

## Chapter 4

# Getting Online Help

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

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## Getting Help for Commands and Statements

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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

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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 CLI Command Completion

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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

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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 an ASCII 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
```

