

## Chapter 7

# 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

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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

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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

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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

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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
```

