorization: admin					
Examples	The following example removes all configured hosts. <i>SCE</i> (config)# no snmp-server host all <i>SCE</i> (config)#					
Related Commands	snmp-server host (on page 2-242)					

no sntp server all

Disables all SNTP uni-cast servers.

no sntp server all

Syntax Description	This command has no arguments or keywords.				
Defaults	This command has no default settings.				
Command Modes	Global Configuration				
Usage Guidelines					
	Authorization: admin				
Examples	The following example disables all SNTP uni-cast servers. <i>SCE</i> (config)# no sntp server all <i>SCE</i> (config)#				
Related Commands	sntp server (on page 2-244)				

no subscriber

	Removes a specified subscriber from the system. Use the 'all' form to remove all introduced subscribers.		
	no subscriber name subscriber-name		
	no subscriber all		
Syntax Description	<i>subscriber-name</i> The specific subscriber name to be removed from the system.		
Defaults	This command has no default settings.		
Command Modes	LineCard Interface Configuration		
Usage Guidelines			
	Authorization: admin		
Examples	The following example removes all subscriber.		
	SCE(config if)# no subscriber all SCE(config if)#		

no subscriber anonymous-group

Removes a specified anonymous subscriber group from the system. Use the 'all' form to remove all anonymous subscriber groups.

no subscriber anonymous-group name *group-name* **no subscriber anonymous-group all**

Syntax Description	group-name The anonymous subscriber group to be removed from the system.				
Defaults	This command has no default settings.				
Command Modes	LineCard Interface Configuration				
Usage Guidelines					
	Authorization: admin				
Examples	The following example removes all anonymous subscriber groups. <i>SCE</i> (config if)# no subscriber anonymous-group all <i>SCE</i> (config if)				

no subscriber mappings included-in

Use this command to remove all existing subscriber mappings from a specified TIR or IP range. **no subscriber mappings included-in TP-IP-range name** *TP-IP-range-name IP-range*

Syntax Description	<i>TP-IP-range-name</i> Meaningful name assigned to this traffic processor IP range				
	IP-range IP address and mask length defining the IP range				
Defaults	This command has no default settings.				
Command Modes	LineCard Interface Configuration				
Usage Guidelines					
	Authorization: admin				
Examples	The following example removes any existing subscriber mappings from the CTMS1 TIR. <i>SCE</i> (config if)# no subscriber mappings included-in TP-IP-range name CMTS1				

no timeout				
	Configures the Telnet server to work with no timeout. No matter how long there is no activity of the Telnet session, the system does not automatically disconnect the Telnet session.			
	no timeout			
Syntax Description	This command has no arguments or keywords.			
Defaults	This command has no default settings.			
Command Modes	Line Configuration Mode			
Usage Guidelines				
	Authorization: admin			
Examples	The following example disables the timeout.			
	SCE(config-line)#no timeout SCE(config-line)#			
Related Commands	timeout (on page 2-259)			

no tos-marking diffserv

Disables the TOS marking.

no tos-marking diffserv

Syntax Description	This command has no arguments or keywords.			
Defaults	Disabled			
Command Modes	LineCard Interface Configuration			
Usage Guidelines				
	Authorization: admin			
Examples	The following example disables TOS marking.			
	SCE(config if)#no tos-marking diffserv SCE(config if)#			
Related Commands	tos-marking mode (on page 2-260)			

ping

1 3			
	Pings the given host to test for connectivity. The ping program sends a test message (packet) to an address and then awaits a reply. Ping output can help you evaluate path-to-host reliability, delays over the path, and whether the host can be reached or is functioning.		
	ping host		
Syntax Description	<i>host</i> The host name or IP address of a remote station to ping.		
Defaults			
Command Modes	Privileged EXEC		
Usage Guidelines			
	Authorization: admin		
Examples	The following example pings the host 10.1.1.201.		
	<i>SCE</i> #ping 10.1.1.201 pinging 10.1.1.201 PING 10.1.1.201: 56 data bytes 64 bytes from host (10.1.1.201): icmp_seq=0. time=0. ms 64 bytes from host (10.1.1.201): icmp_seq=1. time=0. ms 64 bytes from host (10.1.1.201): icmp_seq=2. time=0. ms 64 bytes from host (10.1.1.201): icmp_seq=3. time=0. ms 10.1.1.201 PING Statistics 4 packets transmitted, 4 packets received, 0% packet loss round-trip (ms) min/avg/max = 0/0/0 <i>SCE</i> #		

pqi install file		
	Installs the minutes	specified <i>pqi</i> file using the installation options specified (if any). This may take up to 5
	pqi install	file filename [options options]
Syntax Description	filename	The filename of the <i>pqi</i> application file to be installed.
	options	The desired installation options. Use the show pqi file command to display the available installation options.
Defaults Command Modes Usage Guidelines	LineCard In	nterface Configuration
	Authorizati	on: admin
Examples	The following example installs the Subscriber Manager anr10015.pqi file. No options are specified.	
	SCE (confi	ig if)# pqi install file anr10015.pqi
Related Commands	show pqi fi	<i>le</i> (on page 2-201)

pqi rollback file				
	Reverses an upgrade of the specified pqi file. This may take up to 5 minutes			
	pqi rollback file filename			
Syntax Description	filename	The filename of the <i>pqi</i> application file to be rolled-back. It must be the <i>pqi</i> file that was last upgraded.		
Defaults				
Command Modes	LineCard Interface Configuration			
Usage Guidelines	Always specify the last pqi file that was upgraded.			
	Authorizati	ion: admin		
Examples	The follow file.	ing example reverses the upgrade for the Subscriber Manager using the anr100155.pqi		
	SCE (confi	ig if)#pqi rollback file anr100155.pqi		

pqi uninstall fil	е		
	Uninstalls th	ne specified <i>pqi</i> file. This may take up to 5 minutes	
	pqi uninstall file filename		
Syntax Description	filename	The filename of the <i>pqi</i> application file to be uninstalled. It must be the <i>pqi</i> file that was installed last.	
Defaults			
Command Modes	LineCard In	terface Configuration	
Usage Guidelines	Always specify the last <i>pqi</i> file that was installed.		
	Always run the pqi uninstall command before installing a new pqi file to prevent accumulation of old files on the disk.		
	Authorizatio	on: admin	
Examples	The following	ng example uninstalls the Subscriber Manager anr10015.pqi file.	
	SCE(config	if)#pqi uninstall file anr10015.pqi	

Related Commands

pqi upgrade file

	Upgrades the application using the specified <i>pqi</i> file and the upgrade options specified (if any). This may take up to 5 minutes pqi upgrade file <i>filename</i> [<i>options options</i>]		
Syntax Description	filename	The filename of the <i>pqi</i> application file to be used for the upgrade.	
	options	The desired upgrade options. Use the show pqi file command to display the available options.	
Defaulte			
Delauits			
Command Modes	LineCard Interface Configuration		
Usage Guidelines A given <i>pqi</i> upgrade file is suitable for upgrading only from specific prev The upgrade procedure checks that an upgrade is possible from the curren The upgrade procedure will be stopped with an error message if the upgrade		<i>i</i> upgrade file is suitable for upgrading only from specific previously installed pqi files. le procedure checks that an upgrade is possible from the currently installed pqi file. le procedure will be stopped with an error message if the upgrade is not possible.	
	Authorizat	ion: admin	
Examples	The following example upgrades the Subscriber Manager using the anr100155.pqi file. No options are specified.		
	SCE (conf	ig if)# pqi upgrade file anr100155.pqi	
Related Commands	show pqi fi	<i>le</i> (on page 2-201)	

pwd

	Displays the current working directory.		
	pwd		
Syntax Description	This command has no arguments or keywords.		
Defaults	This command has no default settings.		
Command Modes	Privileged EXEC		
Usage Guidelines			
	Authorization: admin		
Examples	The following example shows the current working directory as tffs0.		
	SCE#pwd tffs0: SCE#		

queue			
	Sets the queue shaping. queue queue-number bandwidth bandwidth burst-size burstsize		
Syntax Description	<i>queue-number</i> Queue-number from 1–4, where 4 is the highest priority (fastest). 1=BE, 2, 3=AF, and 4=EF. BE is the best effort queue, that is the lowest priority. EF is the Expedited Forwarding queue, that is the highest priority forwarding. The AF (Assured Forwarding) queues are middle-priority, with 3 being a higher priority queue, that is, packets from queue 3 are transferred faster than those in queue 2.		
	<i>bandwidth</i> Bandwidth measured in kbps. 0 disables packet transmission from the queue. The maximum bandwidth is determined by the line rate. Bandwidth is set in resolutions of ~140Kbps, that is rounded to the nearest multiple of approximately 140 Kbps.		
	<i>burstsize</i> Burst size in bytes, from 0–16000000.		
Defaults	Bandwidth = 100000K (100 Mbps) Burst size = 8000 (8K bytes)		
Command Modes	FastEthernet Interface Configuration GigabitEthernet Interface Configuration		
Jsage Guidelines	This command is valid for the FastEthernet and the GigabitEthernet line interfaces only. Interface FastEthernet 0/# Interface GigabitEthernet 0/#		
	Authorization: admin		
Examples	The following sets queue shaping for queue 1.		
	SCE(config-if)#queue 2 bandwidth 20000 burstsize 1000 SCE(config-if)#		
Defaults Command Modes Jsage Guidelines	of ~140Kbps, that is rounded to the nearest multiple of approximately 140 Kbps. <i>burstsize</i> Burst size in bytes, from 0–16000000. Bandwidth = 100000K (100 Mbps) Burst size = 8000 (8K bytes) FastEthernet Interface Configuration GigabitEthernet Interface Configuration This command is valid for the FastEthernet and the GigabitEthernet line interfaces only. Interface FastEthernet 0/# Interface GigabitEthernet 0/# Authorization: admin The following sets queue shaping for queue 1. SCE(config-if)#queue 2 bandwidth 20000 burstsize 1000 SCE(config-if)#		

Related Commands

Cisco Service Control Engine (SCE) CLI Command Reference

Related Commands

RDR-formatter category-number

	Assigns a meaningful name to a category. This category name can then be used in any rdr-formatter command instead of the category number.			
	Use the no option of this command to disassociate the name from the category. The name will then not be recognized by any CLI commands.			
	RDR-formatter category-number [1-4] name category name			
	no RDR-formatter category-number [1-4] name category name			
Syntax Description	category name The user-defined name to be assigned to the category.			
Defaults	This command has no default settings.			
Command Modes	Global Configuration			
Usage Guidelines				
	Authorization: admin			
Examples	The following example assigns the name "prepaid" to Category 1.			
	SCE(config)#RDR-formatter category-number 1 name prepaid SCE(config)#			

RDR-formatter destination

Configures an RDR destination entry. Up to four entries can be configured. Each entry must have a different priority. The entry with the highest priority is used by the RDR formatter, provided that a connection with this destination can be established. This is where the RDR–formatter sends the events produced by the LineCard Interface.

RDR-formatter destination *ip-address* **port** *port-number* **[category** {**name** *category name* }| {**number** [*1-4*]}] [**priority** *priority-value*]

Syntax Description	ip-address	The destination IP address.
	port-number	The destination port number.
	category	(Optional) Use this parameter to assign a priority to a particular category for this destination.
	category nan	<i>ne</i> (Optional) User-defined name that identifies the category
	number	(Optional) Use this parameter to identify the category by number (1 to 4).
	priority-value	The priority of the destination. The priority value may be any number between 1 (lowest) to 100 (highest).

Defaults

Command Modes Global Configuration

Usage Guidelines The category may be identified by either name or number. Assign a high priority to send RDRs from the specified category to this destination. Assign a low priority if RDRs from the specified category should not be sent to this destination.

> For the first entry, if no priority is set, the highest priority is automatically assigned. For all subsequent entries, the priority must be explicitly defined. It is also possible to assign a different priority to each category for each destination. If no category is specified, the same priority is assigned to both categories for that destination.

Authorization: admin

Examples	The following examples illustrate the use of the RDR-formatter destination command:			
	EXAMPLE 1:			
	The following example configures an RDR-formatter destination with the default priority (highest) both categories.			
	SCE(config)#RDR-formatter destination 10.1.1.205 port 33000 SCE(config)#			
	EXAMPLE 2:			
	The following example configures an RDR-formatter destination with a different priority for each category. This configuration will send RDRs from category 2 to this destination, but not RDRs from category 1.			
	SCE(config)#RDR-formatter destination 10.1.1.206 port 34000 category number 1 priority 10 category number 2 priority 90 SCE(config)#			
Related Commands	no RDR-formatter destination all (on page 2-107)			

show RDR-formatter destination (on page 2-206)

RDR-formatter forwarding-mode

Defines the mode in which the RDR formatter will send the RDRs to the destinations.

