

Chapter 8

Using Simulated Subscribers for Testing with the SRC CLI

This chapter describes how to log in and log out simulated subscribers with the CLI. Topics include:

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Overview of Simulated Subscribers

Simulated subscribers allow you to create subscriber sessions without connecting to a router or other device. When developing a portal, you can log in as a simulated subscriber to test a portal without a router or a client PC.

Commands to Manage Simulated Subscribers

You can use the following operational mode commands to manage simulated subscribers.

- `request sae login ipv4 authenticated-dhcp`
- `request sae login ipv4 authenticated-interface`
- `request sae login ipv4 unauthenticated-dhcp`
- `request sae login ipv4 unauthenticated-interface`
- `request sae logout dn`
- `request sae logout ip`
- `request sae logout login-name`
- `request sae logout session-id`

- `show sae subscribers`
- `show sae subscribers dn`
- `show sae subscribers ip`
- `show sae subscribers login-name`
- `show sae subscribers session-id`

For detailed information about each command, see the *SRC-PE CLI Command Reference*.

Logging In Simulated Subscribers with the CLI

You can log in IPv4 subscribers who are:

- Authenticated DHCP subscribers
- Authenticated interface subscribers
- Unauthenticated DHCP subscribers
- Unauthenticated interface subscribers

Logging in simulated subscribers allows you to test your SRC application without the need for a router or other device.

You can log out from the simulated subscriber session in the same way that you log out from other subscriber sessions.

Logging In Authenticated DHCP Subscribers

Use the following command to log in simulated IPv4 authenticated DHCP subscribers:

```
request sae login ipv4 authenticated-dhcp virtual-router virtual-router address address
login-name login-name mac-address mac-address <service-bundle service-bundle>
<radius-class radius-class> <interface-name interface-name> <interface-alias
interface-alias> <interface-description interface-description> <nas-port-id nas-port-id>
```

To log in a simulated IPv4 authenticated DHCP subscriber:

1. Issue the `request sae login ipv4 authenticated-dhcp` command. Specify the `virtual-router`, `address`, `login-name`, and `mac-address` options.

```
user@host> request sae login ipv4 authenticated-dhcp virtual-router virtual-router
address address login-name login-name mac-address mac-address
```

2. (Optional) To specify the service bundle used when logging in the simulated subscriber, use the `service-bundle` option.
3. (Optional) To specify the RADIUS class used when logging in the simulated subscriber, use the `radius-class` option.

4. (Optional) To specify the virtual interface used when logging in the simulated subscriber, use the **interface-name** option.
5. (Optional) To specify the interface description used when logging in the simulated subscriber, use the **interface-alias** option.

If you are simulating JUNOSe routers, the interface alias is the description that is configured on JUNOSe routers with the **interface description** command.

6. (Optional) To specify the alternate interface name used when logging in the simulated subscriber, use the **interface-description** option.
7. (Optional) To specify the port identifier of an interface used when logging in the simulated subscriber, use the **nas-port-id** option.

Logging In Authenticated Interface Subscribers

Use the following command to log in simulated IPv4 authenticated interface subscribers:

```
request sae login ipv4 authenticated-interface virtual-router virtual-router address
address login-name login-name <service-bundle service-bundle> <radius-class
radius-class> <interface-name interface-name> <interface-alias interface-alias>
<interface-description interface-description> <nas-port-id nas-port-id>
```

To log in a simulated IPv4 authenticated interface subscriber:

1. Issue the **request sae login ipv4 authenticated-interface** command. Specify the **virtual-router**, **address**, and **login-name** options.

```
user@host> request sae login ipv4 authenticated-interface virtual-router
virtual-router address address login-name login-name
```

2. (Optional) To specify the service bundle used when logging in the simulated subscriber, use the **service-bundle** option.
3. (Optional) To specify the RADIUS class used when logging in the simulated subscriber, use the **radius-class** option.
4. (Optional) To specify the virtual interface used when logging in the simulated subscriber, use the **interface-name** option.
5. (Optional) To specify the interface description used when logging in the simulated subscriber, use the **interface-alias** option.

If you are simulating JUNOSe routers, the interface alias is the description that is configured on JUNOSe routers with the **interface description** command.

6. (Optional) To specify the alternate interface name used when logging in the simulated subscriber, use the **interface-description** option.
7. (Optional) To specify the port identifier of an interface used when logging in the simulated subscriber, use the **nas-port-id** option.

Logging In Unauthenticated DHCP Subscribers

Use the following command to log in simulated IPv4 unauthenticated DHCP subscribers:

```
request sae login ipv4 unauthenticated-dhcp virtual-router virtual-router address
address mac-address mac-address <login-name login-name> <service-bundle
service-bundle> <radius-class radius-class> <interface-name interface-name>
<interface-alias interface-alias> <interface-description interface-description>
<nas-port-id nas-port-id>
```

To log in a simulated IPv4 unauthenticated DHCP subscriber:

1. Issue the `request sae login ipv4 unauthenticated-dhcp` command. Specify the `virtual-router`, `address`, and `mac-address` options.

```
user@host> request sae login ipv4 unauthenticated-dhcp virtual-router
virtual-router address address mac-address mac-address
```

2. (Optional) To specify the fully-qualified name used to log in the simulated subscriber, use the `login-name` option.
3. (Optional) To specify the service bundle used when logging in the simulated subscriber, use the `service-bundle` option.
4. (Optional) To specify the RADIUS class used when logging in the simulated subscriber, use the `radius-class` option.
5. (Optional) To specify the virtual interface used when logging in the simulated subscriber, use the `interface-name` option.
6. (Optional) To specify the interface description used when logging in the simulated subscriber, use the `interface-alias` option.

