

Example: Using the Sample Packet-Mirroring Application

To use the sample packet-mirroring application:

1. Download the SRC sample applications to your system from the Juniper Networks Web site:

<http://www.juniper.net/support/csc/swdist-erx/src.html>

2. Locate the file that contains the service definition:

`/SDK/scriptServices/packetMirroring/ldif/service.ldif`

3. Import the sample service definition to the Juniper Networks Database on the C-series Controller. To load the sample data into the database, you can use an LDAP tool, such as **ldapadd**.

You can obtain **ldapadd** from the following Web site:

<http://www.openldap.org/>

To load data into the Juniper Networks database, you need the IP address of the database and the database credentials. The default bind distinguished name (DN) for the database is `cn = umcadmin, o = umc` and the password is `admin123`.

4. Copy the `/lib/pm.jar` file used by the script service to the `/opt/UMC/sae /var/run` directory on the C-series Controller.
5. Modify the service substitutions for your environment.

You can make these substitutions by defining the parameter substitutions in the `packetMirroring` service (`serviceName = packetMirroring, o = Services, o = umc`) with the SRC CLI or by passing the values through the SAE core API.

For information about parameter substitutions, see *Configuring Parameters for the Script Service for Packet Mirroring*. For information about passing the values through the SAE core API, see *Defining RADIUS Attributes for Dynamic Authorization Requests with the SAE Core API*.

6. Configure a subscription to the `packetMirroring` service that is activated on login.

For information about subscriptions, see *Overview of Subscriptions*.

7. If you are modifying the sample application, copy the `sae.jar` and `logger.jar` files from the `SKD/lib` directory, and add the `sae.jar` and `logger.jar` files to the classpath when you compile your application.

Example: Packet Mirroring for PPP Subscribers

When a PPP subscriber is subscribed to the packet-mirroring service, configure the service as an activate-on-login service at user connection time. After the subscriber has logged in through the SAE remote API, the packet-mirroring service can be subscribed to the PPP subscriber and activated. When the service is activated, a CoA request is sent to the JUNOS router that includes the PPP subscriber's accounting session ID to start packet mirroring for this subscriber.

Example: Packet Mirroring for DHCP Subscribers

When a DHCP subscriber is subscribed to the packet-mirroring service, configure the service as an activate-on-login service at user connection time. After the subscriber has logged in through the SAE remote API, the packet-mirroring service can be subscribed to the DHCP subscriber and activated. When the service is activated, a CoA request is sent to the JUNOSe router that includes the DHCP subscriber's IP address and virtual router name for the JUNOSe router to start packet mirroring for this subscriber.

Configuring DHCP Subscriber Sessions

You can use DHCP option 82 to identify the subscriber session. For example, if you set DHCP option 82 as the user login name, an external application can use this setting to search for the subscriber session. The following subscriber classification script illustrates this example:

```
[<name=default>=<user=UNC?login=<dhcp82subopts[1]sing>sub?interfaceName=<dhcp82subopts[1]sing>]
loginType = " ADDR"
[<-retailerDN->??sub?(uniqueID=<-userName->)]
retailerDN != " "
& userName != " "
[<-unauthenticatedUserDn->]
loginType == "ADDR"
loginType == "AUTHADDR"
```

Disabling RADIUS Authentication for DHCP Subscribers

Packet mirroring for DHCP subscribers does not involve RADIUS authentication, so you might have to configure authentication to grant all IP subscriber management interfaces access without authentication. For example, configure the JUNOSe router with the following authentication:

```
aaa authentication ip default none
```

You can still configure other subscribers to use RADIUS authentication. For example, configure the JUNOSe router with the following authentication for PPP subscribers:

```
aaa authentication ppp default radius
```

- Related Topics**
- Overview of Packet Mirroring Services
 - Configuring Packet-Mirroring Support in an SRC Network