RDR-formatter forwarding-mode mode

Syntax Description	max Description mode Settings: redundancy, multicast as described in the Valid Mode table in the Usage Guidelines.		
Defaults	mode is re	edundancy	
Command Modos	Global Co	nfiguration	
	Global Co	ingulation	
Usage Guidelines			
	Table 2-3	Valid Mode Settin	ngs
	redundar	ıCy	All RDRs are sent only to the primary (active) connection.
	multicas	it	All RDRs are sent to all destinations.
	Authorization: admin		
Examples	The following example sets the RDR formatter mode to "redundancy".		
	SCE(confi SCE(confi	g)# RDR-formatter for ig)#	warding-mode redundancy
Related Commands	show RDR-formatter forwarding-mode (on page 2-208)		

reload

Reboots the SCE Platform system. reload		
In order not to lose the current configuration, use the copy running-config-all startup-config-all command before using the reload command.		
This command has no arguments or keywords.		
This command has no default settings.		
Privileged EXEC		
Authorization: admin		
The following example shows backing up of the configuration and performing a system reboot. SCE#copy running-config-all startup-config-all SCE#reload Are you sure? Y The system is about to reboot, this will end your CLI session		

reload shutdown

Shuts down the SCE Platform system, preparing it for being turned off.

reload shutdown

Syntax Description	This command has no arguments or keywords.		
Defaults			
Command Modes	Privileged EXEC		
Usage Guidelines	Use this command to shut down the SCE Platform system in an orderly manner, before turning it off. After issuing this command, the only way to revive the SCE Platform from its power-down state is to turn it off, then back on.		
	This command can only be issued from the serial CLI console port. When issued during a telnet CLI session, an error message is returned and the command is ignored. This is done to prevent the possibility of shutting it down from a remote location, from which it is not possible to power back up.		
	Authorization: admin		
Examples	The following example shows the shutdown process. SCE#reload shutdown You are about to shut down the system. The only way to resume system operation after this is to cycle the power off, and then back on. Continue?		
	Y IT IS NOW SAFE TO TURN THE POWER OFF.		

rename

	Changes the file name to the specified name.		
	rename existing-file-name new-file-name		
Syntax Description	<i>existing-file-name</i> The original name of the file.		
	<i>new-file-name</i> The new name of the file.		
Defaults			
Command Modes	Privileged EXEC		
Usage Guidelines			
	Authorization: admin		
Examples	The following example changes the name of file test1.pkg to test3.pkg.		
	SCE#rename test1.pkg test3.pkg SCE#		
Related Commands			

rmdir

	Removes an empty directory.	
	To remove a directory that is not empty, use the delete command with the recursive switch.	
	rmdir directory-name	
Syntax Description	directory-name The name of the directory to be deleted.	
Defaults		
Command Modes	Privileged EXEC	
Usage Guidelines	You can only remove an empty directory.	
	Authorization: admin	
Examples	The following example deletes the code directory.	
	SCE#rmdir code	
	SCE#	

scm apply file

	Applies an scm configuration file.
	scm apply file file-name
Syntax Description	file-name Name of the file to be applied.
Defaults	This command has no default settings.
Command Modes	LineCard Interface Configuration
Usage Guidelines	<i>scm</i> configuration files are specific to the current application installed. Refer to the relevant application documentation for the definition of file format and content. Authorization: admin
Examples	The following example applies a <i>scm</i> configuration file that disables TOS marking. <i>SCE</i> (config if) #scm apply file /tffs0/xmlFile.xml applying configuration state <i>SCE</i> (config if) #

script capture Begins the recording of a script. It tracks all commands typed until the script stop command is used. Use this command to capture a sequence of repeated commands into a file for the purpose of executing the commands again. Use the script stop command to stop capturing the script. script capture *script-file-name* Syntax Description script-file-name The name of the output file where the script is stored. Defaults Privileged EXEC Command Modes **Usage Guidelines** Authorization: admin The following example shows the script capture for the script1.txt. Examples SCE#script capture script1.txt SCE#cd log SCE#cd.. SCE#pwd SCE#script stop **Related Commands** script stop (on page 2-135)

Cisco Service Control Engine (SCE) CLI Command Reference

script print

Displays a script file. script print script-file-name	
script-file-name The name of the file containing the script.	
Privileged EXEC	
Authorization: admin	
The following example prints the commands captured in script1.txt.	
SCE#script print script1.txt	
cd	
pwd script stop	
SCE#	
script capture (on page 2-132)	

script run			
	Runs a script. The halt parameter causes the command to break script on errors.		
	<pre>script run script-file-name [halt]</pre>		
Syntax Description	script-file-name The name of the file containing the script.		
	halt Stops the script running if one of the commands results in an error.		
Defaults			
Command Modes	Privileged EXEC		
Usage Guidelines	Use this command to run a script that you have previously created using the script ca command.	ıpture	
	Authorization: admin		
Examples	The following example runs the script named script1.txt.		
	SCE#script run script1.txt cd log cd pwd tffs0: script stop		
	SCE#		
Related Commands	script capture (on page 2-132)		

Cisco Service Control Engine (SCE) CLI Command Reference

script stop

Stops script capture. Used in conjunction with the **script capture** command, it marks the end of a script being recorded.

script stop

Syntax Description

This command has no arguments or keywords.

Defaults

Command Modes Privileged EXEC

Usage Guidelines

Authorization: admin

Examples

The following example stops the capturing of a script.

SCE#script capture script1.txt SCE#cd log SCE#cd .. SCE#pwd SCE#script stop

SCE#

Related Commands *script capture* (on page 2-132)

[no] service password encryption

Enables password encryption, so that the password remains secret when the configuration file is displayed. Use the [**no**] form of this command to disable password encryption.

Default Disabled (no encryption)

Authorization admin

Mode Global Configuration

USAGE GUIDELINES

• Passwords that were configured in an encrypted format are not deciphered when password encryption is disabled.

EXAMPLE:

The following example shows the effect of enabling password encryption.

SCE#configure

SCE(config)#enable password abcd

SCE(config)#exit

SCE#more running-config

#This is a general configuration file (running-config).

#Created on 10:20:57 ISR TUE July 3 2001

•••

enable password level 100 "abcd"

•••

SCE#configure

SCE(config)#service password-encryption

SCE(config)#exit

SCE#more running-config

#This is a general configuration file (running-config).

#Created on 10:21:12 ISR TUE July 3 2001

•••

service password-encryption

enable password level 10 5 "e2fc714c4727ee9395f324cd2e7f331f"

• • •

SCE#

service RDR-formatter

Enables/disables the RDR-formatter. The RDR-formatter is the element that formats the reports of events produced by the LineCard and sends them to an external data collector.

Use the **no** keyword of this command to disable the RDR-formatter.

service RDR-formatter

no service RDR-formatter

service telnetd

Enables/disables Telnet daemon. Use the **no** form of this command to disable the daemon preventing new users from accessing the SCE Platform via Telnet.

service telnetd

no service telnetd

Syntax Description	This command has no arguments or keywords,	
Defaults	Telnet daemon enabled	
Defaults		
Command Modes	Global Configuration	
Usage Guidelines		
	Authorization: admin	
Examples	The following examples illustrate the use of the service telnetd command:	
	EXAMPLE 1:	
	The following example enables the Telnet daemon.	
	SCE(config)#service telnetd SCE(config)#	
	EXAMPLE 2:	
	The following example disables the Telnet daemon.	
	SCE(config)#no service telnetd SCE(config)#	

setup

Invokes the setup utility, which is a dialog, or series of questions, that guides the user through the basic configuration process. This utility runs automatically upon initial connection to the local terminal. The utility may also be invoked explicitly to make changes to the system configuration.

Following is a brief list of the parameters configured via the setup command:

- · Host ID parameters: IP address, subnet mask, and hostname
- · Passwords: admin password, password encryption

The root password can be configured upon initial system configuration and when accessed from the root user.

- Time settings: time zone, offset from UTC, local time and date
- SNTP configuration: multicast client, unicast server, unicast query interval
- Domain Name Server configuration: default domain name and IP address (up to 3)
- RDR-formatter destination: IP address and TCP port number
- Access Control Lists: up to 100 lists, with 20 IP addresses in each list, each entry can be designated as permitted or denied.

Create ACLs for IP access, Telnet access, SNMP GET community access, and SNMP SET community access as needed:

• SNMP configuration:

Define the following:

- GET community names (up to 20)
- SET community names (up to 20)
- trap managers (up to 20): IP address, community string, version
- name of system manager
- Topology configuration:

Define the following:

- connection mode
- administrative status after abnormal reboot
- SCE 1000 Platform:
 - link-bypass mode when operational
 - redundancy
 - link-bypass mode when not operational
- SCE 2000 Platform:
 - deployment type
 - physically-connected-link index
 - priority

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• on-failure link behavior

For a complete description of the command, see the SCE Platform Installation and Configuration Guide.

setup

Syntax Description The setup command does not include parameters in the usual sense of the word. However, the setup utility questions prompt for many global configuration parameters. Following is a table listing all parameters for which values may be requested by the setup dialog.

The table in the *Usage Guidelines* lists all the parameter values that are necessary to complete the initial configuration. It is recommended that you obtain all these values before beginning the setup.

Defaults

Command Modes Privileged EXEC

Usage Guidelines

Parameter	Definition
IP address	IP address of the SCE Platform.
subnet mask	Subnet mask of the SCE Platform.
default gateway	Default gateway.
hostname	Character string used to identify the SCE Platform
admin password	Admin level password.
	Character string from 4-100 characters beginning with an alpha character.
root password	Root level password.
	Character string from 4-100 characters beginning with an alpha character.
password encryption status	Enable or disable password encryption?
Time Settings	
time zone name and offset	Standard time zone abbreviation and minutes offset from UTC.
local time and date	Current local time and date. Use the format:
	00:00:00 1 January 2002
SNTP Configuration	
broadcast client status	Set the status of the SNTP broadcast client.
	If enabled, the SCE will synchronize its local time with updates received from SNTP broadcast servers.
unicast query interval	Interval in seconds between unicast requests for update (64 - 1024)
	Cisco Service Control Engine (SCE) CLI Command Reference

Table 2-4 Setup Command Parameters

Parameter	Definition
unicast server IP address	IP address of the SNTP unicast server.
DNS Configuration	
DNS lookup status	Enable or disable IP DNS-based hostname translation.
default domain name	Default domain name to be used for completing unqualified host names
IP address	IP address of domain name server. (maximum of 3 servers)
RDR Formatter Destination	Configuration
IP address	IP address of the RDR-formatter destination
TCP port number	TCP port number of the RDR-formatter destination
Access Control Lists	
Access Control List number	How many ACLs will be necessary? What IP addresses will be permitted/denied access for each management interface? You may want ACLs for the following:
	• Any IP access
	• Telnet access
	• SNMP GET access
	• SNMP SET access
list entries (maximum 20 per list)	IP address, and whether permitted or denied access.
IP access ACL	ID number of the ACL controlling IP access.
telnet ACL	ID number of the ACL controlling telnet access.
SNMP Configuration	
SNMP agent status	Enable or disable SNMP management.
GET community names	Community strings to allow GET access and associated ACLs (maximum 20).
SET community names	Community strings to allow SET access and associated ACLs (maximum 20).
trap managers (maximum 20)	Trap manager IP address, community string, and SNMP version.
Authentication Failure trap status	Sets the status of the Authentication Failure traps. (See Configuring Traps.)
enterprise traps status	Sets the status of the enterprise traps. (See Configuring Traps.)
system administrator	Name of the system administrator.
Topology Configuration (Bo	oth Platforms)
connection mode	Is the SCE Platform installed in bump-in-the-wire topology (inline) or out of line using splitter or switch (receive-only)?
Admin status of the SCE Platform after abnormal boot	After a reboot due to a failure, should the SCE Platform remain in a Failure status or move to operational status provided no other problem was detected?
Topology Configuration (SC	CE 1000)

Cisco Service Control Engine (SCE) CLI Command Reference
Parameter	Definition	
link bypass mode on operational status	When the SCE 1000 is operational, should it bypass trafific or not?	
redundant SCE 1000 platform?	Is there a redundant SCE 1000 installed as a backup?	
link bypass mode on non- operational status	When the SCE 1000 is not operational, should it bypass traffic or cut it off?	
Topology Configuration (SCE 2000)		
type of deployment	Is this a cascade topology, with two SCE Platforms connected via the cascade ports? Or is this a single platform topology?	
physically connected link (cascade topology only)	In a cascade deployment this parameter sets the index for the link that this SCE 2000 is deployed on. The options for the SCE 2000 are link-0 or link-1.	
	In a single-SCE 2000 Platform deployment this parameter is not relevant since one SCE 2000 is deployed on both links. In this case the link connected to port1-port2 is by default link-0 and the link connected to port3-port4 is by default link-1.	
priority (cascade topology only)	If this is a cascaded topology, is this SCE 2000 the primary or secondary SCE 2000?	
on-failure behavior (inline connection mode only)	If this SCE 2000 is deployed inline, should the failure behavior be bypass or cutoff of the link?	

Authorization: admin

The following example runs the setup utility.