If you are simulating JUNOSe routers, the interface alias is the description that is configured on JUNOSe routers with the `interface description` command.

7. (Optional) To specify the alternate interface name used when logging in the simulated subscriber, use the `interface-description` option.
8. (Optional) To specify the port identifier of an interface used when logging in the simulated subscriber, use the `nas-port-id` option.

Logging In Unauthenticated Interface Subscribers

Use the following command to log in simulated IPv4 unauthenticated interface subscribers:

```
request sae login ipv4 unauthenticated-interface virtual-router virtual-router
interface-name interface-name <address address> <login-name login-name>
<service-bundle service-bundle> <radius-class radius-class> <interface-alias
interface-alias> <interface-description interface-description> <nas-port-id nas-port-id>
```

To log in a simulated IPv4 authenticated interface subscriber:

1. Issue the `request sae login ipv4 authenticated-interface` command. Specify the `virtual-router` and `interface-name` options.

```
user@host> request sae login ipv4 authenticated-interface virtual-router
virtual-router interface-name interface-name
```

2. (Optional) To specify the IP address from which you log in the simulated subscriber, use the `address` option.
3. (Optional) To specify the fully-qualified name used to log in the simulated subscriber, use the `login-name` option.
4. (Optional) To specify the service bundle used when logging in the simulated subscriber, use the `service-bundle` option.
5. (Optional) To specify the RADIUS class used when logging in the simulated subscriber, use the `radius-class` option.
6. (Optional) To specify the interface description used when logging in the simulated subscriber, use the `interface-alias` option.

If you are simulating JUNOSe routers, the interface alias is the description that is configured on JUNOSe routers with the `interface description` command.

7. (Optional) To specify the alternate interface name used when logging in the simulated subscriber, use the `interface-description` option.
8. (Optional) To specify the port identifier of an interface used when logging in the simulated subscriber, use the `nas-port-id` option.

Logging Out Simulated Subscribers with the CLI

You can log out subscribers who are accessible by:

- DN
- IP address
- Login name
- Session ID

To view all subscriber sessions:

```
user@host> show sae subscribers
```

Logging Out Subscribers by DN

To log out subscribers who are accessible by DN:

1. Issue the `show sae subscribers dn` command to view the subscribers who are accessible by DN.
2. Issue the `request sae logout dn` command to log out all subscribers who are accessible by DN.

- To log out specific subscribers, use the `filter` option and specify all or part of the DN for the subscribers that you want to log out.

```
user@host> request sae logout dn filter filter
```

- To specify that no confirmation is requested before the software logs out the subscribers, use the `force` option.

```
user@host> request sae logout dn force
```

```
user@host> request sae logout dn filter filter force
```

Logging Out Subscribers by IP Address

To log out subscribers who are accessible by IP address:

1. Issue the `show sae subscribers ip` command to view the subscribers who are accessible by IP address.

2. Issue the `request sae logout ip` command to log out all subscribers who are accessible by IP address.

- To log out specific subscribers, use the `filter` option and specify the IP address for the subscribers that you want to log out.

```
user@host> request sae logout ip filter filter
```

- To specify that no confirmation is requested before the software logs out the subscribers, use the `force` option.

```
user@host> request sae logout ip force
user@host> request sae logout ip filter filter force
```

Logging Out Subscribers by Login Name

To log out subscribers who are accessible by login name:

1. Issue the `show sae subscribers login-name` command to view the subscribers accessible by login name.
2. Issue the `request sae logout login-name` command to log out all subscribers accessible by login name.

- To log out specific subscribers, use the `filter` option and specify all or part of the login name for the subscribers that you want to log out.

```
user@host> request sae logout login-name filter filter
```

- To specify that no confirmation is requested before the software logs out the subscribers, use the `force` option.

```
user@host> request sae logout login-name force
user@host> request sae logout login-name filter filter force
```

Logging Out Subscribers by Session ID

To log out subscribers who are accessible by session ID:

1. Issue the `show sae subscribers session-id` command to view the subscribers accessible by session ID.
2. Issue the `request sae logout session-id` command to log out all subscribers accessible by session ID.

- To log out specific subscribers, use the `filter` option and specify all or part of the session ID for the subscribers that you want to log out.

```
user@host> request sae logout session-id filter filter
```

- To specify that no confirmation is requested before the software logs out the subscribers, use the **force** option.

```
user@host> request sae logout session-id force
```

```
user@host> request sae logout session-id filter filter force
```