



CHAPTER 10

DHCP Forwarder Application

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Introduction

This chapter describes how to install the DHCP forwarder application as well as adding and removing resources.



Note

This module is only relevant when the DHCP Lease Query Login Event Generator (LEG) is installed on the subscriber manager server.

The DHCP Forwarder application acts as a bridge between the DHCP Lease Query LEG and the DHCP servers. The LEG sends a request to the DHCP Forwarder, which then forwards the request to the appropriate DHCP server. The DHCP Forwarder passes the replies from the DHCP servers to the LEG. The LEG signals the forwarder which server should receive each request. Therefore, no special configuration is needed for this application.

Because only root privileged applications can open ports under 1024 (DHCP uses ports 67 and 68), the DHCP Forwarder runs with root privileges.

- [Installing the DHCP Forwarder, page 10-1](#)
- [Uninstalling the DHCP Forwarder, page 10-2](#)
- [DHCP Forwarder Veritas Cluster Server Agent, page 10-2](#)

Installing the DHCP Forwarder

Step 1 Run the DHCP Forwarder installation script from the SM DIST root directory.

You must run the DHCP Forwarder installation script as **root**.

```
#!/install-forwarder.sh
```

The installation script extracts the DHCP Forwarder distribution to the *sm-inst-dir* \sm\server\addons\dhcp-forwarder directory (*sm-inst-dir* refers to the SM installation directory). The script adds the initialization scripts to their location according to the machine's OS.

Step 2 Run the DHCP Forwarder application.

The DHCP Forwarder application can be run using one of the following methods:

- Restart the machine. The initialization script will start the application automatically.
- Run the following command as **root**:

```
#/etc/init.d/p3dhcpforwarder start
```



Note

It is not possible to run the script if the `/etc/motd` file exists. The file should be moved *or* removed prior to running the `install-forwarder.sh` script.

Uninstalling the DHCP Forwarder

Step 1 Stop the DHCP Forwarder application.

Run the following command as **root** to stop the application.

```
#/etc/init.d/p3dhcpforwarder stop
```

Step 2 Remove the DHCP Forwarder application startup and shutdown scripts.

Run the following command as **root** to remove the startup and shutdown scripts.

- For Solaris:

```
# rm /etc/rc*.d/[SK]*p3dhcpforwarder
# rm /etc/init.d/p3dhcpforwarder
```

- For Red Hat:

```
# rm /etc/rc.d/rc*.d/[SK]*p3dhcpforwarder
# rm /etc/rc.d/init.d/p3dhcpforwarder
```

Step 3 Remove the DHCP Forwarder application directory.

Run the following command to remove the application.

```
# rm -r ~pcube/sm/server/addons/dhcp-forwarder
```

DHCP Forwarder Veritas Cluster Server Agent

To verify that the DHCP Forwarder process is active at all times, a Veritas Cluster Server (VCS) Agent of type *OnOnlyProcess* is added as a resource.

- [Adding a DHCP Forwarder Resource, page 10-3](#)
- [Removing a DHCP Forwarder Resource, page 10-4](#)

Adding a DHCP Forwarder Resource

- Step 1** Import the OnOnlyProcess agent's type from the `/opt/VRTSvcs/bin/OnOnlyProcess/OnOnlyProcess.cf` file.
- Step 2** Add an OnOnlyProcess resource called `DHCP_Forwarder` to the service group.
- Step 3** Note the path and arguments of the DHCP Forwarder.

Run the following command via a Telnet session on each of the servers:

```
>ps -ea -o pid,s,args
```

Look for the line containing the text “DHCP_FORWARDER”. This line contains the path and arguments of the DHCP Forwarder to be used in the next step.

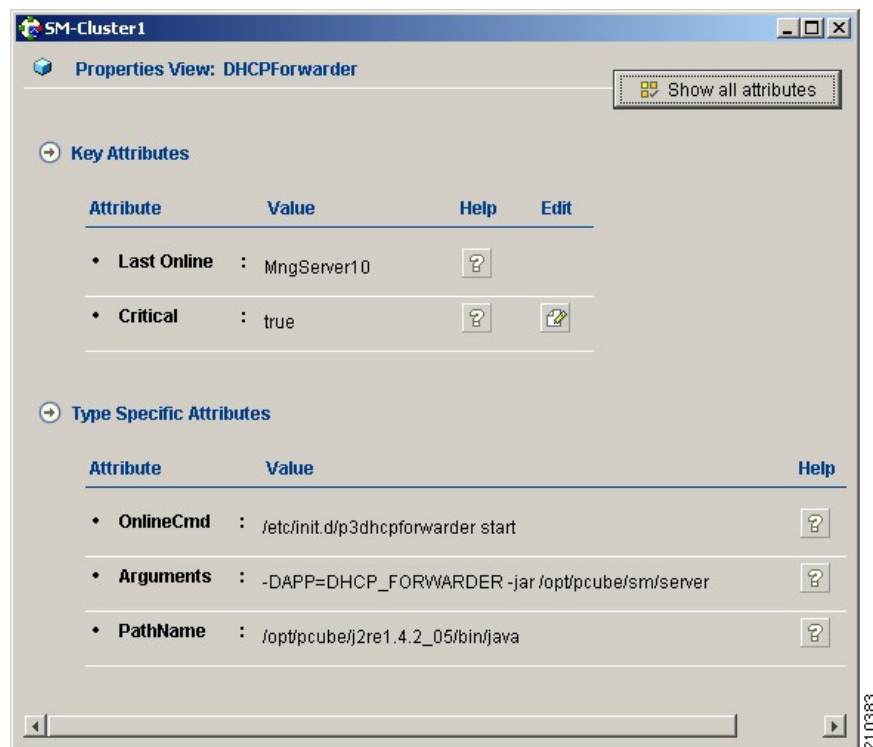
- Step 4** Define the **OnlineCmd**, **PathName**, and **Arguments** parameters.

Define the parameters as follows:

- **OnlineCmd**—Type the DHCP Forwarder start command:
`/etc/init.d/p3dhcpforwarder start`
- **PathName**—Type the DHCP Forwarder process path (from the previous step). For example:
`/opt/pcube/j2re1.4.2_05/bin/java`
- **Arguments**—Type the DHCP Forwarder process arguments (from the previous step). For example:
`DAPP=DHCP_FORWARDER -jar /opt/pcube/sm/server.`

For further information about the parameters, see [Figure 10-1](#).

Figure 10-1 Adding a DHCP Forwarder Resource



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**Note**

The arguments line might seem shorter than the actual full argument list. This is perfectly acceptable.

Removing a DHCP Forwarder Resource

- Step 1** Right-click on the DHCP Forwarder Resource icon and choose **Delete** from the drop-down menu (Figure 10-2).

Figure 10-2 Removing a DHCP Forwarder Resource