SCE#setup

--- System Configuration Dialog ---

At any point you may enter a question mark '?' followed by 'Enter' for help. Use ctrl-C to abort configuration dialog at any prompt. Use ctrl-Z to jump to the end of the configuration dialog at any prompt. Default settings are in square brackets '[]'.

Would you like to continue with the System Configuration Dialog? [yes/no]: \mathbf{y}

Related Commands

Examples

show access-lists

Shows all access-lists or a specific access list.

show access-lists [number]

Syntax Description	<i>number</i> Number of the access list to show
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example displays the configuration of access-list 1. SCE#show access-lists 1 Standard IP access list 1 Permit 10.1.1.0, wildcard bits 0.0.0.255 deny any SCE#
Related Commands	access-list (on page 2-4)

Cisco Service Control Engine (SCE) CLI Command Reference

show blink

Displays the blinking status of a slot. A slot blinks after it receives a blink command. **show blink slot** *slot-number*

Syntax Description *slot-number* The number of the identified slot. Enter a value of 0.

Defaults

Command Modes Privileged EXEC

Usage Guidelines

Authorization: admin

Examples The following example shows the blink status of slot 0.

SCE#show blink slot 0 Slot 0 blink status: off

SCE#

Related Commands *blink* (on page 2-17)

show calendar

Displays the time maintained by the real-time system calendar clock. **show calendar**

Syntax Description	This command has no arguments or keywords.	
Defaults		
Command Modes	Privileged EXEC	
Usage Guidelines		
	Authorization: admin	
Examples	The following example shows the current system calendar. SCE#show calendar 12:50:03 UTC MON November 13 2001 SCE#	
Related Commands	calendar set (on page 2-20)	

show clock

Displays the time maintained by the system clock. **show clock**

Syntax Description

This command has no arguments or keywords.

Defaults

Command Modes Privileged EXEC

Usage Guidelines

Authorization: admin

Examples The following example shows the current system clock.

SCE#show clock 12:50:03 UTC MON November 13 2001

SCE#

Related Commands clock set (on page 2-31)

show failure-recovery operation-mode

Displays the operation mode to apply after boot resulted from failure.

show failure-recovery operation-mode

Syntax Description	This command has no arguments or keywords.		
Defaults			
Command Modes	Privileged EXEC		
Usage Guidelines	Use the failure-recovery operation-mode command to configure this.		
	Authorization: admin		
Examples	The following example displays the failure recovery operation mode: SCE#show failure-recovery operation-mode System Operation mode on failure recovery is: operational SCE#		
Related Commands	<i>failure-recovery operation-mode</i> (on page 2-54)		

show hostname

Displays the currently configured hostname.

show hostname

Syntax Description	This command has no arguments or keywords.		
Defaults			
Command Modes	Privileged EXEC		
Usage Guidelines			
	Authorization: admin		
Examples	The following example shows that <i>SCE</i> is the current hostname. <i>SCE</i> #show hostname <i>SCE</i> <i>SCE</i> #		
Related Commands	hostname (on page 2-60)		

show hosts

Displays the default domain name, the address of the name server, and the content of the host table.

show hosts

Syntax Description	This command has no arguments or keywords.		
Defaults			
Command Modes	Privileged EXEC		
Usage Guidelines			
	Authorization: admin		
Examples	The following example shows the domain and hosts configured.		
	SCE#show hosts		
	Default domain is cisco.com		
	Name/address lookup uses domain service		
	Name servers are 10.1.1.60, 10.1.1.61		
	Host Address		
	PC85 10.1.1.61 SCE#		

show interface FastEthernet

Displays the details of a FastEthernet Interface.
The counters keyword displays the values of counters of a line FastEthernet interface.
The duplex keyword displays the configured duplex mode and the actual status of it.
The ip-address keyword displays the currently configured IP address and subnet mask of the Management FastEthernet Interface.
The speed keyword displays the configured speed mode and the actual status of it.
The queue keyword displays the values of counters of a queue in a line FastEthernet interface.
show interface FastEthernet <i>slot-number/interface-number</i> [counters [<i>direction</i>] duplex ip address speed queue <i>queue-number</i>]
slot-number The number of the identified slot. Enter a value of 0.
<i>interface-number</i> FastEthernet interface number 0, 1 - 4.
<i>direction</i> Optional direction specification, to show only counters of a specific direction. Use in or out .
queue-number Number of queue, in the range 0-3.
Privileged EXEC
Enter a value of 0 for the interface number when using the ip-address keyword.
Enter a value of 1 - 4 n the <i>interface-number</i> parameter for line ports 1 - 4 to show information on the line interfaces for the SCE 2000 4/8xFE platform only.
Authorization: admin
The following examples illustrate the use of the show interface FastEthernet command:
EXAMPLE 1:

SCE#show interface FastEthernet 0/0

ip address: 10.1.6.145
subnet mask: 255.255.0.0
Configured speed: auto, configured duplex: auto
AutoNegotiation is On, link is Up, actual speed: 100, actual duplex: half
SCE#
SCE#show interface FastEthernet 0/1
Configured speed: auto, configured duplex: auto
AutoNegotiation is On, link is Up, actual speed: 100Mb/s, actual duplex: full
Bandwidth: 100000 Kbps, Burst-size: 5000 bytes

SCE#

EXAMPLE 2:

The following example shows the FastEthernet interface counters.

SCE#show interface FastEthernet 0/1 counters

In total octets: 191520 In good unicast packets: 560 In good multicast packets: 0 In good broadcast packets: 0 In packets discarded: 0 In packets with CRC/Alignment error: 0 In undersized packets: 0 In oversized packets: 0 Out total octets: 0 Out unicast packets: 0 Out non unicast packets: 0 Out packets discarded: 0 SCE#

EXAMPLE 3:

The following example shows the FastEthernet interface duplex mode configuration and status.

SCE#show interface FastEthernet 0/1 duplex

Configured duplex: auto AutoNegotiation is On, link is Up, actual duplex: half SCE#

EXAMPLE 4:

The following example shows the configured IP address.

SCE#show interface FastEthernet 0/0 ip address

Ip address: 10.1.5.120 Subnet mask: 225.255.0.0 *SCE*#

EXAMPLE 5:

The following example shows the FastEthernet interface speed configuration and status.

SCE#show interface FastEthernet 0/1 speed Configured speed: auto AutoNegotiation is On, link is Up, actual speed: 100 SCE#

EXAMPLE 6:

The following example shows the FastEthernet interface queue number 3.

SCE#show interface FastEthernet 0/1 queue 3 Bandwidth: 100000 Kbps, Burst-size: 8000 bytes SCE#

Related Commands

duplex (on page 2-50)

interface FastEthernet (on page 2-61) *ip address* (on page 2-65) *queue* (on page 2-122) *speed* (on page 2-245)

show interface GigabitEthernet Displays the details of a GigabitEthernet Interface. **show interface GigabitEthernet** *slot-numberlinterface-number* Syntax Description *slot-number* The number of the identified slot. Enter a value of 0. interface-number GigabitEthernet interface number 1 - 2, or 1 - 4. Defaults **Command Modes** Privileged EXEC Enter a value of 1 - 2 n the *interface-number* parameter for line ports 1 - 2 to show information on **Usage Guidelines** the line interfaces for the SCE 1000 2xGBE platform. Enter a value of 1 - 4 n the *interface-number* parameter for line ports 1 - 4 to show information on the line interfaces for the SCE 2000 4xGBE platform. Authorization: admin The following example shows the GigabitEthernet details. Examples SCE#show interface GigabitEthernet0/1

show interface LineCard

Displays information for a specific LineCard Interface.

show interface LineCard *slot-number*

Syntax Description	<i>slot-number</i> The number of the identified slot. Enter a value of 0.		
Defaults			
Command Modes	Privileged EXEC		
Usage Guidelines			
	Authorization: user		
Examples	The following example shows that the LineCard Interface does not currently have an application assigned to it.		
	SCE#show interface linecard 0 No application is assigned to slot 0 Silent is off Shutdown is off		
	SCE#		
Related Commands	<i>interface LineCard</i> (on page 2-63)		

Cisco Service Control Engine (SCE) CLI Command Reference

show interface LineCard application

Displays the name of the application assigned to the LineCard Interface. **show interface LineCard** *slot-number* **application**

Syntax Description	<i>slot-number</i> The number of the identified slot. Enter a value of 0.		
Defaults			
Command Modes	Privileged EXEC		
Usage Guidelines			
	Authorization: admin		
Examples	The following example shows the current application.		
	SCE#show interface LineCard 0 application /tffs0/app/apricot.sli		
	SCE#		
Related Commands	<i>interface LineCard</i> (on page 2-63)		

show interface LineCard attack-detector

Displays the configuration of the specified attack detector. **show interface LineCard** *slot-number* **attack-detector** *attack-detector* [**default**|**all**]

Syntax Description	slot-numbe	<i>r</i> The number of the identified slot. Enter a value of 0.	
	attack-dete	ector The number of the specific attack detector to be displayed.	
	all	Displays the configuration of all existing attack detectors	
	default	Displays the default attack detector configuration.	
Defaults			
Command Modes	Privileged	EXEC	
Usage Guidelines	Use the all	keyword to display the configuration of all existing attack detectors.	
	Use the default keyword to display default attack detector configuration.		
	Authorizat	ion: admin	
Examples	The following examples illustrate the show interface LineCard attack-detector command:		
	EXAMPLE 1:		
	The follow	ing example displays the configuration of attack detector number 3.	
	SCE#shov	v interface LineCard 0 attack-detector 3	
	EXAMPLE	2:	
	The follow	ing example displays the configuration of the default attack detectors.	
	SCE#show interface LineCard 0 attack-detector default		
	EXAMPLE	3:	
	The follow	ing example displays the configuration of all existing attack detectors.	
	SCE#shov	v interface LineCard 0 attack-detector all	
Related Commands	attack-dete	ector (on page 2-8)	

show interface LineCard attack-filter

Displays the attack filtering configuration. show interface LineCard slot-number attack-filter [option]

Syntax Description	<i>slot-number</i> The number of the identified slot. Enter a value of 0.		
	option See Usage Guidelines for the list of options.		
Defaults			
Command Modes	Privileged EXEC		
Usage Guidelines	Following is a list of options that may be displayed:		
	• query IP address configured : displays the configured threshold values and action for the attack detector for a specified IP address		
	• query IP address counters : displays the current counters for the attack detector for all protocols and attack directions for a specified IP address		
	current-attacks: displays all currently handled attacks		
	dont-filter: displays all existing stopped attack filters		
	• force-filter: displays all existing forced attack filters		
	subscriber-notification ports: displays the list of subscriber-notification ports		
	Authorization: admin		
Examples	The following examples illustrate the use of the show interface LineCard attack-filter command:		
	EXAMPLE 1:		
	The following example displays the configuration of the attack detector for a specified IP address.		
	SCE#show interface LineCard 0 attack-filter query IP address 10.10.10.10 configured		
	EXAMPLE 2:		
	The following example displays all existing forced attack filters.		
	SCE#show interface LineCard 0 attack-filter force-filter		
	EXAMPLE 3:		
	The following example displays the subscriber notification ports.		
Cisco	Service Control Engine (SCE) CLI Command Reference		

SCE#show interface LineCard 0 attack-filter subscriber-notification ports

Related Commands attack-filter ("attack-filter (LineCard Interface Configuration)" on page 2-11)

Cisco Service Control Engine (SCE) CLI Command Reference

show interface LineCard connection-mode

Shows the LineCard Interface connection mode (inline or receive-only). show interface LineCard *slot-number* connection-mode

Syntax Description	<i>slot-number</i> The number of the identified slot. Enter a value of 0.		
Defaults			
Command Modes	Privileged EXEC		
Usage Guidelines			
	Authorization: admin		
Examples	The following example shows the LineCard connection mode configuration parameter value. SCE#show interface LineCard 0 connection-mode inline SCE#		
Related Commands	(SE2000)connection-mode ("connection-mode (SCE 2000 platform)" on page 2-40)		

show interface LineCard counters

Displays the LineCard Interface hardware counters.

show interface LineCard slot-number counters

Syntax Description	<i>slot-number</i> The number of the identified slot. Enter a value of 0.			
Defaults				
Command Modes	Privileged EXEC			
Usage Guidelines				
	Authorization: admin			
Examples	The following example shows the hardware counters for the LineCard Interface. SCE#show interface linecard 0 counters DP packets in: 100 DP packets out: 100 DP IP packets in: 90 DP Non-IP packets: 10 DP IP packets with CRC error: 0 DP IP packets with length error: 0 DP IP broadcast packets: 10 DP IP fragmented packets: 0 DP IP packets with TTL=0 error: 0 DP Non TCP/UDP packets: 10 DP TCP/UDP packets with CRC error: 0 FF counter #0: 0 FF counter #1: 0 FF counter #1: 0 FF counter #3: 0			

show interface linecard link mode

Displays the configured LineCard Interface link mode. show interface linecard *slot-number* link mode

