

Chapter 14

Configuring Subscribers and Subscriptions with the SRC CLI

This chapter shows how to use the SRC CLI to configure subscribers and managers and to configure subscriptions to services. You can use the SRC CLI on the C-series platform and on Solaris platforms.

You can also use SDX Admin to configure subscribers and subscriptions on a Solaris platform. See *Chapter 13, Configuring Subscribers and Subscriptions with SDX Admin*.

Topics in this chapter include:

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- Enabling the Subscriber and Subscription Configuration on the SRC CLI on page 274
- Adding Subscribers on page 275
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Overview of Configuring Subscribers and Subscriptions

This section gives an overview of configuring subscribers and subscriptions for the SRC software.

Specifying the Activation Order for Subscriptions

You can specify the order in which the SAE activates subscriptions that are set up to activate on login for a particular subscriber. To specify the order, you define a precedence for the activation of each subscription. The SAE activates services in ascending order of precedence; if multiple services have the same precedence, the SAE activates them in an unspecified order.

You can configure the activation order by setting the **activation-order** option when you configure a subscription to a service with the SRC CLI. The enterprise manager portal automatically sets the activation order of some subscriptions to ensure they are activated before other subscriptions that depend on them.

Inheritance of Properties and Subscriptions

Subordinate subscribers inherit properties and SAE subscriptions from their parent subscribers, unless you specify a different value for the subordinate. Properties that a subscriber can inherit include the maximum number of concurrent logins and the session timeout. For example, if you configure a subscription to a video service for an enterprise and configure a different subscription to the same video service for a site within that enterprise, the site uses its own subscription rather than the inherited subscription.

Enabling the Subscriber and Subscription Configuration on the SRC CLI

Before you can configure subscribers and subscriptions with the SRC CLI, you must enable the policy, service, and subscriber editor on the SRC CLI. To do so:

- In operational mode, enter the following command:

```
user@host> enable component policy-service-subscriber
```

If you are using multiple C-series platforms, we recommend that you enable the policy, service, and subscriber editor on only one C-series platform on your network. If you enable the editor on multiple platforms, there is a risk that configuration changes will conflict. In this case, the second edit that is committed to the platform is lost.

Adding Subscribers

This section describes how to add and configure subscribers with the SRC CLI.

The tasks to configure subscribers are:

- Adding Retailers on page 276
- Adding Subscriber Folders on page 278

The subscriber hierarchy requires that the objects immediately subordinate to retailers be subscriber folders. You can, however, use subscriber folders subordinate to other subscriber objects to organize groups of subscribers.

- Adding Residential Subscribers on page 279
- Adding Enterprises on page 283
- Adding Sites on page 285
- Adding Devices as Subscribers on page 286

After you add subscribers, you can add managers and configure subscriptions. See *Adding Managers* on page 287 and *Configuring Subscriptions* on page 290.

Adding Retailers

If you customize the SRC software for only one Internet service provider (ISP), use the retailer called *default* that is provided in the sample data. If the SRC software will manage multiple ISPs, add a retailer for each ISP.

Use the following configuration statements to add a retailer:

```
subscribers retailer name {
    domain-name [domain-name...];
    authentication-plug-in [authentication-plug-in...];
    dhcp-authentication-plug-in [dhcp-authentication-plug-in...];
    tracking-plug-in [tracking-plug-in...];
    maximum-login maximum-login;
    session-timeout session-timeout;
    scope [scope...];
    substitution [substitution...];
}
```

To add a retailer:

1. From configuration mode, enter the retailer configuration. In this procedure, retailer-one is the name of the retailer.

```
user@host# edit subscribers retailer retailer-one
```

2. Configure the domain name(s) associated with the retailer.

```
[edit subscribers retailer retailer-one]
user@host# set domain-name [domain-name...]
```

3. (Optional) Configure the plug-in(s) used to authenticate subscribers who log in to the domains specified for this retailer.

```
[edit subscribers retailer retailer-one]
user@host# set authentication-plug-in [authentication-plug-in...]
```

4. (Optional) Configure the DHCP authorization plug-in(s) used to authenticate DHCP discover requests for subscribers who log in to the domains specified for this retailer.

```
[edit subscribers retailer retailer-one]
user@host# set dhcp-authentication-plug-in [dhcp-authentication-plug-in...]
```

