



CHAPTER 2

Installing the SCE-Sniffer DHCP LEG

This module describes the procedures for installing, uninstalling, and upgrading the SCE-Sniffer DHCP LEG on the SM.

How to Install, Uninstall, and Upgrade the SCE-Sniffer DHCP LEG

This module describes the procedures for installing, uninstalling, and upgrading the SCE-Sniffer DHCP LEG on the SM.

The SCE-Sniffer DHCP LEG is an external component (PQI file) of the SM software and should be installed separately using the SM Command-Line Utility (CLU). The SCE-Sniffer DHCP LEG distribution is part of the SM LEG distribution.

The installation package of the LEG includes a set of configuration files and CLU commands for the SCE-Sniffer DHCP LEG.

- [Installing the SCE-Sniffer DHCP LEG, page 2-1](#)
- [Uninstalling the SCE-Sniffer DHCP LEG, page 2-3](#)
- [Upgrading the SCE-Sniffer DHCP LEG, page 2-3](#)

Installing the SCE-Sniffer DHCP LEG

Prerequisites

Verify that the Service Control Application for Broadband (SCA BB) is installed on all SM and SCE devices. If not, install the application as described in the *Cisco Service Control Application for Broadband User Guide* .

-
- Step 1** Install the PQI file of the SCE-Sniffer DHCP LEG
- a. Run the **p3inst** command-line utility (CLU) from the SM CLU directory **~pcube/sm/server/bin**

Example:

```
>p3inst --install -f dhcpsnif.pqi
```

**Note**

After the installation of the PQI file, the Subscriber Manager restarts automatically.

Step 2 Edit the SCE-Sniffer DHCP LEG configuration files.

The SCE-Sniffer DHCP LEG includes two configuration files under `~pcube/sm/server/root/config` :

- **dhcpsnif.cfg** —Configures general attributes of the LEG
- **dhcp_pkg.cfg** —Configures rules for package assignment

**Note**

It is recommended to familiarize yourself with these files immediately after the first installation and edit them according to your specific needs. See [Configuring the SCE-Sniffer DHCP LEG, page 3-1](#) for more information.

Step 3 Load the configuration files to the SM using the **p3sm** CLU

Run the **p3sm** command line utility from the SM CLU.

This command-line utility loads the new configuration to the SM and activates it.

Example:

```
>p3sm --load-config
```

Step 4 Configure the SCE to send RDRs to the LEG

Run the RDR-formatter CLI on the SCE platform to add the LEG as a category 3 RDR destination. You must use the same port number as defined by the RDR server in the SM. The default port number is 33001.

**Note**

To support SM cluster topology, set the cluster VIP as the SM-IP in the following CLI.

```
SCE2000>configure
SCE2000(config)>RDR-formatter destination SM-IP port port category number 3 priority 100
SCE2000(config)>exit
```

Uninstalling the SCE-Sniffer DHCP LEG

- Step 1** Remove the configuration of the RDR-formatter.
- Run the RDR-formatter CLI on the SCE platform to remove the LEG as a category 3 RDR destination:
- ```
SCE2000>configure
SCE2000 (config)>no RDR-formatter destination SM-IP port port
SCE2000 (config)>exit
```
- Step 2** Uninstall the SCE-Sniffer DHCP LEG by running the **p3inst** CLU

### Example:

```
>p3inst --uninstall -f dhcpsnif.pqi
```



**Note** After the uninstall process, the SM restarts automatically.

## Upgrading the SCE-Sniffer DHCP LEG

The SCE-Sniffer DHCP LEG and SM versions must be identical; therefore, the SCE-Sniffer DHCP LEG must be upgraded as part of the SM upgrade process. The upgrade for the SCE-Sniffer DHCP LEG should be performed together with the upgrade process of the SM.

- Step 1** Backup the configuration files of the SCE-Sniffer DHCP LEG.
- The original configuration files are deleted by the uninstall process in the next step.
- Step 2** Force the SCEs to store the RDRs during the upgrade.
- To force the SCEs to store the RDRs, disable the RDR Server on the SM by setting the **start** parameter in the RDR Server section to **false** and loading the configuration by running the following CLU:
- ```
>p3sm --load-config
```
- Step 3** Uninstall the SCE-Sniffer DHCP LEG by running the **p3inst** CLU

Example:

```
>p3inst --uninstall -f dhcpsnif.pqi
```



Note After the uninstall process has successfully completed, the SM automatically restarts.

- Step 4** Perform an upgrade of the SM
- The SM upgrade procedure is described in the *Cisco SCMS Subscriber Manager User Guide*.
- Step 5** Install the new version of the SCE-Sniffer DHCP LEG by running the **p3inst** CLU

Example:

```
>p3inst --install -f dhcpsnif.pqi
```

- Step 6** Restore the configuration files of the SCE-Sniffer DHCP LEG.
- Step 7** To make the SCEs send the RDRs that they stored during the upgrade, enable the RDR Server on the SM by setting the start parameter in the RDR Server section to true.
- Step 8** Load the new configuration of the SM by running the **p3sm** CLU

Example:

```
>p3sm --load-config
```