Syntax Description	<i>slot-number</i> The number of the identified slot. Enter a value of 0.		
Defaults			
Command Modes	Privileged EXEC		
Usage Guidelines			
	Authorization: admin		
Examples	The following example shows the configured link mode for the LineCard Interface. <i>SCE</i> #show interface linecard 0 link mode <i>SCE</i> #		
Related Commands	<i>link mode</i> (on page 2-87)		

show interface LineCard link-bypass (SCE 1000 only)

Displays the current LineCard link-bypass mode, as well as the configured modes for boot- time, normal operation, and failure.

show interface LineCard slot-number link-bypass

Syntax Description	<i>slot-number</i> The number of the identified slot. Enter a value of 0.		
Defaults			
Command Modes	Privileged EXEC		
Usage Guidelines			
	Authorization: admin		
	The following example shows the current and configured bypass modes.		
Examples	SCE#show interface LineCard 0 link-bypass Link-Bypass configuration according to status: On-Boot : Bypass On-Operational: No-Bypass On-Failure : Bypass Current bypass state is: No-Bypass SCE#		

show interface LineCard physically-connected-links (SCE 2000 only)

Displays the link mapping for the LineCard Interface. show interface LineCard *slot-number* physically-connected-links

Syntax Description	<i>slot-number</i> The number of the identified slot. Enter a value of 0.		
Defaults			
Command Modes	Privileged EXEC		
Usage Guidelines			
	Authorization: admin		
Examples	The following example shows the link mapping for the LineCard Interface.		
	SCE#show interface LineCard 0 physically-connected-links SCE#		
Related Commands			

CLI	Commands
-----	----------

show interface LineCard silent

Displays the current LineCard Interface silent state. When the silent state is Off, the LineCard events reporting function is enabled.

show interface LineCard *slot-number* silent

Syntax Description	<i>slot-number</i> The number of the identified slot. Enter a value of 0.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows the LineCard Interface silent mode. SCE#show interface LineCard 0 silent Off SCE#
Related Commands	silent (on page 2-236)

show interface LineCard subscriber

Displays subscribers meeting one of the following specified criteria:

- Having a value of a subscriber property that is equal to, larger than, or smaller than a specified value
- Having a subscriber name that matches a specific prefix
- Having a subscriber name that matches a specific suffix

Use the "amount" form to display the number of subscribers meeting the criteria rather than listing actual subscriber names.

show interface LineCard *slot-number* **subscriber** [amount] [**prefix** *prefix*] [**suffix** *suffix*] [**property** *propertyname* **equals**|**greater-than**|**less-than** *property-val*]

Syntax Description The number of the identified slot. Enter a value of 0. *slot-number* The desired subscriber name prefix to match. prefix The desired subscriber name suffix to match. suffix propertyname The name of the subscriber property to match. property val The value of the specified subscriber property. Specify whether to search for values equal to, greater than, or less than this value. Defaults Privileged EXEC Command Modes **Usage Guidelines** Authorization: admin Following is an example that lists the number of subscribers with the prefix 'gold' in the Examples subscriber name. SCE#show interface linecard 0 subscriber amount prefix gold SCE#

show interface LineCard subscriber aging

Displays the subscriber aging for the specified type of subscriber (anonymous or introduced). show interface LineCard *slot-number* subscriber aging [anonymous|introduced]

Syntax Description	slot-number The number of the identified slot. Enter a value of 0.	
Defaults		
Command Modes	Privileged EXEC	
Usage Guidelines		
	Authorization: admin	
Examples	The following is an example of how to display the aging of introduced subscribers.	
	<i>SCE</i> #show interface linecard 0 subscriber aging introduced <i>SCE</i> #	



show interface LineCard subscriber anonymous

Displays the subscribers in a specified anonymous subscriber group. Use the "amount" form to display the number of subscribers in the group rather than a complete listing of members.

show interface LineCard slot-number subscriber anonymous [amount] [name group-name]

Syntax Description	slot-number The number of the identified slot. Enter a value of 0.		
	group-name The anonymous subscriber group.		
Defaults			
Command Modes	Privileged EXEC		
Usage Guidelines	If no group-name is specified, all anonymous subscribers in all groups are displayed.		
	Authorization: admin		
Examples	The following is an example of how to display the number of subscribers in the anonymous subscriber group anon1.		
	<i>SCE</i> #show interface linecard 0 subscriber anonymous amount name anon1 <i>SCE</i> #		

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show interface	LineCard subscriber anonymous-group		
	Displays the configuration of the specified anonymous subscriber group. Use the "all" form with no group name to display all existing anonymous subscriber groups.		
	show interface LineCard <i>slot-number</i> subscriber anonymous-group [name <i>group-name</i>] [all]		
Syntax Description	<i>slot-number</i> The number of the identified slot. Enter a value of 0.		
	group-name The anonymous subscriber group.		
Defaults			
Command Modes	Privileged EXEC		
Usage Guidelines			
	Authorization: admin		
Examples	The following is an example of how to display the anonymous subscriber groups.		
	SCE#show interface linecard 0 subscriber anonymous-group SCE#		
Related Commands	subscriber anonymous-group export csv-file (on page 2-248)		
	subscriber anonymous-group import csv-file (on page 2-249)		

show interface LineCard subscriber db counters

Displays following subscriber database counters:

- Current number of subscribers
- Current number of introduced subscribers
- Current number of anonymous subscribers
- Current number of active subscribers (with active traffic sessions)
- · Current number of subscribers with mappings
- Current number of IP mappings
- Current number of vlan mappings
- Max number of subscribers that can be introduced
- Max number of subscribers with mappings
- Max number of subscribers with mappings date / time
- Total aggregated number introduced
- Total number of aged subscribers
- Total number of pull events

Number of traffic sessions currently assigned to the default subscriber

show interface LineCard *slot-number* subscriber db counters

Syntax Description	<i>slot-number</i> The number of the identified slot. Enter a value of 0.		
Defaults			
Command Modes	Privileged EXEC		
Usage Guidelines			
	Authorization: admin		
Examples	The following example shows how to display the subscriber database counters:		
	SCE#show interface LineCard 0 subscriber db counters SCE#		

Related Commands

Cisco Service Control Engine (SCE) CLI Command Reference

show interface LineCard subscriber mapping

	Displays subscribers whose mapping meets one of the following specified criteria:		
	Is within a specified range of IP addressesIntersects a specified IP range		
	Matches a specified VLAN tag		
	Has no mapping		
	Use the "amount" form to display the number of subscribers meeting the mapping criteria rather than listing actual subscriber names.		
	show interface LineCard <i>slot-number</i> subscriber mapping [amount] [IP <i>iprange</i>] [intersecting IP <i>iprange</i>] [VLANid <i>vlanid</i>] [none]		
Syntax Description	<i>slot-number</i> The number of the identified slot. Enter a value of 0.		
	<i>iprange</i> Specified range of IP addresses.		
	vlanid Specified VLAN tag.		
Defaults			
Command Modes	Privileged EXEC		
Usage Guidelines			
	Authorization: admin		
Examples	The following is an example that lists the number of subscribers with no mapping.		
	SCE#show interface linecard 0 subscriber mapping amount none SCE#		

show interface LineCard subscriber name

Displays information about a specified subscriber. The following information can be displayed:

- Mappings
- OS counters (bandwidth and current number of flows)
- All values of subscriber properties
- All of the above

If no category is specified, a complete listing of property values, mappings and counters is displayed.

show interface LineCard slot-number subscriber name name [mappings] [counters]
[properties]

Syntax Description	slot-number	The number of the identified slot. Enter a value of 0.
	name	The subscriber name.
	mappings	Display subscriber mappings.
	counters	Display OS counters.
	properties	Display values of all subscriber properties.

Defaults

Command Modes Privileged EXEC

Usage Guidelines

Authorization: admin

 Examples
 The following is an example of how to list the OS counters for the specified subscriber.

 SCE#show interface linecard 0 subscriber name gold123 counters

 SCE#

show interface LineCard subscriber properties

Displays all existing subscriber templates.

show interface LineCard *slot-number* subscriber properties

Syntax Description	<i>slot-number</i> The number of the identified slot. Enter a value of 0.				
Defaults					
Command Modes	Privileged EXEC				
Usage Guidelines					
	Authorization: admin				
Examples	The following is an example of how to display the subscriber templates.				
	<i>SCE</i> #show interface linecard 0 subscriber templates <i>SCE</i> #				

show interface LineCard subscriber TP-mappings statistics

Displays the traffic processor mappings state.

show interface LineCard *slot-number* subscriber TP-mappings statistics

Syntax Description	<i>slot-number</i> The number of the identified slot. Enter a value of 0.					
Defaults						
Command Modes	Privileged EXEC					
Usage Guidelines						
	Authorization: admin					
Examples	The following is an example of how to display the traffic processor mappings . SCE#show interface linecard 0 subscriber TP-mappings statistics SCE#					
Related Commands	subscriber TP-mappings (on page 2-256)					

Cisco Service Control Engine (SCE) CLI Command Reference

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show interface LineCard subscriber TP-IP-range

Displays the configuration of a specified TIR.

show interface LineCard slot-number subscriber TP-IP-range TP-IP-range-name [all]

Syntax Description	<i>slot-number</i> The number of the identified slot. Enter a value of 0.					
	<i>TP-IP-range-name</i> Name of the TIR to be displayed.					
Defaults						
Command Modes	Privileged EXEC					
Usage Guidelines	Use the all keyword to display all existing TIR configurations.					
	Authorization: admin					
Examples	Following is an example of how to display all existing TIR configurations.					
	SCE#show interface linecard 0 subscriber TP-IP-range all SCE#					
Related Commands	subscriber TP-IP-range (on page 2-257)					

show interface LineCard subscriber mapping included-in TP-IP-range

Displays the existing subscriber mappings for a specified TIR or IP range.

show interface LineCard *slot-number* subscriber [amount] mapping included-in TP-IP-range [*TP-IP-range-name* | *IP*]

Syntax Description	<i>slot-number</i> The number of the identified slot. Enter a value of 0.						
	<i>TP-IP-range-name</i> Name of the TIR for which mappings should be displayed.						
	<i>IP</i> IP range for which mappings should be displayed.						
Defaults							
Command Modes	Privileged EXEC						
Usage Guidelines	Use the amount keyword to display the number of existing mappings only, rather than the mappings themselves.						
	Authorization: admin						
Examples	The following examples illustrate the show interface LineCard subscriber mapping included- in TP-IP-range command:						
	EXAMPLE 1:						
	Following is an example of how to display all existing mappings for TIR CMTS1.						
	SCE#show interface linecard 0 subscriber mapping included-in TP-IP-range CMTS1 SCE#						
	EXAMPLE 2:						
	Following is an example of how to display the number of existing mappings for TIR CMTS1.						
	<i>SCE</i> #show interface linecard 0 subscriber amount mapping included-in TP-IP-range CMTS1 <i>SCE</i> #						

Related Commandssubscriber TP-IP-range (on page 2-257)

Cisco Service Control Engine (SCE) CLI Command Reference

show interface LineCard tos-marking mode

Displays the current LineCard TOS marking status.

show interface LineCard slot-number tos-marking mode

Syntax Description	slot-number The number of the identified slot. Enter a value of 0.				
Defaults					
Command Modes	Privileged EXEC				
Usage Guidelines					
	Authorization: admin				
Examples	The following example shows that the tos marking mode is enabled:				
	SCE#show interface LineCard 0 tos-marking mode ToS marking mode on slot 0 is enabled				
	SCE#				
Related Commands	tos-marking mode (on page 2-260)				

show interface LineCard tos-marking table

Displays the current LineCard TOS marking table.

show interface LineCard *slot-number* tos-marking table

Syntax Description	<i>slot-number</i> The number of the identified slot. Enter a value of 0.							
Defaults								
Command Modes	Privileged EX	ΈC						
Usage Guidelines								
	Authorization: admin							
Examples	The following	g exampl	e shows	the ToS	marking	table:		
	SCE#show in	terface	LineCa	rd 0 tos-	markin	g table		
		BE	AF1	AF2	AF3	AF4	FE	
	green	0x0	0xa	0x12	0x1a	0x22	0x2e	
	yellow	0x0	0xc	0x14	0x1c	0x24	0x2e	
	red	0x0	0xe	0x16	0x1e	0x24	0x2e	
	SCE#							
Related Commands	tos-marking s	et-table-	entry (oi	n page 2-	262)			

Cisco Service Control Engine (SCE) CLI Command Reference
show interface LineCard traffic-counter

Displays the specified traffic counter.

show interface linecard *slot-number* traffic-counter *name* [all]