5. (Optional) Configure the plug-in(s) used for accounting or tracking subscriber sessions.

```
[edit subscribers retailer retailer-one]
user@host# set tracking-plug-in [tracking-plug-in...]
```

6. (Optional) Configure the maximum number of concurrent logins for subscribers associated with this retailer.

```
[edit subscribers retailer retailer-one]
user@host# set maximum-login maximum-login
```

7. (Optional) Configure the timeout for subscriber sessions.

```
[edit subscribers retailer retailer-one]
user@host# set session-timeout session-timeout
```

8. (Optional) Assign service scopes to the retailer.

```
[edit subscribers retailer retailer-one]
user@host# set scope [scope...]
```

9. (Optional) Configure the actual values for parameters associated with this retailer.

```
[edit subscribers retailer retailer-one]
user@host# set substitution [substitution...]
```

10. (Optional) Verify your configuration.

```
[edit subscribers retailer retailer-one]
user@host# show
domain-name abc.com;
authentication-plug-in flexRadiusAuth;
tracking-plug-in fileAcct;
maximum-login 8;
session-timeout 6000;
```

Configuring Administrative Information for Retailers

Use the following configuration statements to configure administrative information about the retailer:

```
subscribers retailer name info {
  contact contact;
  e-mail e-mail;
  url url;
}
```

To add administrative information about retailers:

1. From configuration mode, enter the retailer subscriber info configuration. In this procedure, retailer-one is the name of the retailer.

```
user@host# edit subscribers retailer retailer-one info
```

2. (Optional) Configure a contact name for the retailer.

```
[edit subscribers retailer retailer-one info]
user@host# set contact contact
```

3. (Optional) Configure an e-mail address for the retailer.

```
[edit subscribers retailer retailer-one info]
user@host# set e-mail e-mail
```

4. (Optional) Configure a URL for the retailer.

```
[edit subscribers retailer retailer-one info]
user@host# set url url
```

5. (Optional) Verify your configuration.

```
[edit subscribers retailer retailer-one info]
user@host# show
contact "Mary Smith";
e-mail msmith@abc.com;
url www.abc.com;
```

Adding Subscriber Folders

You can create subscriber folders for retailers, existing subscriber folders, enterprises, and sites. You must create a subscriber folder in a retailer object before you can add other types of subscribers.

Use the following configuration statements to configure subscriber folders:

```
subscribers retailer name subscriber-folder folder-name {
    maximum-login maximum-login;
    session-timeout session-timeout;
    scope [scope...];
    substitution [substitution...];
}
```

To create a subscriber folder:

1. From configuration mode, enter the subscriber folder configuration. In this procedure, *retailer-one* is the name of the retailer and *local* is the name of the subscriber folder.

```
user@host# edit subscribers retailer retailer-one subscriber-folder local
```

2. (Optional) Configure the maximum number of concurrent logins for subscribers associated with this folder.

```
[edit subscribers retailer retailer-one subscriber-folder local]
user@host# set maximum-login maximum-login
```

3. (Optional) Configure the timeout for subscriber sessions associated with this folder.

```
[edit subscribers retailer retailer-one subscriber-folder local]
user@host# set session-timeout session-timeout
```

4. (Optional) Assign service scopes to the folder.

```
[edit subscribers retailer retailer-one subscriber-folder local]
user@host# set scope [scope...]
```

5. (Optional) Configure the actual values for parameters associated with this folder.

```
[edit subscribers retailer retailer-one subscriber-folder local]
user@host# set substitution [substitution...]
```

6. (Optional) Verify your configuration.

```
[edit subscribers retailer retailer-one subscriber-folder local]
user@host# show
session-timeout 9000;
scope POP-Boston;
```

Adding Residential Subscribers

Use the following configuration statements to configure residential subscribers:

```
subscribers retailer name subscriber-folder folder-name subscriber name {
  common-name common-name;
  surname surname;
  given-name given-name;
  initials initials;
  anonymous;
  ip-address ip-address;
  interface-name interface-name;
  maximum-login-group maximum-login-group;
  display-name display-name;
  encrypted-password encrypted-password;
  plain-text-password;
  maximum-login maximum-login;
  session-timeout session-timeout;
  accounting-user-id accounting-user-id;
  substitution [substitution...];
}
```

To add a residential subscriber:

