

Chapter 4

Getting Online Help for the SRC CLI

This chapter describes the SRC CLI online help. Topics include:

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Getting Help for Commands and Statements for the SRC CLI

Information about commands and statements is provided at each level of the CLI hierarchy. You can type a question mark to get help in the following ways:

- If you type the question mark at the command-line prompt, the CLI lists the available commands, statements, or options. For example, to view a list of top-level operational mode commands, type a question mark (?) at the command-line prompt.

```
user@host> ?
Possible completions:
clear          Clear system-level objects
configure     Enter configuration mode
disable       Stop an SDX component
enable        Start an installed and configured component
exit          Exit a CLI session
file          Perform file operations
help          Display help about commands and statements
history       Display command history
request       Make request for specified component
restart       Restart an SDX component
set           Properties for the CLI environment
show          Display configuration information
ssh           Open SSH session to another host
start         Start shell
telnet        Telnet to another host
test         Test a NIC resolution
user@host>
```

- If you type the question mark after entering the complete name of a command, statement, or option, the CLI lists the available options, then displays again the text that you typed.

```
user@host> clear ?
Possible completions:
  sae                Clear SAE-level objects
  security           Delete security data
user@host> clear
```

- If you type the question mark in the middle of a command, statement, or option name, the CLI lists possible command completions that match the letters you have entered so far, then displays again the text that you typed. For example, to list all operational mode commands that start with the letter c, type the following:

```
user@host> c?
Possible completions:
  clear              Clear (delete) data
  configure          Enter configuration mode
user@host> c
```

You can also get extended help for a command, statement, or option by using the **help** command:

```
user@host> help enable
Start a specified SDX component.
```

Getting Help for Omitted Statements

If you omit a required statement at a particular hierarchy level, when you issue the **show** command in configuration mode, a message indicates which statement is missing. For example:

```
user@host# show system
user test {
  class subscriber-control; ## Warning: Undefined class
'subscriber-control'
  full-name test;
  uid 503;
  gid 100;
  authentication {
    encrypted-password "{crypt}0N50d4BqvwPKY";
  }
}
```

Using SRC CLI Command Completion

You do not always have to remember or type the full command or option name for the CLI to recognize it.

- To display all possible command or option completions, type the partial command followed immediately by a question mark.
- To complete a command or option that you have partially typed, press the Spacebar. If the partially typed letters begin a string that uniquely identifies a command, the complete command name appears. Otherwise, a prompt indicates that you have entered an ambiguous command, and the possible completions are displayed.

Command completion also applies to other strings, such as filenames, interface names, and usernames. To display all possible values, type a partial string followed immediately by a question mark. However, to complete these strings, press the Tab key; pressing the Spacebar does not work.

Examples: Using CLI Command Completion

Issue a show command for a component that starts with the letter s:

```
user@host> show s
                ^
's' is ambiguous.
Possible completions:
  sae                Display SAE information
  security           Display security information
  system            Display system information
user@host>
```

Display a list of all log files whose names start with the letter m:

```
user@host> file show /var/log/m?
Possible completions:
<filename>      Filename to show
/var/log/maillog Size: 0, Last changed: Sep 27, 2006 10:33 AM
/var/log/messages Size: 109569, Last changed: Oct 2, 2006 3:10 PM
```

Using Command Completion in Configuration Mode

The CLI command completion functions also apply to the commands in configuration mode and to configuration statements. To display all possible commands or statements, type the partial string followed immediately by a question mark; to complete a command or statement that you have partially typed, press the Spacebar.

Command completion also applies to identifiers, with one slight difference. To display all possible identifiers, type a partial string followed immediately by a question mark. To complete an identifier, you must press the Tab key. This scheme allows you to enter identifiers with similar names; then press the Spacebar when you are done typing the identifier name.

Examples: Using Command Completion in Configuration Mode

List the configuration mode commands:

```
[edit]
user@host# ?
Possible completions:
  commit          Commit a set of changes
  delete          Delete a configuration statement or identifier
  edit            Specify edit level in hierarchy
  exit            Exit from this level
  help            Display help about commands and statements
  history         Display command history
  insert          Insert an identifier
  load            Load configuration from an ASCII file
  rename          Rename a statement or identifier
  rollback        Discard current set of changes
  run             Run an operational mode command
  save            Save configuration to a file
  set             Set a configuration property
  show            Display configuration information
  top             Return to top level of configuration mode
  up             Move up one level in hierarchy
```

List all the statements available at the [edit] hierarchy level:

```
[edit]
user@host# edit ?
Possible completions:
> interfaces      Interfaces on the SDX platform
> policies        Policy configuration
> redirect-server Redirect server properties
> routing-options Protocol-independent routing option configuration
> services        Service configuration
> shared          Configure a shared configuration
> slot            Component configuration
> snmp            SNMP agent
> subscribers     Subscriber and subscription configuration
> system          System parameters
```

List all the statements available at the [edit system] hierarchy level:

```
[edit]
user@host# edit system ?
Possible completions:
  <[Enter]>      Execute this command
  > ldap         LDAP properties
  > login        Login properties
  > ntp          NTP configuration
  > radius-server RADIUS server configuration
  > services     System services configuration
  > syslog       System log configuration
  > tacplus-server TACACS+ server configuration
  |             Pipe through a command
```

List all commands that start with a particular letter or string:

```
[edit]
user@host# edit system l?
Possible completions:
  > ldap         LDAP properties
  > login        Login properties
user@host# edit system l
```

List all configured Ethernet interfaces:

```
[edit]
user@host# edit interfaces et?
Possible completions:
  <name>          Interface name
  eth0
  eth1
  eth2
  eth3
user@host# edit interfaces et
```

Display a list of all configured interfaces:

```
user@host# show interfaces ?
Possible completions:
  <[Enter]>      Execute this command
  <name>         Interface name
  eth0          Interface name
  lo            Interface name
  |             Pipe through a command
user@host# show interfaces
```