Syntax Description	slot-number	The number of the identified slot. Enter a value of 0.
	name	Name of the traffic counter to be displayed.
Defaults		
Deladits		
Command Modes	Privileged EX	XEC
Usage Guidelines	Use the all k	eyword to display all traffic counters.
	Authorization	n: admin
Examples	The followin	g example displays information for all existing traffic counters.
	SCE#show i Counter 'cnt' Counter 'cnt2 2 counters lis	nterface linecard 0 traffic-counter all value: 0 packets. Rules using it: None. 2' value: 1284 packets. Rules using it: Rule2. sted out of 32 available.
Related Commands	traffic-counte	<i>er</i> (on page 2-263)

show interface LineCard traffic-rule

Displays the specified traffic rule configuration. **show interface linecard** *slot-number* **traffic-rule** *name* **[all]**

Syntax Description	slot-number The number of the identified slot. Enter a value of 0.
	<i>name</i> Name of the traffic rule to be displayed.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	Use the all keyword to display all traffic counter rules.
	Authorization: admin
Examples	The following example displays information for the Rule1 traffic rule.
	SCE#show interface linecard 0 traffic-rule name Rule1
Related Commands	<i>traffic-rule</i> (on page 2-264)
Related Commands	SCE#show interface linecard 0 traffic-rule name Rule1 traffic-rule (on page 2-264)

show interface LineCard [MPLS|VLAN|L2TP|IP-tunnel]

Displays the tunnel configuration.

show interface LineCard slot-number [MPLS|VLAN|L2TP|IP-tunnel]

Syntax Description	<i>slot-number</i> The number of the identified slot. Enter a value of 0.		
Defaults			
Command Modes	Privileged EXEC		
Usage Guidelines			
	Authorization: admin		
Examples	The following example shows the IP tunnel configuration.		
	SCE#show interface LineCard 0 ip-tunnel tunnel mode: tunneling disable SCE#		
Related Commands	MPLS (on page 2-99) L2TP identify-by (on page 2-84) ip tunnel (on page 2-83) VLAN (on page 2-268)		

show interface LineCard vlan translation

Shows vlan translation configuration.

show interface LineCard *slot-number* vlan translation

Syntax Description	<i>slot-number</i> The number of the identified slot. Enter a value of 0.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows the vlan translation configuration.
	SCE#show interface LineCard 0 vlan translation vlan translation constant: increment 16
	SCE#
Related Commands	vlan translation (on page 2-269)

CLI Commands

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show ip acces	is-class
	Shows the access list defined for global IP access to the SCE Platform system. Only IP addresses permitted access according to this access list are allowed access to the system.
	show ip access-class
Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows the IP access class mapping.
	SCE#show ip access-class IP layer is using access-list # 1.
	SCE#
Related Commands	<i>ip access-class</i> (on page 2-64)

show ip advertising

Shows the status of IP advertising, the configured destination and the configured interval.

Use the [destination] and [interval] versions of the command to display only the configured destination or interval, respectively.

show ip advertising [destination|interval]

Syntax Description	destination	Displays IP advertising destination.
	interval	Displays the interval between ping commands
Defaults		
Command Modes	Privileged EX	XEC
Usage Guidelines	Use the form	show ip advertising destination to display the IP advertising destination.
	Use the form	show ip advertising interval to display the interval between ping commands.
	Authorization	n: admin
Examples	The followin	g example shows the IP advertising status and configuration.
	SCE#show i	p advertising
	IP advertisin	g is disabled
	IP advertisin	g interval is 853 seconds

Related Commands *ip advertising* (on page 2-66)

show ip default-gateway

Shows configured default gateway.

show ip default-gateway

Syntax Description	This command has no arguments or keywords.	
Defaults		
Command Modes	Privileged EXEC	
Usage Guidelines		
	Authorization: admin	
Examples	The following example displays the default gateway.	
	SCE#show ip default-gateway Default gateway: 10.1.1.1	
	SCE#	
Related Commands	<i>ip domain-lookup</i> (on page 2-69)	

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show ip rmi-adapter

Displays the status of the RMI adapter (enabled or disabled) and the configured port. **show ip rmi-adapter**

Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows the configuration of the RMI adapter. SCE#show ip rmi-adapter RMI server is ONLINE RMI server port is 1099
Related Commands	<i>ip rmi-adapter</i> (on page 2-75)

show ip route Shows the entire routing table and the destination of last resort (default-gateway). When using the prefix and mask parameters, it shows the routing entries from the subnet specified by the prefix and mask pair. show ip route [prefix mask] Syntax Description The prefix of the routing entries to be included. prefix Used to limit the search of routing entries. mask Defaults Privileged EXEC Command Modes Usage Guidelines Authorization: admin The following examples illustrate the use of the show ip route command: Examples EXAMPLE 1: The following example shows the default gateway. SCE#show ip route gateway of last resort is 10.1.1.1 SCE# EXAMPLE 2: The following example shows retrieval of the ip route. SCE#show ip route 10.1.60.0 255.255.255.0 prefix mask next hop ---|-----|-----| 10.1.60.0 | 255.255.255.0 | 10.1.1.5 SCE# **Related Commands** *ip route* (on page 2-77)

show ip rpc-adapter

Displays the status of the RPC adapter (enabled or disabled) and the configured port. **show ip rpc-adapter**

Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows the configuration of the RPC adapter. <i>SCE</i> #show ip rpc-adapter RPC Server is OFFLINE RPC Server port is 14374
Related Commands	<i>ip rpc-adapter</i> (on page 2-78)

Cisco Service Control Engine (SCE) CLI Command Reference

show ip ssh

Shows the status of the SSH sever, including current SSH sessions. **show ip ssh**

Syntax Description	This command has no arguments or keywords.		
Defaults			
Command Modes	Privileged EXEC		
Usage Guidelines			
	Authorization: admin		
Examples	The following example shows how to retrieve the current SSH status. <i>SCE</i> #show ip ssh		
Related Commands	ip ssh (on page 2-80)		

show management-agent

Shows Management agent status: enabled/disabled and access-list number used. **show management-agent** [*access-class/enabled*] [notifications [counters]]

Syntax Description	<i>selected-info</i> Type access-class to view only access class status, or enabled to view only the enabled/disabled status.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following examples illustrate the show management-agent command:
	EXAMPLE 1:
	The following example shows the agent status.
	SCE#show management-agent Management agent is enabled. Agent is active Management agent does not use any access-list. SCE#
	EXAMPLE 2:
	The following example displays whether access lists are in use for the Management agent.
	SCE#show management-agent access-class Management agent does not use any access-list. SCE#
	EXAMPLE 3:

The following example shows the Management agent is enabled.

Cisco Service Control Engine (SCE) CLI Command Reference

SCE#show management-agent enabled

Management agent is enabled. Agent is active SCE#

Related Commands

management-agent system (on page 2-95)

show management-agent notifications

Displays the status of notifications sent to the Management agent.

show management-agent notifications

Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example displays the default status for management agent notification. <i>SCE</i> #show management-agent notifications Default status of all notifications is ON <i>SCE</i> #
Related Commands	management-agent system (on page 2-95)

show management-agent notifications counters

Displays counters of notifications sent to the Management agent, that is, the number of notifications that were sent and the number that were dropped.

show management-agent notifications counters

Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example displays the counters for management agent notifications sent and dropped.
	SCE#show management-agent notifications counters
	Number of notifications sent: 1320
	Number of notifications dropped: 0 SCE#
Related Commands	management-agent system (on page 2-95)

show line vty

Shows the access list configured to the Telnet server that contains the list of addresses that have access to the system.

show line vty timeout|access-class in

Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows the access list configured for telnet lines. SCE#show line vty access-class in Telnet server is using access-list # 1. SCE #
Related Commands	<i>line vty</i> (on page 2-85)

Cisco Service Control Engine (SCE) CLI Command Reference

show line vty timeout

Shows the timeout configured to the Telnet sessions.

show line vty timeout

Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows the timeout configured for the telnet session: SCE #show line vty timeout Timeout is 30 minutes SCE #
Related Commands	<i>line vty</i> (on page 2-85)

show logger device User-File-Log

Displays the SCE Platform logger configuration status and maximum file size. show logger device User-File-Log

Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows the SCE Platform logger User-File-Log status and configuration. <i>SCE</i> #show logger device User-File-Log <i>SCE</i> User-File-Log status: Enabled <i>SCE</i> User-File-Log file size: 64000 <i>SCE</i> #
Related Commands	logger device User-File-Log (on page 2-90)

show logger device User-File-Log counters

Displays the SCE Platform logger counters.

show logger device User-File-Log counters

Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows the current SCE Platform User-File-Log counters.
	SCE#show logger device user-file-log counters Logger SCE User-File-Log counters: Total info messages: 73 Total warning messages: 44 Total error messages: 0 Total fatal messages: 0 SCE#
Related Commands	logger device User-File-Log (on page 2-90)

show logger device User-File-Log max-file-size

Displays the SCE Platform logger maximum file size.

show logger device User-File-Log max-file-size

Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows the SCE Platform logger User-File-Log max file size configuration. <i>SCE</i> #show logger device User-File-Log max-file-size <i>SCE</i> User-File-Log file size: 64000 <i>SCE</i> #
Related Commands	logger device User-File-Log max-file-size (on page 2-91)

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show logger device User-File-Log status

Displays the SCE Platform logger configuration status.

show logger device User-File-Log status

Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows the SCE Platform logger User-File-Log status.
	SCE#show logger device User-File-Log status SCE User-File-Log status: Enabled SCE#
Related Commands	<i>logger device User-File-Log</i> (on page 2-90)

show logger nv-counters

Shows the non-volatile counters for the specified type of log file (user log or debug log). **show logger** [**device**] **nv-counters**

Syntax Description	<i>device</i> The log device for which to display the counters (either user-file-log or debug-file-log .
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows the user log file non-volatile counters.
	SCE#show logger device user-file-log nv-counters SCE#
Related Commands	

show pqi file

Displays information, such as installation options, about the specified application file. **show pqi file** *filename* **info**

Syntax Description	<i>filename</i> The filename of the desired application file.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows how to display application file information. SCE#show pqi file myfile.txt info application: sm description: SCE 1000 sm target SCE : SCE 1000 module names: sm20001.pm0
Related Commands	pqi install file (on page 2-117)

show pqi last-installed

Displays the name of the last pqi file that was installed. **show pqi last-installed**

Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows how to display application file information. SCE#show pqi last-installed package name: pack1 package date: Tue Jun 10 17:27:55 GMT+00:00 2003 operation: Upgrade
Related Commands	pqi install file (on page 2-117)

Cisco Service Control Engine (SCE) CLI Command Reference

show RDR-formatter

Displays the RDR formatter configuration.

show RDR-formatter

Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows the configuration of the RDR formatter. SCE#show RDR-formatter Status: enabled Connection is: down Forwarding mode: redundancy Connection table: Collector Port Status Priority per Category:
	IP Address / Host-Name Category1 Category2

Related Commands

RDR-formatter destination (on page 2-124)

show RDR-formatter connection-status

Shows the current RDR formatter connection table and status (main connection status: up\down, forwarding mode, and connection/activity information for each destination).

show RDR-formatter connection-status

Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows the RDR-formatter connection status.
	SCE#show RDR-formatter connection-status Connection is: up Forwarding mode: redundancy Connection table:
	Collector Port Status Priority per Category: IP Address /
	10.1.1.205 33000 Up 100 primary 100 primary 10.1.1.206 33000 Down 60 10.12.12.12 33000 Up 40
	 SCE#

Related Commands

show RDR-formatter counters

Shows the RDR-formatter counters.

show RDR-formatter counters

Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows the RDR-formatter counters.
	SCE#show RDR-formatter counters
	RDR: read: 0, sent: 0, thrown: 0
	UM: read: 0, sent: 0, thrown: 0
	Logger: read: 0, sent: 0, thrown: 0
	Errors: thrown: 0
	Last time these counters were cleared: 14:05:57 UTC SUN February 23 2003 SCE#

Related Commands

show RDR-formatter destination

Shows the RDR-formatter destinations.

show RDR-formatter destination

Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows the RDR-formatter configured destinations.
	SCE#show RDR-formatter destination
	Destination: 10.1.1.205
	Port: 33000
	Destination: 10.1.1.200 Port: 33000
	Destination: 10.10.12.10
	Port: 33000
	SCE#
Related Commands	RDR-formatter destination (on page 2-124)

Cisco Service Control Engine (SCE) CLI Command Reference

show RDR-formatter enabled

Shows the RDR-formatter status (enabled/disabled).

show RDR-formatter enabled

Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows that the RDR formatter is enabled.
	SCE#show RDR-formatter enabled Status: enabled SCE#
Related Commands	

show RDR-formatter forwarding-mode

Shows the configured RDR-formatter forwarding-mode (redundancy/multicast).

show RDR-formatter forwarding-mode

Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows the RDR formatter forwarding-mode. <i>SCE</i> #show RDR-formatter forwarding-mode Forwarding mode: redundancy <i>SCE</i> #
Related Commands	RDR-formatter forwarding-mode (on page 2-126)

show RDR-formatter statistics

Shows the current RDR formatter statistics.

show RDR-formatter statistics

Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows the current RDR statistics.
	<pre>SCE#show RDR-formatter statistics Total: sent: 0 in-queue: 0 thrown: 0 rate: 0 RDRs per second max rate: 0 RDRs per second Destination: 10.1.1.205 Port: 33000 Status: down Active: no Sent: 0 Rate: 0 Max: 0 Last connection establishment: 14:05:57 UTC SUN February 23 2003 Destination: 10.1.1.206 Port: 33000 Status: down Active: no Sent: 0 Rate: 0 Max: 0 Last connection establishment: 14:05:57 UTC SUN February 23 2003 Destination: 10.10.12.10 Port: 33000 Status: down Active: no Sent: 0 Rate: 0 Max: 0 Last connection establishment: 14:05:57 UTC SUN February 23 2003 Destination: 10.10.12.10 Port: 33000 Status: down Active: no Sent: 0 Rate: 0 Max: 0 Last connection establishment: 14:05:57 UTC SUN February 23 2003 SCE#</pre>

Related Commands

show running-config

Shows the current configuration.

show running-config [all-data] more running-config [all-data]

Syntax Description	all data Displays defaults as well as non-default settings.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	The all data switch may to see sample usage for many CLI configuration commands.
	Authorization: admin
Examples	The following example shows the partial output of the more running-config command.