1. From configuration mode, enter the residential subscriber configuration. In this procedure, peter is the name of the subscriber record.

```
user@host# edit subscribers retailer default subscriber-folder local subscriber
peter
```

2. Configure the name that defines the subscriber in the directory.

```
[edit subscribers retailer default subscriber-folder local subscriber peter]
user@host# set common-name common-name
```

3. Configure the subscriber's last name.

```
[edit subscribers retailer default subscriber-folder local subscriber peter]
user@host# set surname surname
```

4. (Optional) Configure the subscriber's first name.

```
[edit subscribers retailer default subscriber-folder local subscriber peter]
user@host# set given-name given-name
```

5. (Optional) Configure the subscriber's middle initial(s)

```
[edit subscribers retailer default subscriber-folder local subscriber peter]
user@host# set initials initials
```

6. (Optional) Specify whether the subscriber profile created with this subscriber definition is a shared profile. Subscribers cannot modify shared profiles.

```
[edit subscribers retailer default subscriber-folder local subscriber peter]
user@host# set anonymous
```

7. (Optional) Configure the IP address for subscribers who have fixed IP addresses, and for whom the SRC does not learn addresses through its management of routers or through calls to its notification API.

```
[edit subscribers retailer default subscriber-folder local subscriber peter]
user@host# set ip-address ip-address
```

8. (Optional) Configure the type and specifier of the router interface and virtual router that manage this subscriber.

```
[edit subscribers retailer default subscriber-folder local subscriber peter]
user@host# set interface-name interface-name
```

9. (Optional) Configure the maximum number of concurrent logins for this subscriber and all subordinate objects.

```
[edit subscribers retailer default subscriber-folder local subscriber peter]
user@host# set maximum-login-group maximum-login-group
```

10. (Optional) Configure the subscriber's name as it appears in login screens.

```
[edit subscribers retailer default subscriber-folder local subscriber peter]
user@host# set display-name display-name
```

11. (Optional) Configure the login password and type of encryption.

```
[edit subscribers retailer default subscriber-folder local subscriber peter]
user@host# set encrypted-password encrypted-password
```

12. (Optional) Configure the plain text password.

```
[edit subscribers retailer default subscriber-folder local subscriber peter]
user@host# set plain-text-password
```

13. (Optional) Configure the maximum number of concurrent logins for subscribers associated with this subscriber definition.

```
[edit subscribers retailer default subscriber-folder local subscriber peter]
user@host# set maximum-login maximum-login
```


14. (Optional) Configure the timeout for subscriber sessions associated with this subscriber.

```
[edit subscribers retailer default subscriber-folder local subscriber peter]
user@host# set session-timeout session-timeout
```

15. (Optional) Configure the value that identifies the subscriber in accounting records; for a household subscriber, all subordinate subscribers generally use the same ID.

```
[edit subscribers retailer default subscriber-folder local subscriber peter]
user@host# set accounting-user-id accounting-user-id
```

16. (Optional) Assign service scopes to the subscriber.

```
[edit subscribers retailer default subscriber-folder local subscriber peter]
user@host# set scope [scope...]
```

17. (Optional) Configure the actual values for parameters associated with this subscriber.

```
[edit subscribers retailer default subscriber-folder local subscriber peter]
user@host# set substitution [substitution...]
```

18. (Optional) Verify your configuration.

```
[edit subscribers retailer default subscriber-folder local subscriber peter]
user@host# show
common-name psmith;
surname smith;
initials A;
anonymous;
ip-address 10.10.62.3;
interface-name fastethernet6/0.1@vrName@routerName;
encrypted-password abcdefh;
session-timeout 9000;
```

Configuring Administrative Information for Residential Subscribers

Use the following configuration statements to configure administrative information about the subscriber:

```
subscribers retailer name subscriber-folder folder-name subscriber name info {
  home-phone home-phone;
  additional-phone additional-phone;
  fax fax;
  e-mail e-mail;
  city city;
  street street;
  postal-code postal-code;
  language language;
  job job;
  description description;
}
```

To add administrative information about residential subscribers:

1. From configuration mode, enter the residential subscriber info configuration. In this procedure, peter is the name of the subscriber.

```
user@host# edit subscribers retailer default subscriber-folder local subscriber peter info
```

