

## Chapter 5

# Accessing and Starting the SRC CLI

This chapter describes how to configure access to the SRC command-line interface (CLI). Topics include:

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## Overview of Configuration for the SRC CLI

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You can use the SRC CLI on a C-series platform or a Solaris platform that has the SRC software and the CLI installed.

Most SRC configuration data is stored in a directory. You store SRC configuration information in the Juniper Networks database on the C-series platform, and in a supported directory on a Solaris platform. When you use the Juniper Networks database, you can use the default configuration for the directory connection. You can add backup directories and change the password to the directory.

The CLI for policies, services, and subscribers requires that you configure access and that you explicitly start that part of the CLI.

You configure access to the SRC CLI by setting up user access accounts.

For more information, see the following sources:

- *Accessing the Policies, Services, and Subscribers CLI on page 53*
- *Chapter 19, Configuring User Access*
- *SRC-PE CLI Command Reference*

## Changing the Directory Access Configuration for the CLI

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On Solaris platforms, configure the CLI to use the directory that stores SRC configuration data.

### Configuration Statements for CLI Directory Access

Use the following configuration statements to change the connection to the directory that stores SRC configuration information. You enter the **system ldap client** statement at the [edit] hierarchy level:

```
system ldap client {
  base-dn base-dn;
  url url;
  backup-urls backup-urls;
  authentication-dn authentication-dn;
  credentials credentials;
  connect-timeout connect-timeout;
  time-limit time-limit;
  eventing;
  polling-interval polling-interval;
  connection-manager-id connection-manager-id;
  dispatcher-pool-size dispatcher-pool-size;
  event-base-dn event-base-dn;
  signature-dn signature-dn;
  blacklist;
}
```



**NOTE:** Do not change the value for the **enable-eventing**, **polling-interval**, **connection-manager-id**, **dispatcher-pool-size**, or **event-base-dn** statements unless instructed to do so by Juniper Networks.

The **eventing** statement is enabled by default.

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### Changing Directory Access Properties

Use the following configuration statements to change connection properties for the directory that stores SRC configuration data:

```
system ldap client {
  base-dn base-dn;
  url url;
  backup-urls [backup-urls...];
  principal principal;
  credentials credentials;
  timeout timeout;
  time-limit time-limit;
}
```



**NOTE:** Before you change directory connection properties, make sure that all configuration changes have been committed.

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To change connection information to the directory that stores SRC configuration information:

1. From configuration mode, access the configuration statement that configures the directory connection.

```
[edit]
user@host# edit system ldap client
```

2. (Optional) Change the DN of the root directory to store SRC configuration information. You can use the default root *o = umc*.

```
[edit system ldap client]
user@host# set base-dn base-dn
```

3. (Optional) Change the URL that identifies the location of the primary directory server.

```
[edit system ldap client]
user@host# set url url
```

4. (Optional) Specify URLs that identify the locations of backup directory servers.

```
[edit system ldap client]
user@host# set backup-urls backup-url-n backup-url-n2
```

Backup servers are used if the primary directory server is not accessible.

5. (Optional) Change the DN that defines the username with which an SRC component accesses the directory.

```
[edit system ldap client]
user@host# set principal principal
```

For example:

```
[edit system ldap client]
user@host# set principal-dn cn=area1,o=Operators,o=umc
```

6. (Optional) Change the password used for authentication with the directory server.

```
[edit system ldap client]
user@host# set credentials credentials
```

7. (Optional) Specify the maximum amount of time during which the directory must respond to a connection request.

```
[edit system ldap client]
user@host# set timeout timeout
```

8. (Optional) Specify the length of time to wait for a connection to the directory to be established. If you set the value to 0, there is no time limit.

```
[edit system ldap client]
user@host# set time-limit time-limit
```

9. (Optional) Change directory eventing properties for the CLI. .



**NOTE:** Do not change the value for the `enable-eventing`, `polling-interval`, `connection-manager-id`, `dispatcher-pool-size`, or `event-base-dn` statements unless instructed to do so by Juniper Networks.

The `eventing` statement is enabled by default.

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In most cases, you use the default configuration for directory eventing properties. For information about changing directory eventing properties, see *Chapter 25, Configuring Local Properties with the SRC CLI*.

## Verifying the Configuration for Directory Access

To verify the configuration for directory connections:

1. From configuration mode, access the configuration statement that configures the directory connection for the CLI.

```
[edit]
user@host# edit system ldap client
```

2. Run the `show` command. For example:

```
[edit system ldap client]
user@host# show
base-dn o=UMC;
url ldap://127.0.0.1;
principal cn=cli,ou=components,o=operators,<base>;
credentials *****;
timeout 10;
time-limit 5000;
eventing;
polling-interval 30;
connection-manager-id CLI_DATA_MANAGER;
dispatcher-pool-size 1;
event-base-dn o=UMC;
signature-dn o=UMC;
blacklist;
```

## Starting the CLI

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When you log in to the CLI, the privileges for your user account determine which commands and configuration statements you can access. A login account with superuser privileges gives a user access to all commands and statements.

### Starting the CLI on a C-series Platform

To log in to a C-series platform and start the CLI:

1. Log in to a C-series platform through an account that has super-user privileges.

For example, to log in to a C-series platform through an SSH session:

```
#ssh my_admin@my_cseries_platform
```

2. Start the CLI:

```
root# cli
--- SRC CLI 7.0 build CLI.B.7.0.0.006
(c) 2005-2006 Juniper Networks Inc.
user@host>
```

The > command prompt shows you are in operational mode. Later, when you enter configuration mode, the prompt will change to #.

### Starting the CLI on a Solaris Platform

To start the CLI on a Solaris platform:

1. Log into the Solaris platform through a user account that has super-user privileges configured for the SRC software.
2. Start the CLI from the directory in which it is installed.

```
# /opt/UMC/cli/bin/cli
--- SRC CLI 7.0 build CLI.B.7.0.0.006
(c) 2005-2006 Juniper Networks Inc.
user@host>
```

### Accessing the Policies, Services, and Subscribers CLI

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The Policies, Services, and Subscribers CLI is a part of the CLI that requires separate configuration. Before you can configure policies, services, and subscribers from the CLI, configure access to Policies, Services, and Subscribers CLI, and then enable it.

## Configuring Access to the Policies, Services, and Subscribers CLI

To make the Policies, Services, and Subscribers CLI accessible to users:

1. From configuration mode, access the [edit system services editor] hierarchy level.

```
[edit]
user@host# edit system services editor
```

2. Specify the type of password encryption to be used.

```
[edit system services editor]
user@host# password-encryption (crypt | md5 | sha | plain)
```

where:

- crypt—UNIX crypt, one-way encryption
- md5—Message Digest 5 (MD5), a 128-bit message digest
- sha—SHA message digest, a 160-bit message digest
- plain—No encryption

## Starting the Policies, Services, and Subscribers CLI

The Policies, Services, and Subscribers CLI lets you modify data shared by the instances of the SRC software this are running on a C-series platform or a Solairs system across the network.

When you use the Policies, Services, and Subscribers CLI, ensure that only one user makes changes to the data at one time. If more than one user makes changes to the same configuration information for policies, services, or subscriptions, the software stores the first change to the data; subsequent changes are discarded.

To start the Policies, Services, and Subscribers CLI:

- Enter the `enable component` command.

```
user@host> enable component editor
```