SCE#>more running-config all-data #This is a general configuration file (running-config). #Created on 16:48:11 UTC WED June 13 2001

cli-type 1 #version 1

service logger

no service password-encryption enable password level 10 0 "pcube" enable password level 15 0 "pcube" service RDR-formatter no RDR-formatter destination all RDR-formatter history-size 0 clock timezone UTC 0 ip domain-lookup no ip domain-name no ip name-server service telnetd

FastEthernet 0/0 ip address 10.1.5.120 255.255.0.0 speed auto duplex auto

exit ip default-gateway 10.1.1.1 no ip route all

line vty 0 4

no access-class in timeout 30 exit SCE#>

Related Commands

show scm last-applied

Displays the last scm configuration file that was applied.

show scm last-applied

Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows the last scm configuration file that was applied. SCE #show scm last-applied /tffs0/xmlFile.xml
Related Commands	scm apply file (on page 2-131)

show snmp

Displays the SNMP configuration and counters. **show snmp**

Syntax Description

This command has no arguments or keywords.

Defaults

Command Modes Privileged EXEC

Usage Guidelines

Authorization: admin

Examples

The following example shows the SNMP server configuration and status.

```
SCE#show snmp
SNMP server status: Enabled
Location: London_Office
Contact: Brenda
Authentication Trap Status: Enabled
Communities:
_____
Community: public, Access Authorization: RO, Access List
Index: 1
Trap managers:
_____
Trap host: 10.1.1.205, community: public, version: SNMPv2c
SNMP stats:
    29 SNMP packets input
    0 Bad SNMP version errors
    29 Unknown community name
     0 Illegal operation for community name supplied
     0 Encoding errors
     0 Number of requested variables
     0 Number of altered variables
     0 Get-request PDUs
     0 Get-next PDUs
     0 Set-request PDUs
    29 SNMP packets output
     0 Too big errors
     0 No such name errors
     0 Bad values errors
     0 General errors
     0 Response PDUs
    29 Trap PDUs
SCE#
```

Related Commands
2-215

show snmp community

Displays configured communities.

show snmp community

Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows the SNMP manager communities.
	SCE#show snmp community Community: public, Access Authorization: RO, Access List Index: 1 SCE#
Related Commands	snmp-server community (on page 2-238)

show snmp contact

Displays the configured MIB-2 variable sysContact.

show snmp contact

Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows the system contact. SCE#show snmp contact Contact: Brenda@mycompany.com SCE#
Related Commands	snmp-server contact (on page 2-239)

show snmp enabled

Displays the SNMP agent status (enabled/disabled).

show snmp enabled

Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows the SNMP server enabled status.
	SCE#show snmp enabled SNMP server status: Enabled SCE#
Related Commands	snmp-server (on page 2-237)

show snmp host

Displays the destination hosts for SNMP traps.

show snmp host

Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows the destination hosts for SNMP traps. SCE#show snmp host Trap host: 10.1.1.205, community: public, version: SNMPv2c SCE#
Related Commands	snmp-server host (on page 2-242)

show snmp location

Displays the configured MIB-2 variable sysLocation.

show snmp location

Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows the system location.
	SCE#show snmp location Location: London_Office SCE#
Related Commands	snmp-server location (on page 2-243)

show $\operatorname{snmp}\operatorname{MB}$

Displays MIB variables.

show snmp MIB mib variables

Syntax Description	mib	Name of MIB to display. Only a value of MIB-II is supported.
	variables	Name of group to display. Use one of the following values: AT, ICMP, interfaces, IP, SNMP, system, TCP or UDP.
Defaults		
Command Modes	Privileged l	EXEC
Usage Guidelines		
	Authorizati	on: admin
Examples	amples The following example shows the MIB-2 system group. SCE#show snmp MIB MIB-II system sysDescr.0 = CiSco Service Engineering, SW version: Control Card Version 1.30 build 1 version: SCE GE "RevE" sysObjectID.0 = 1.3.6.1.4.1.5655.1.2 sysUpTime.0 = 14 hours, 25 minutes, 59 seconds sysContact.0 = Brenda@mycompany.com sysLocation.0 = London_Office sysServices.0 = 2 SCE#	

show snmp traps

Displays the SNMP traps generation status (enabled/disabled **show snmp traps**

Syntax Description This command has no arguments or keywords. Defaults **Command Modes** Privileged EXEC Usage Guidelines Authorization: admin The following example shows the SNMP server traps status. Examples SCE#show snmp traps Authentication Trap Status: Enabled Enterprise Trap Status: Enabled SCE# Related Commands *snmp-server enable traps* ("[no | default] snmp-server enable traps [snmp [snmp trap name]] [enterprise [enterprise trap name]]" on page 2-240)

show sntp

Displays the SNTP configuration and update statistics.

show sntp

Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows statistics from the SNTP clients.
	SCE#show sntp SNTP broadcast client: disabled last update time: not available
	SNTP uni-cast client: enabled there is one server: 1: 128.182.58.100 last update time: Feb 10 2002, 14:06:41
	update interval: 100 seconds
	SCE#
Related Commands	sntp server (on page 2-244)

show startup-config

Shows the startup configuration file. Use this command to review the configuration used by the SCE Platform at boot time in comparison with the current configuration to make sure that you approve of all the differences before saving the configuration by using **copy running-config startup-config** command.

show startup-config more startup-config

Syntax Description	This command has no arguments or keywords.		
Defaults			
	Drivilaged EVEC		
Command Modes	Filvileged EXEC		
Usage Guidelines			
	Authorization: admin		
Examples	The following example shows a sample output.		
	SCE#more startup-config #Created on 20:17:46 UTC THU January 1 2001 #cli-type 1 #version 1 logger SCE User-File-Log max-file-size 20000 ip domain-name *pcube* ip name-server 10.1.1.1 interface FastEthernet 0/0 ip address 10.1.4.202 255.0.0.0 interface LineCard 0 silent SCE#		
Related Commands	copy running-config startup-config (on page 2-44)		
show system	operation-status		
	Displays the operation status of the system.		
	show system operation-status		

	This command has no arguments or keywords.	
Syntax Description		
Defaults		
Command Modes	Privileged EXEC	
Usage Guidelines		
	Authorization: admin	
Examples	The following example shows the system operation status:	
	SCE#show system operation-status System Operation status is Operational SCE#	

show system-uptime

Displays the length of time the system has been running since the last reboot.. **show system-uptime**

Syntax Description	This command has no arguments or keywords.		
Defaults			
Command Modes	Privileged EXEC		
Usage Guidelines			
	Authorization: admin		
Examples	The following example shows the system uptime for the SCE Platform.		
	SCE#show system-uptime SCE uptime is 21 minutes, 37 seconds SCE#		

show telnet sessions

Displays any active Telnet sessions.

show telnet sessions

Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows that there is one active Telnet session. SCE#show telnet sessions There is 1 active telnet session: Index Source ====================================
Related Commands	telnet (on page 2-258)

show telnet status

Displays the status of the telnet server daemon.

show telnet status

Syntax Description	This command has no arguments or keywords.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example shows that the telnet daemon is currently enabled.
	SCE#show telnet status Telnet daemon is enabled. SCE#
Related Commands	

show timezone

Displays the current time zone and daylight saving time configuration as configured by the user. **show timezone**

Syntax Description	This command has no arguments or keywords.			
Defaults				
Command Modes	Privileged EXEC			
Usage Guidelines				
	Authorization: admin			
Examples	The following example shows the time zone configured by the user. SCE#show timezone Time zone: ISR minutes offset from UTC: 120 SCE#			
Related Commands	clock timezone (on page 2-36)			

show tunnel mode

Displays the selected tunnel mode.

show tunnel mode

Syntax Description	This command has no arguments or keywords.		
Defaults			
Command Modes	Privileged EXEC		
Usage Guidelines			
	Authorization: admin		
Examples	The following example shows the selected tunnel mode. <i>SCE</i> #show tunnel mode tunnel mode: L2TP <i>SCE</i> #		
Related Commands	<i>ip tunnel</i> (on page 2-83)		

show version		
Displays the configuration information for the system including the hardware version, the software version, the application used, and other configuration information. show version		
Defaults		
Command Modes	Privileged EXEC	
Usage Guidelines		
	Authorization: admin	
Examples	The following example shows the current version information of the SCE Platform.	

```
SCE#show version
System version: Version 2.5.2 Build 240
Build time: Jan 11 2005, 07:34:47
Software version is: Version 2.5.2 Build 240
Hardware information is:
rx
              : 0x0075
dp
              : 0x1808
              : 0x1708
tx
ff
              : 0x0077
cls
              : 0x1721
cpld
              : 0x0025
Lic
              : 0x0176
rev
              : G001
              : 2.1.0
Bootrom
L2 cache
             : Samsung 0.5
lic type
             : MFEoptic mode
                                  :
Part number: 53AA-BXC1-AAAA
Revision: A02A
Software revision: G001
Serial number: 043P6982
Power Supply type: AC
SML Application information is:
Application file: /tffs0/temp.sli
Application name:
Application help:
Original source file:
H:\work\Emb\jrt\V2.5\sml\actions\drop\drop_basic_anyflow.san
Compilation date: Wed, September 22, 2004 at 21:25:21
Compiler version: SANc v2.50 Build 32 gcc_codelets=true built
on: Tue September 22 2004 09:51:57 AM.; SME plugin v1.1
Default capacity option used.
Logger status: Enabled
Platform: SCE 2000 - 4xFE
Management agent interface version: SCE Agent 2.5.1 Build 18
Software package file:
ftp://vk:vk@10.1.8.22/P:/EMB/LatestVersion/2.5.2/se1000.pkg
SCE2000 uptime is 21 minutes, 37 seconds
SCE#
```

show version all

Displays the complete version information as well as the running configuration for all components.

show version all

 Syntax Description
 This command has no arguments or keywords.

 Defaults
 Image Guidelines

 Visage Guidelines
 Privileged EXEC

 Authorization: admin
 Authorization: admin

 Examples
 The following example shows version and configuration information for all the system components.

```
SCE#show version all
System version: Version 2.5.2 Build 240
Build time: Jan 11 2005, 07:34:47
Software version is: Version 2.5.2 Build 240
Hardware information is:
rx
              : 0x0075
              : 0x1808
dp
tx
              : 0x1708
ff
             : 0x0077
              : 0x1721
cls
             : 0x0025
cpld
Lic
              : 0x0176
rev
              : G001
             : 2.1.0
Bootrom
L2 cache
              : Samsung 0.5
lic type
              : MFE
optic mode
              :
Part number: 53AA-BXC1-AAAA
Revision: A02A
Software revision: G001
Serial number: 043P6982
Power Supply type: AC
SML Application information is:
Application file: /tffs0/temp.sli
Application name:
Application help:
Original source file:
H:\work\Emb\jrt\V2.5\sml\actions\drop\drop_basic_anyflow.san
Compilation date: Wed, September 22, 2004 at 21:25:21
Compiler version: SANc v2.50 Build 32 gcc_codelets=true built
on: Tue September 22 2004 09:51:57 AM.; SME plugin v1.1
Default capacity option used.
Logger status: Enabled
Platform: SCE2000 - 4xFE
Management agent interface version: SCE Agent 2.5.1 Build 18
Software package file:
ftp://vk:vk@10.1.8.22/P:/EMB/LatestVersion/2.5.2/se1000.pkg
```

```
SCE2000 uptime is 21 minutes, 37 seconds SCE\#
```

```
Cisco Service Control Engine (SCE) CLI Command Reference
```

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show version software

Displays version information for the current software.

show version software

Syntax Description	This command has no arguments or keywords.		
Defaults			
Command Modes	Privileged EXEC		
Usage Guidelines			
	Authorization: admin		
Examples	The following example shows the current software version.		
	SCE#show version software Software version is: Version 2.5.2 Build 240 SCE#		
Related Commands			

silent

Disables the LineCard from reporting events. Use the [no] form of this command if you want the LineCard to send reports.

silent no silent

Syntax Description	This command has no arguments or keywords.		
Defaults	No silent		
Command Modes	LineCard Interface Configuration		
Usage Guidelines			
Examples	The following example changes the LineCard state to silent.		
	SCE(config if)#silent SCE(config if)#		

snmp-server

	Enables the SNMP agent. You can use any of the other SNMP-server commands to enable the SNMP agent.		
	Use the no form to disable the SNMP agent from responding to SNMP managers. All SNMP settings are saved and are restored when the SNMP agent is re-enabled.		
	snmp-server enable no snmp-server		
Syntax Description	This command has no arguments or keywords		
Defaults	disabled		
Command Modes	Global Configuration		
Usage Guidelines	You must define at least one community string in order to allow SNMP access. For complete information on community strings.		
	Authorization: admin		
Examples	The following example disables the SNMP server.		
	SCE(config)#no snmp-server SCE(config)#		
Related Commands	snmp-server community (on page 2-238)		

snmp-server community

Sets a community string.