2. (Optional) Configure a home phone number for the subscriber.

```
[edit subscribers retailer default subscriber-folder local subscriber peter info]
user@host# set home-phone home-phone
```

3. (Optional) Configure a second phone number for the subscriber.

```
[edit subscribers retailer default subscriber-folder local subscriber peter info]
user@host# set additional-phone additional-phone
```

4. (Optional) Configure a fax number for the subscriber.

```
[edit subscribers retailer default subscriber-folder local subscriber peter info]
user@host# set fax fax
```

5. (Optional) Configure an e-mail address for the subscriber.

```
[edit subscribers retailer default subscriber-folder local subscriber peter info]
user@host# set e-mail e-mail
```

6. (Optional) Configure the city for the subscriber.

```
[edit subscribers retailer default subscriber-folder local subscriber peter info]
user@host# set city city
```

7. (Optional) Configure the street address for the subscriber.

```
[edit subscribers retailer default subscriber-folder local subscriber peter info]
user@host# set street street
```

8. (Optional) Configure the postal code for the subscriber.

```
[edit subscribers retailer default subscriber-folder local subscriber peter info]
user@host# set postal-code postal-code
```

9. (Optional) Configure the language of the subscriber.

```
[edit subscribers retailer default subscriber-folder local subscriber peter info]
user@host# set language language
```

10. (Optional) Configure the job description of the subscriber.

```
[edit subscribers retailer default subscriber-folder local subscriber peter info]
user@host# set job job
```

11. (Optional) Configure a description for the subscriber.

```
[edit subscribers retailer default subscriber-folder local subscriber peter info]
user@host# set description description
```

Adding Enterprises

Use the following configuration statements to add an enterprise subscriber:

```
subscribers retailer name subscriber-folder folder-name enterprise name {
  display-name display-name;
  accounting-user-id accounting-user-id;
  description description;
  scope [scope...];
  substitution [substitution...];
}
```

To add an enterprise subscriber:

1. From configuration mode, enter the enterprise subscriber configuration. In this procedure, ABCInc is the name of the enterprise subscriber.

```
user@host# edit subscribers retailer default subscriber-folder local enterprise  
ABCInc
```

2. (Optional) Configure the name that is displayed in enterprise management portals, if different from the enterprise name.

```
[edit subscribers retailer default subscriber-folder local enterprise ABCInc]  
user@host# set display-name display-name
```

3. (Optional) Configure the name that identifies the enterprise in accounting records.

```
[edit subscribers retailer default subscriber-folder local enterprise ABCInc]  
user@host# set accounting-user-id accounting-user-id
```

4. (Optional) Enter a description of the enterprise.

```
[edit subscribers retailer default subscriber-folder local enterprise ABCInc]  
user@host# set description description
```

5. (Optional) Assign service scopes to the enterprise.

```
[edit subscribers retailer default subscriber-folder local enterprise ABCInc]  
user@host# set scope [scope...]
```

6. (Optional) Configure the actual values for parameters associated with this enterprise.

```
[edit subscribers retailer default subscriber-folder local enterprise ABCInc]  
user@host# set substitution [substitution...]
```

7. (Optional) Verify your configuration.

```
[edit subscribers retailer default subscriber-folder local enterprise  
ABCInc]  
user@host# show  
display-name ABCInc;  
description "This enterprise is sample data for use with JUNOS routers.  
The attached EntJunose scope contains enterprise services that are designed  
to work with JUNOSe."
```

```
scope [ EntJunose POP-Ottawa POP-Boca POP-Boston POP-Montreal ];
substitution [ "acct : network = 208.93.36.80 / 28" "eng : network =
208.93.36.64 / 28" ];
```

8. Configure an access subscription for the enterprise. (See *Configuring Accesses* on page 292.)

Configuring Administrative Information for Enterprise Subscribers

Use the following configuration statements to configure administrative information about the enterprise subscriber:

```
subscribers retailer name subscriber-folder folder-name enterprise name info {
    phone phone;
    fax fax;
    po-box po-box;
    city city;
    street street;
    state state;
    postal-code postal-code;
}
```

To add administrative information about enterprise subscribers:

1. From configuration mode, enter the enterprise subscriber info configuration. For example:

```
user@host# edit subscribers retailer default subscriber-folder local enterprise
ABCInc info
```

2. (Optional) Configure a phone number for the subscriber.

```
[edit subscribers retailer default subscriber-folder local enterprise ABCInc info]
user@host# set phone phone
```

3. (Optional) Configure a fax number for the subscriber.

```
[edit subscribers retailer default subscriber-folder local enterprise ABCInc info]
user@host# set fax fax
```

4. (Optional) Configure a post office box for the subscriber.

```
[edit subscribers retailer default subscriber-folder local enterprise ABCInc info]
user@host# set po-box po-box
```

5. (Optional) Configure the city for the subscriber.

```
[edit subscribers retailer default subscriber-folder local enterprise ABCInc info]
user@host# set city city
```

6. (Optional) Configure the street address for the subscriber.

```
[edit subscribers retailer default subscriber-folder local enterprise ABCInc info]
user@host# set street street
```

7. (Optional) Configure a state for the subscriber.

```
[edit subscribers retailer default subscriber-folder local enterprise ABCInc info]
user@host# set state state
```

8. (Optional) Configure the postal code for the subscriber.

```
[edit subscribers retailer default subscriber-folder local enterprise ABCInc info]
user@host# set postal-code postal-code
```

Adding Sites

Use the following configuration statements to add a site:

```
subscribers retailer name subscriber-folder folder-name enterprise name site name {
  network [network...];
  display-name display-name;
  accounting-user-id accounting-user-id;
  description description;
}
```

To add a site:

1. From configuration mode, enter the site configuration. In this procedure, ABCInc is the name of the enterprise, and Montreal is the name of the site.

```
user@host# edit subscribers retailer default subscriber-folder local enterprise
ABCInc site Montreal
```

2. (Optional) Record networks used at the site. If you build a custom enterprise manager application, you can access this information through the enterprise portal APIs.

```
[edit subscribers retailer default subscriber-folder local enterprise ABCInc site
Montreal]
user@host# set network [network...]
```

3. (Optional) Configure the name that is displayed in enterprise management portals, if different from the site name.

```
[edit subscribers retailer default subscriber-folder local enterprise ABCInc site
Montreal]
user@host# set display-name display-name
```

4. (Optional) Configure the name that identifies the site in accounting records.

```
[edit subscribers retailer default subscriber-folder local enterprise ABCInc site
Montreal]
user@host# set accounting-user-id accounting-user-id
```

- (Optional) Enter a description of the site.

```
[edit subscribers retailer default subscriber-folder local enterprise ABCInc site
Montreal]
user@host# set description description
```

- (Optional) Verify your configuration.

```
[edit subscribers retailer default subscriber-folder local enterprise ABCInc
site Montreal]
user@host# show
display-name "Montreal Office of ABC, Inc.";
accounting-user-id abcInc;
description "This enterprise is sample data for use with JUNOS routers.";
```

- Configure an access for the site. (See *Configuring Accesses* on page 292.)

Adding Devices as Subscribers

Configure a device subscriber for subscriber sessions that manage the forwarding interface on JUNOS routing platforms and the router pseudo-subscriber on JUNOS routers.

You can add devices as subscribers to subscriber folders, enterprises, and sites. Use the following configuration statements to add a device as a subscriber:

```
subscribers retailer name subscriber-folder folder-name device device-name {
  display-name display-name;
  maximum-login maximum-login;
  accounting-user-id accounting-user-id;
  substitution [substitution...];
}
```

```
subscribers retailer name subscriber-folder folder-name enterprise name device
device-name {
  display-name display-name;
  maximum-login maximum-login;
  accounting-user-id accounting-user-id;
  substitution [substitution...];
}
```

```
subscribers retailer name subscriber-folder folder-name enterprise name site name
device device-name {
  display-name display-name;
  maximum-login maximum-login;
  accounting-user-id accounting-user-id;
  substitution [substitution...];
}
```

To add a device as a subscriber:

- From configuration mode, enter the device subscriber configuration. In this procedure, default@TMJunosA is the name of the device.

```
user@host# edit subscribers retailer SP-TM subscriber-folder devices device
default@TMJunosA
```

2. (Optional) Configure the name of the device as you want it to appear in SRC applications, such as portals.

```
[edit subscribers retailer SP-TM subscriber-folder devices device
default@TMJunosA]
user@host# set display-name display-name
```