The optional acl-number parameter states the access list number to restrict the managers that can use this community.

snmp-server community *community-string* [*read-option*] [*acl-number*] **no snmp-server community** *community-string* [*read-option*] [*acl-number*]

Syntax Description	<i>community-string</i> The SNMPv1 and SNMPv2c security string that identifies a community of managers that can access the SNMP server.		
	<i>read-option</i> Legal values are ro and rw . The default ro (read-only) option allows managers t view MIB variables. rw sets the variable to read-write.		
	<i>acl-number</i> Number of the access list that lists the managers who may access the SCE Platform via SNMP.		
Defaults	no SNMP access		
Command Modes	Global Configuration		
Usage Guidelines			
	Authorization: admin		
Examples	The following example configures an SNMP managers community that has read-only permissions for the SCE Platform MIB. Only SNMP managers in access list 1 can access the SCE Platform.		
	SCE(config)#snmp-server community public ro 1 SCE(config)#		
Related Commands			

snmp-server c	contact		
	Sets the MIB-2 variable system contact. Use the no form of this command to remove the contact setting.		
	snmp-server contact contact		
	no snmp-server contact contact		
Syntax Description	<i>contact</i> A string that identifies the system contact.		
Defaults			
Command Modes	Global Configuration		
Usage Guidelines			
	Authorization: admin		
Examples	The following example configures the system contact.		
	<pre>SCE(config)#snmp-server contact Brenda@MyCompany.com SCE(config)#</pre>		
Related Commands			

snmp-server enable traps

Enables/disables SNMP traps (only authentication-failure traps and enterprise traps can be controlled using this command). Use the [**default**] form of this command to reset SNMP traps to the default status.

snmp-server enable traps [snmp [snmp trap name]] [enterprise
[enterprise trap name]]

no snmp-server enable traps [snmp [snmp trap name]] [enterprise
[enterprise trap name]]

default snmp-server enable traps [snmp [snmp trap name]]
[enterprise [enterprise trap name]]

Syntax Description	<i>snmp trap name</i> Optional parameter used with the snmp parameter to control a sp snmp trap.			
	Setting = $Authentication$			
	<i>enterprise trap name</i> Optional parameter used with the enterprise parameter to control a specific enterprise trap.			
		Settings = chassis, link-bypass, logger, operational- status, RDR-formatter, sntp, system-reset, telnet		
Defaults	snmp traps: disabled			
	enterprise traps: enable	ed		
Command Modes	Global Configuration			
Usage Guidelines	There are two classes of	of SNMP traps that are controlled by this command:		
	• snmp traps			
	• enterprise traps			
	The options snmp and enterprise are parameters specifying the class of traps that are to be enabled/disabled by this command. Each class, or type, is composed of specific traps. Use these parameters as follows:			
	• To enable/disable all traps of one type: Specify only snmp or enterprise.			
	• To enable/disable only one specific trap: Specify snmp or enterprise with the additional <i>trap name</i> parameter naming the desired trap.			
	• To enable/disable all traps: Do not specify either snmp or enterprise.			
	Since at this time, the only summer type tran is the authentication tran the group and			

Since, at this time, the only snmp type trap is the authentication trap, the snmp and authentication parameters are currently redundant.

Cisco Service Control Engine (SCE) CLI Command Reference

Authorization: admin

Examples

The following example configures the SNMP server to send traps.

SCE(config)#snmp-server enable traps
SCE(config)#

snmp-server host

	Sets destination hosts for SNMP traps.			
	snmp-server host address [traps] [version version] community-string			
	no snmp-server host address [traps] [version version] community-string			
Syntax Description	address The IP address of the SNMP server host.			
	traps Optional switch, does not influence command functionality.			
	<i>version</i> Version of the SCE Platform software running in the system. Can be set to 1 or 2c.			
	<i>community-string</i> The SNMPv1 and SNMPv2c security string that identifies a community of managers that are able to access the SNMP server.			
Defaults	No hosts			
Command Modes	Global Configuration			
Usage Guidelines	If no communities are specified by the snmp-server community command, the community string specified by this command is used by the SCE Platform, as if an snmp-server community community-string ro was given.			
	Authorization: admin			
Examples	The following example adds a host destination for SNMP traps.			
	SCE(config)#snmp-server host 10.1.1.205 version 2c public SCE(config)#			
Related Commands	no snmp-server host all (on page 2-109)			

snmp-server location

Gives a name to the SCE Platform location, setting the MIB-2 variable sysLocation. Use the **no** form of this command to remove the location setting.

snmp-server location location

no snmp-server location

Syntax Description	<i>location</i> A string that specifies the system location.
Defaults	no location
Command Modes	Global Configuration
Usage Guidelines	Authorization: admin
Examples	The following example configures the system location. SCE(config)#snmp-server location London_Office SCE(config)#

sntp server

Enables the SNTP uni-cast client to query the specified SNTP server. Use the **no** form of this command to disable the SNTP uni-cast server.

sntp server {address | hostname }
no sntp server

Syntax Description	address	The IP address of the SNTP server.	
	hostname	The hostname of the SNTP server.	
Defaults	SNTP uni-cast server is disabled		
Command Modes	Global Configuration		
Usage Guidelines	Authorization: admin		
Examples	The followi	ng example enables an SNTP server at a specified IP address.	
	SCE(config SCE(config	g)#sntp server 128.182.58.100 g)#	
Related Commands	no sntp serv	ver all (on page $2-110$)	

[no] sntp broadcast client

Enables the SNTP multicast client to accept SNTP broadcasts from any SNTP server. Use the **[no]** form of this command to disable the SNTP multicast client.

Default disabled

Authorization admin

Mode Global Configuration

EXAMPLE:

The following example enables the SNTP multicast client.

SCE(config)#sntp broadcast client

SCE(config)#

sntp update-interval interval

Defines the interval (in seconds) between SNTP uni-cast update queries.

Default 900

Authorization admin

Mode Global Configuration

PARAMETERS

interval The interval between queries in seconds.

EXAMPLE:

The following example sets the SNTP update interval for 100 seconds.

SCE(config)# sntp update-interval 100

SCE(config)#

speed

Configures the speed of the FastEthernet Interface to either 10 Mbps or 100 Mbps. Auto means auto-negotiation (do not force speed on the link).

speed speed no speed

 Syntax Description
 speed
 The speed in Mbps or auto-negotiation. Can be set to 10, 100 or auto.

 Defaults
 Auto

Cisco Service Control Engine (SCE) CLI Command Reference

CLI Comman	ds
	FastEthernet Interface Configuration
Command Modes Usage Guidelines	Changing this configuration takes effect only if the duplex mode is not configured to auto .
	Authorization: admin
Examples	The following example configures a FastEthernet port to 100 Mbps speed. SCE (config if)# speed 100 SCE (config if)#

Related Commands

Cisco Service Control Engine (SCE) CLI Command Reference

e specified type of subscribers (anonymous or hen aging is enabled. ed [timeout aging-time] uced
hen aging is enabled. ed [timeout aging-time] uced
ed [timeout aging-time] luced
ibers
anonymous subscribers, since this is the easiest way to have logged-out of the network are removed from the ng resources. Aging time can be configured individually mous subscribers.
er aging for anonymous subscribers with a timeout period
be

subscriber anonymous-group export csv-file

Exports anonymous groups to the specified csv file.

subscriber anonymous-group export csv-file *filename*

Syntax Description	<i>filename</i> Name of the csv file to which the anonymous groups information is to be exported.
Defaults	This command has no default settings.
Command Modes	LineCard Interface Configuration
Usage Guidelines	
	Authorization: admin
Examples	The following example exports anonymous groups information to the specified file
	SCE(config if)# subscriber anonymous-group export csv-file s_g_0507.csv SCE(config if)#

subscriber anonymous-group import csv-file

Creates anonymous groups by importing anonymous subscribers from the specified csv file.

 ${\bf subscriber\ anonymous-group\ import\ csv-file\ filename}$

Syntax Description	<i>filename</i> Name of the <i>csv</i> file containing the anonymous groups information.
Defaults	This command has no default settings.
Command Modes	LineCard Interface Configuration
Usage Guidelines	Anonymous Group <i>csv</i> files have a fixed format. All lines have the same structure, as described below:
	Anonymous-group-name, IP-range [, subscriber-template-number].
	If no subscriber-template-number is specified, then the anonymous subscribers of that group will use the default template (#0), which cannot be changed by template import operations.
	Following is an example of an anonymous group <i>csv</i> file:
	group1, 10.1.0.0/16, 2 group2, 176.23.34.0/24, 3 group3, 10.2.0.0/16
	Authorization: admin
Examples	The following example imports subscriber from the file <i>subscribers_groups.csv</i> .
	<i>SCE</i> (config if)# subscriber anonymous-group import csv-file subscribers_groups.csv <i>SCE</i> (config if)#

subscriber export csv-file

Exports subscribers to the specified csv file. Subscriber csv files are application-specific. Refer to the relevant application documentation for the definition of the file format.

subscriber export csv-file *filename*

Syntax Description	<i>filename</i> Name of the <i>csv</i> file to which the subscriber information is to be exported.
Defaults	This command has no default settings.
Command Modes	LineCard Interface Configuration
Usage Guidelines	Subscriber <i>csv</i> files are application-specific. Refer to the relevant application documentation for the definition of the file format. Authorization: admin
Examples	The following example exports subscribers to the specified file. SCE(config if)# subscriber export csv-file gold_subscribers_04072003.csv SCE(config if)#
subscriber import csv-file

Imports subscribers from the specified csv file.

subscriber import csv-file *filename*

Syntax Description	<i>filename</i> Name of the <i>csv</i> file containing the subscriber information.		
Defaults	This command has no default settings.		
Command Modes	LineCard Interface Configuration		
Usage Guidelines	Subscriber <i>csv</i> files are application-specific. Refer to the relevant application documentation the definition of the file format. Authorization: admin		
Examples	The following example imports subscriber from the file <i>gold_subscribers.csv</i> . SCE (config if)# subscriber import csv-file gold_subscribers.csv SCE (config if)#		

subscriber sm-connection-failure (SCE 2000 only)

Configures the behavior of the system in case of communication failure between the SM and the SCE platform.

subscriber sm-connection-failure action force-failure

Syntax Description	This command has no arguments or keywords.				
Defaults	This command has no default settings.				
Command Modes	LineCard Interface Configuration				
Usage Guidelines	If SM functionality is critical to the operation of the system: configure forced failure of the SCE Platform in the event of any loss of connection with the SM. If SM functionality is not critical to the operation of the system: no action needs to be configured.				
	Authorization: admin				
Examples	The following example configures forced failure of the SCE Platform in case of failure of the SM. <i>SCE</i> (config if) #subscriber sm-connection-failure action force-failure <i>SCE</i> (config if) #				

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subscriber template export csv-file

Exports a subscriber template to the specified csv file, according to the party template. **subscriber template export csv-file** *filename*

Syntax Description	<i>filename</i> Name of the <i>csv</i> file to which the subscriber template is to be exported.			
Defaults	This command has no default settings.			
Command Modes	LineCard Interface Configuration			
Usage Guidelines				
	Authorization: admin			
Examples	The following example exports the subscriber template to the specified file.			
	<i>SCE</i> (config if)# subscriber template export csv-file gold0507.csv <i>SCE</i> (config if)#			

subscriber template import csv-file

Imports a subscriber template from the specified csv file, creating a party template. **subscriber template import csv-file** *filename*