3. (Optional) Configure the maximum number of concurrent logins for subscribers associated with this device.

```
[edit subscribers retailer SP-TM subscriber-folder devices device
default@TMJunosA]
user@host# set maximum-login maximum-login
```

4. (Optional) Configure the name that identifies the device in accounting records.

```
[edit subscribers retailer SP-TM subscriber-folder devices device
default@TMJunosA]
user@host# set accounting-user-id accounting-user-id
```

5. (Optional) Configure the actual values for parameters associated with this device.

```
[edit subscribers retailer SP-TM subscriber-folder devices device
default@TMJunosA]
user@host# set substitution [substitution...]
```

6. (Optional) Verify your configuration.

```
[edit subscribers retailer SP-TM subscriber-folder devices device
default@TMJunosA]
user@host# show
display-name "Profile for JUNOS router";
accounting-user-id JunosRouter
```

Adding Managers

Use the following configuration statements to configure a manager:

```
subscribers retailer name manager name {
  role [(administrator | subscription | substitution | activation | vpn)...];
  encrypted-password encrypted-password;
  plain-text-password;
  description description;
}
```

```
subscribers retailer name subscriber-folder folder-name manager name {
  role [(administrator | subscription | substitution | activation | vpn)...];
  encrypted-password encrypted-password;
  plain-text-password;
  description description;
}
```

```
subscribers retailer name subscriber-folder folder-name enterprise name manager
name {
```

```

        role [(administrator | subscription | substitution | activation | vpn)...];
        encrypted-password encrypted-password;
        plain-text-password;
        description description;
    }

subscribers retailer name subscriber-folder folder-name enterprise name site name
manager name {
    role [(administrator | subscription | substitution | activation | vpn)...];
    encrypted-password encrypted-password;
    plain-text-password;
    description description;
}

subscribers retailer name subscriber-folder folder-name enterprise name access name
manager name {
    role [(administrator | subscription | substitution | activation | vpn)...];
    encrypted-password encrypted-password;
    plain-text-password;
    description description;
}

subscribers retailer name subscriber-folder folder-name enterprise name site name
access name manager name {
    role [(administrator | subscription | substitution | activation | vpn)...];
    encrypted-password encrypted-password;
    plain-text-password;
    description description;
}

subscribers retailer name subscriber-folder folder-name device device-name manager
name {
    role [(administrator | subscription | substitution | activation | vpn)...];
    encrypted-password encrypted-password;
    plain-text-password;
    description description;
}

subscribers retailer name subscriber-folder folder-name enterprise name device
device-name manager name {
    role [(administrator | subscription | substitution | activation | vpn)...];
    encrypted-password encrypted-password;
    plain-text-password;
    description description;
}

subscribers retailer name subscriber-folder folder-name enterprise name site name
device device-name manager name {
    role [(administrator | subscription | substitution | activation | vpn)...];
    encrypted-password encrypted-password;
    plain-text-password;
    description description;
}

```


To add a manager:

1. From configuration mode, enter the manager configuration. In this procedure, we are creating a manager called `abcmgr` in the ABCInc enterprise.

```
user@host# edit subscribers retailer default subscriber-folder local enterprise  
ABCInc manager abcmgr
```

2. (Optional) Configure the privilege level (role) for the manager.

```
[edit subscribers retailer default subscriber-folder local enterprise ABCInc manager  
abcmgr]  
user@host# set role [(administrator | subscription | substitution | activation |  
vpn)...
```

3. (Optional) Configure an encrypted password for the manager:

```
[edit subscribers retailer default subscriber-folder local enterprise ABCInc manager  
abcmgr]  
user@host# set encrypted-password encrypted-password
```

4. (Optional) Configure a plain text password for the manager.

```
[edit subscribers retailer default subscriber-folder local enterprise ABCInc manager  
abcmgr]  
user@host# set plain-text-password plain-text-password
```

5. (Optional) Enter a description for the manager.

```
[edit subscribers retailer default subscriber-folder local enterprise ABCInc manager  
abcmgr]  
user@host# set description description
```

6. (Optional) Verify your configuration.

```
[edit subscribers retailer default subscriber-folder local enterprise ABCInc  
manager abcmgr]  
user@host# show  
role administrator;  
encrypted-password secret;
```

Configuring Subscriptions

After you add subscribers, you configure subscriptions for the subscribers. Residential or enterprise subscribers may also be able to configure subscriptions through the portal, and managers assigned to a subscriber object may be able to configure subscriptions for that object.

You must add a service to the directory before you can specify that service for subscribers. See *SRC-PE Services and Policies Guide, Chapter 1, Managing Services with the SRC CLI*.

After you configure a subscription to a service, the service is available to the subscriber through the portal. Depending on the configuration, the subscriber may need to activate the service. You can configure schedules to define when services are available to subscribers. See *SRC-PE Services and Policies Guide, Chapter 4, Scheduling Services with the SRC CLI*.

```
subscribers retailer name subscription subscription-name {
    status (active | suspended | hidden);
    activation (manual | automatically-on-login);
    activation-order activation-order;
    substitution [substitution...];
}
```

```
subscribers retailer name subscriber-folder folder-name subscription subscription-name
{
    status (active | suspended | hidden);
    activation (manual | automatically-on-login);
    activation-order activation-order;
    substitution [substitution...];
}
```

```
subscribers retailer name subscriber-folder folder-name subscriber name subscription
subscription-name {
    status (active | suspended | hidden);
    activation (manual | automatically-on-login);
    activation-order activation-order;
    substitution [substitution...];
}
```

```
subscribers retailer name subscriber-folder folder-name enterprise name subscription
subscription-name {
    status (active | suspended | hidden);
    activation (manual | automatically-on-login);
    activation-order activation-order;
    substitution [substitution...];
}
```

```
subscribers retailer name subscriber-folder folder-name enterprise name site name
subscription subscription-name {
    status (active | suspended | hidden);
    activation (manual | automatically-on-login);
    activation-order activation-order;
    substitution [substitution...];
}
```

```

subscribers retailer name subscriber-folder folder-name enterprise name access name
subscription subscription-name {
    status (active | suspended | hidden);
    activation (manual | automatically-on-login);
    activation-order activation-order;
    substitution [substitution...];
}

```

```

subscribers retailer name subscriber-folder folder-name device device-name
subscription subscription-name {
    status (active | suspended | hidden);
    activation (manual | automatically-on-login);
    activation-order activation-order;
    substitution [substitution...];
}

```

```

subscribers retailer name subscriber-folder folder-name enterprise name device
device-name subscription subscription-name {
    status (active | suspended | hidden);
    activation (manual | automatically-on-login);
    activation-order activation-order;
    substitution [substitution...];
}

```

```

subscribers retailer name subscriber-folder folder-name enterprise name site name
device device-name subscription subscription-name {
    status (active | suspended | hidden);
    activation (manual | automatically-on-login);
    activation-order activation-order;
    substitution [substitution...];
}

```

To configure a subscription to a service:

1. From configuration mode, enter the subscription configuration. In this procedure, peter is the name of the subscriber and Video-Gold is the name of the subscription.

```

user@host# edit subscribers retailer default subscriber-folder local subscriber
peter subscription Video-Gold

```

2. (Optional) Configure the status of the service subscription.

```

[edit subscribers retailer default subscriber-folder local subscriber peter
subscription Video-Gold]
user@host# set status (active | suspended | hidden)

```

3. (Optional) Specify how the service is activated.

```

[edit subscribers retailer default subscriber-folder local subscriber peter
subscription Video-Gold]
user@host# set activation (manual | automatically-on-login)

```

4. (Optional) Specify when the SAE should activate this subscription relative to the subscriber's other subscriptions that are configured to activate on login.

```
[edit subscribers retailer default subscriber-folder local subscriber peter
subscription Video-Gold]
user@host# set activation-order activation-order
```

5. (Optional) Configure the actual values for parameters associated with this subscription.

```
[edit subscribers retailer default subscriber-folder local subscriber peter
subscription Video-Gold]
user@host# set substitution [substitution...]
```

6. (Optional) Verify your configuration.

```
[edit subscribers retailer default subscriber-folder local subscriber peter
subscription Video-Gold]
user@host# show
status active;
activation manual;
```

Allowing Multiple Subscriptions per Subscriber

To allow a subscriber to have a number of subscriptions to a service at the same time, each subscription:

- Must have its own parameter substitutions.
- Can be activated or deactivated independently.

An object for each subscription is created in the directory. The name of the object has the following format:

<ServiceName>%<SubscriptionId>

- <ServiceName> —Name of the service
- <SubscriptionId> —Name of the subscription

Other than the naming convention, multiple subscriptions are identical to regular subscriptions.