Syntax Description	<i>filename</i> Name of the <i>csv</i> file containing the subscriber template.		
Defaults	This command has no default settings.		
Command Modes	LineCard Interface Configuration		
Usage Guidelines			
	Authorization: admin		
Examples	The following example imports the subscriber template from the file gold0507.csv.		
	<i>SCE</i> (config if)# subscriber template import csv-file gold0507.csv <i>SCE</i> (config if)#		

subscriber TP	-IP-range name IP-range target-TP		
	Use this command to create or update a TIR. Use the no form of this command to delete a specified TIR.		
	subscriber TP-IP-range name TP-IP-range-name IP-range target-TP IP-range target-TP		
	no subscriber TP-IP-range name IP-range target-TP all		
Syntax Description	<i>TP-IP-range name</i> Meaningful name assigned to this traffic processor IP range		
	IP-range IP address and mask length defining the IP range		
	<i>target-TP</i> number of the traffic processor to which this TIR is to be assigned		
Defaults	This command has no default settings.		
Command Modes	LineCard Interface Configuration		
Usage Guidelines	Use the remove-subscriber-mappings keyword when editing or deleting a TIR to remove any existing subscriber mappings. If mappings exist, and this keyword is not used, the command will not execute.		
	• When deleting a TIR, only the range name is required.		
	• To delete all existing TIRs, use the [no] form of the command with the all keyword instead of the range name.		
	Authorization: admin		
Examples	The following example creates a TIR named CMTS1 and assigns it to traffic processor# 5. The remove-subscriber-mappings keyword is used to remove any existing subscriber mappings.		
	<i>SCE</i> (config if)#subscriber TP-IP-range name CMTS1 IP-range 10.10.10.0/128 target-TP 5 remove-subscriber-mappings		

Related Commands

Cisco Service Control Engine (SCE) CLI Command Reference

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subscriber TP-mappings

Reserves a specified number of subscriber rules for TIRs.

subscriber TP-mappings max-TP-IP-ranges

default subscriber TP-mappings

Syntax Description	<i>max-TP-IP-ranges</i> Number of rules to allocate for TIRs				
Defaults	This command has no default settings.				
Command Modes	LineCard Interface Configuration				
Usage Guidelines	The maximum number of allowed reserved rules is 4096.				
	• By default 0 (zero) rules are reserved for TIRs.				
	• Updating this configuration is a major system event and can only be performed when no subscriber mappings or TIRs are configured.				
	Use the [default] version of this command to restore default subscriber rule allocation.				
	Authorization: admin				
Examples	The following example reserves 500 subscriber rules for TIRs.				
	SCE(config if)#subscriber TP-mappings max-TP-IP-ranges 500				

subscriber TP-	IP-range			
	Use this command to import TIR definitions from a <i>csv</i> file and to export TIR definitions to a <i>csv</i> file.			
	subscriber	r TP-IP-range {import export} csv-file filename		
	Following	is the format of the <i>csv</i> file:		
	range name, ip-address/mask-length, target-TP			
Syntax Description	csv-filenan	csv-filename csv file to be imported or exported to		
	import	Import from the specified csv file.		
	export	Export to the specified csv file.		
Defaults	This command has no default settings.			
Command Modes	LineCard Interface Configuration			
Usage Guidelines	Use the remove-subscriber-mappings keyword when importing TIR definitions to remove any existing subscriber mappings for specified IP ranges. If mappings exist, and this keyword is not used, the import command will not execute.			
	The remove-subscriber-mappings keyword is not applicable when exporting to a <i>csv</i> file.			
	Authorization: admin			
Examples	The following example imports TIR information from the csv file <i>TIR_definitions</i> . The remove- subscriber-mappings keyword is used to remove any subscriber mappings that currently exist in the system on any of the IP ranges specified in the file.			
	<i>SCE</i> (confi mappings	g if)#subscriber TP-IP-range import csv-file TIR_definitions remove-subscriber-		

telnet

	Starts a Telnet session. telnet address [ports]		
Syntax Description	address	Telnet access address.	
	ports	Optional port number. Default is 23.	
Defaults			
Command Modes	Privileged EXEC		
Usage Guidelines			
	Authorization: admin		
Examples	The following example starts a telnet session:		
	<i>SCE</i> #telnet 10.1.5.120 connecting to 10.1.5.120:23		

timeout

Configures the timeout for the Telnet session when the Telnet session is idle. After this time, the Telnet session is disconnected.

timeout time

Syntax Description	time Timeout length in minutes.			
Defaults	time = 30 minutes			
Command Modes	Line Configuration Mode			
Usage Guidelines				
	Authorization: admin			
Examples	The following example sets the timeout to 45 minutes.			
	SCE(config-line)#timeout 45 SCE(config-line)#			
Related Commands	no timeout (on page 2-114)			

tos-marking mode

Enables TOS marking. The SCE Platform can mark the IP ToS field of transmitted packets, according to the Diffserv scheme standard code points.

The platform supports the association of services to the following Diffserv classes: BE (Best effort), EF (Expedited forwarding), AF1, AF2, AF3 and AF4 (Assured forwarding 1-4, respectively). When packets exceed the bandwidth limit they are configured with, they are internally marked in RED color and dropped by the SCE Platform itself. Packets that are below their limit are marked with either green or yellow drop precedence depending on their actual relative rate.

Note	When TOS marking is enabled, the first few TCP packets are associated and marked with a default AF4 class that is mapped to the IQ2 queue. This occurs because the SCE Platform transmits the first few packets before classifying the flow and identifying the application or service		
	tos-marking mode mode		
Syntax Description	<i>mode</i> Mode for TOS marking. Currently the system supports only diffserv .		
Defaults	Disabled		
Command Modes	LineCard Interface Configuration		
Usage Guidelines			
	Authorization: admin		
Examples	The following example enables TOS marking:		
	SCE(config if)#tos-marking mode diffserv SCE(config if)#		
Related Commands	no tos-marking diffserv (on page 2-115)		

tos-marking reset-table

Resets TOS settings to the Diffserv defaults.

tos-marking reset-table

Syntax Description	This command has no arguments or keywords.
Defaults	This command has no default settings.
Command Modes	LineCard Interface Configuration
Usage Guidelines	
	Authorization: admin
Examples	The following example resets the TOS marking.
	SCE(config if)#tos-marking reset-table SCE(config if)#
Related Commands	tos-marking set-table-entry (on page 2-262)

tos-marking set-table-entry

The SCE Platform supports configuration via CLI of the mapping between the class and coloring and the exposed DSCP (Diffserv Code Points) values. The default of this table is direct mapping of the Diffserv standard code points.

The TOS table reads the class and color of the packet being transmitted, and assigns the value set in the table according to the color and class.

tos-marking set-table-entry class class color color value value

Syntax Description	class	Internal class of service assigned to the packet. Legal values are BE , AF1 , AF2 , AF3 , AF4 and EF .	
	color	Internal color assigned to the packet. Legal values are green, yellow, red and any.	
	value	Value of the TOS marking, assigned to the packet IP header, as transmitted by the SCE Platform. This is a 6-bit value, expressed as a hex number in the range $0x0$ to $0x3f$.	
Defaults	Diffserv defaults		
Command Modes	LineCard Interface Configuration		
Usage Guidelines			
	Authoriza	tion: admin	
Examples	The following example sets a TOS marking table entry.		
	SCE(conf SCE(conf	ig if)# tos-marking set-table-entry class AF4 color yellow value 0x24 ig if)#	

traffic-counter

Defines a new traffic counter. Use the no form of the command to delete an existing traffic counter.

traffic-counter name name {count-bytes | count-packets | all}

no traffic-counter

Syntax Description	<i>name</i> name to be assigned to this traffic counter.			
Defaults	This command has no default settings.			
Command Modes	LineCard Interface Configuration			
Usage Guidelines	 The following are usage guidelines for the traffic-counter command: Use the count-bytes keyword to enable counting the bytes in each packet. The counter will increment by the number of bytes in each packet. Use the count-packets keyword to enable counting whole packets. The counter will increment by one for each packet. Use the all keyword with the no form to delete all existing traffic counters. 			
Examples	The following are examples of the traffic-counter command: EXAMPLE 1: Following is an example of creating a traffic counter that will count bytes. <i>SCE</i> (config if)# traffic-counter name counter1 count-bytes EXAMPLE 2: The following example demonstrates how to delete all traffic counters. <i>SCE</i> (config if)# no traffic-counter all			

traffic-rule

Defines a new traffic rule. Use the no form of the command to delete an existing traffic rule.

traffic-rule name IP addresses IP-addresses protocol protocol ports ports flags direction direction traffic-counter traffic-counter action

no traffic-rule

Syntax Description	name	name to be assigned to this traffic rule.
	IP-addresses	subscriber-side and network-side <ip specification=""></ip>
	protocol	Any one of the following protocols: TCP/UCP/ICMP/IGRP/EIGRP/IS-IS/OSPF/Other
	ports	subscriber-side and network-side <port specification=""></port>
	flags	TCP <flags specification=""></flags>
	direction	upstream/downstream/all
	traffic-counte	r name of traffic counter/none
	action	block ignore

Defaults

Command Modes	LineCard Interface Configuration
Usage Guidelines	The following are the usage guidelines for the traffic-rule command:
	IP specification:
	all ([all-but] (<ip-address> <ip-range>))</ip-range></ip-address>
	• <ip-address> is a single IP address in dotted-decimal notation, such as 10.1.2.3</ip-address>
	• <ip-range> is an IP subnet range, in the dotted-decimal notation followed by the number of significant bits, such as 10.1.2.0/24.</ip-range>
	port specification (TCP/UDP only):
	all/([all-but] (<port>/<port-range>))</port-range></port>
	 <port> is a single port number (0-65535)</port>
	 <port-range> is a port range in the following notation: <min-port>:<max-port>, such as 80:82.</max-port></min-port></port-range>

<flags specification> (TCP only):

Defines criteria for matching packets based on the TCP flag values.

all | (SYN (0|1|all) [FIN (0|1|all) [RST (0|1|all) [ACK (0|1|all) [URG (0|1|all) [PSH (0|1|all)]]])

For each flag a value of 0, 1, or 'all' can be selected. Default is "all".

traffic-counter:

Either of the following:

- Name of an existing traffic counter: Packets meeting the criteria of the rule are to be counted in the specified counter. If a counter name is defined, the "count" action is also defined implicitly.
- none: If **none** is specified, then an action must be explicitly defined via the **action** option.
- Use the **all** keyword with the no form to delete all existing traffic rules.

Authorization: admin

Examples

The following are examples of the traffic-rule command:

EXAMPLE 1:

This example creates the following traffic rule:

Name = rule2

IP addresses: subscriber side = all IP addresses, network side = all IP addresses EXCEPT the subnet 10.10.10.0/24

Protocol = TCP

Ports: subscriber side = 100, network side = 100-150

Flags = RST flag when value = 1 and all ACK flag values

Direction = downstream

Traffic counter = counter2

Action = Block

The actions performed will be counting and blocking

SCE (config if)# traffic-rule rule2 IP-addresses subscriber-side all network-side all-but 10.10.10.0/24 protocol TCP ports subscriber-side 100 network-side 100:150 flags RST 1 ACK all direction downstream traffic-counter counter2 action block

EXAMPLE 2:

This example creates the following traffic rule:

Name = rule3 IP addresses: all

ii addiesses. ali

Protocol = IS-IS

Direction = upstream

Traffic counter = none

Action = ignore (required since traffic-counter = none)

Since it is not TCP/UDP, port and flags are not applicable.

The only action performed will be **Ignore**.

SCE (config if)# traffic-rule rule3 IP-addresses all protocol IS-IS direction upstream trafficcounter none action ignore

EXAMPLE 3:

The following example demonstrates how to delete all traffic rules.

SCE(config if)# no traffic-rule all

unzip

	Extracts a zip file to the current directory.
	unzip filename
Syntax Description	<i>filename</i> Zip file to be extracted.
Defaults	
Command Modes	Privileged EXEC
Usage Guidelines	
	Authorization: admin
Examples	The following example extracts the zipfile.zip: SCE#unzip zipfile.zip Unzipping '/tffs0/zipfile.zip' Zip file has 3 entries: 1.sli, 13429 bytes extracted preflut.sli, 12558 bytes extracted temp/SLI/x/IpraeLut.sli, 12929 bytes extracted Finished, Extracted 3 files.

VLAN

Configures the VLAN environment.

VLAN option

Syntax Description	option	There are three options:	
		symmetric classify, symmetric skip,a-symmetric skip.	
Defaults	symmetric skip		
Command Modes	LineCard Interface Configuration		
Usage Guidelines			
	Authorizati	on: admin	
Examples	The follow	ing example configures the VLAN environment:.	
	SCE(confi	g if)#vlan symmetric skip	
Related Commands			

vlan translation

	Sets the VLAN translation constant for the network port side. The subscriber ports are doing the reverse operation. For example, if network is incrementing by 5 then subscriber port will be decremented by 5.			
	Use the [no] form of this command to disable vlan translation for this port (sets the value to zero).			
	vlan translation {increment decrement} value value			
	no vlan translation			
Syntax Description	<i>value</i> The value of the VLAN translation constant for the network port side.			
Defaults	value = 0			
Command Modes	LineCard Interface Configuration			
Usage Guidelines				
	Authorization: admin			
Examples	The following example specifies a VLAN translation constant of 16 for the network port side .			
	SCE(config if)#vlan translation increment value 16			

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