Configuring Accesses

You must configure an access for an enterprise or a site. An access determines the way that the enterprise or site accesses Internet services, and specifies a set of services that are available to the particular access.

Subscriber classification scripts can use access subscription properties to match the interface in the network with an access in the directory. Typically, the interface alias, interface description, interface name, unique ID, NAS port ID, and router name are used to match an interface to an access.

You can specify multiple accesses; for example, you might want to specify primary and secondary services for Internet access.

```
subscribers retailer name subscriber-folder folder-name enterprise name access name
{
    routing-protocol routing-protocol;
    interface-alias interface-alias;
    interface-description interface-description;
    interface-name interface-name;
    unique-id unique-id;
    port-id port-id;
    device-name device-name;
    display-name display-name;
    accounting-user-id accounting-user-id;
    substitution [substitution...];
}
```

```
subscribers retailer name subscriber-folder folder-name enterprise name site name
access name {
    routing-protocol routing-protocol;
    interface-alias interface-alias;
    interface-description interface-description;
    interface-name interface-name;
    unique-id unique-id;
    port-id port-id;
    device-name device-name;
    display-name display-name;
    accounting-user-id accounting-user-id;
    substitution [substitution...];
}
```

To configure a subscription to an access service:

1. From configuration mode, enter the subscription configuration. In this procedure, Acme is the name of the enterprise and AcmeAccess is the name of the access.

```
user@host# edit subscribers retailer SP-TM subscriber-folder subscribers  
enterprise Acme access AcmeAccess
```

2. (Optional) Record routing protocols used at the enterprise or site. If you build a custom enterprise manager application, you can access this information through the enterprise portal APIs.

```
[edit subscribers retailer SP-TM subscriber-folder subscribers enterprise Acme  
access AcmeAccess]  
user@host# set routing-protocol routing-protocol
```

3. (Optional) Configure the description of a router interface.

```
[edit subscribers retailer SP-TM subscriber-folder subscribers enterprise Acme  
access AcmeAccess]  
user@host# set interface-alias interface-alias
```

4. (Optional) Configure the alternate name of the interface that SNMP uses.

```
[edit subscribers retailer SP-TM subscriber-folder subscribers enterprise Acme
access AcmeAccess]
user@host# set interface-description interface-description
```
5. (Optional) Configure the name of the interface using your router CLI syntax

```
[edit subscribers retailer SP-TM subscriber-folder subscribers enterprise Acme
access AcmeAccess]
user@host# set interface-name interface-name
```
6. (Optional) Configure the router's unique ID, which is the index of the router in the SNMP table for all interfaces.

```
[edit subscribers retailer SP-TM subscriber-folder subscribers enterprise Acme
access AcmeAccess]
user@host# set unique-id unique-id
```
7. (Optional) Configure the network access server (NAS) port ID reported by the JUNOS router through the Common Open Policy Service (COPS).

```
[edit subscribers retailer SP-TM subscriber-folder subscribers enterprise Acme
access AcmeAccess]
user@host# set port-id port-id
```
8. (Optional) Configure the name of the router to which this access connects.

```
[edit subscribers retailer SP-TM subscriber-folder subscribers enterprise Acme
access AcmeAccess]
user@host# set router-name router-name
```
9. (Optional) Configure the name that is displayed in enterprise management portals, if different from the service name.

```
[edit subscribers retailer SP-TM subscriber-folder subscribers enterprise Acme
access AcmeAccess]
user@host# set display-name display-name
```
10. (Optional) Configure the value that identifies the service in accounting records.

```
[edit subscribers retailer SP-TM subscriber-folder subscribers enterprise Acme
access AcmeAccess]
user@host# set accounting-user-id accounting-user-id
```
11. (Optional) Configure the actual values for parameters associated with this subscription.

```
[edit subscribers retailer SP-TM subscriber-folder subscribers enterprise Acme
access AcmeAccess]
user@host# set substitution [substitution...]
```

12. (Optional) Verify your configuration.

```
[edit subscribers retailer SP-TM subscriber-folder subscribers enterprise  
Acme access AcmeAccess]  
user@host# show  
interface-alias cust123-456;  
interface-name fastethernet6/0.1;
```

