Adding a DPE

This chapter describes how to add a Cisco Broadband Access Center (BAC) Device Provisioning Engine (DPE) from the CLI and the GUI.

This situation arises largely in a lab deployment, where, for the purposes of testing, both BAC components are installed on a single machine.

Note Before you proceed to add the DPE, ensure that the RDU and the DPE belong to the BAC 3.5 version.

When the installation program detects the presence of an RDU on your system, it does not provide you the option to add the RDU. It prompts you to add or install only the DPE.

Note To ensure a smooth installation, we recommend that you install the RDU before you install the DPE. (see the Installing BAC, page 3-2).

Unlike the procedure in a fresh installation, while adding a DPE, you cannot install the home (*BPR_HOME*) and data (*BPR_DATA*) directories in a location of your choice. The directories are installed only in the location where you chose to install the RDU directories.

You can add the DPE using the GUI or the CLI.

This section explains the procedures that you follow to add a DPE from the CLI or GUI:

- Adding a DPE from the CLI, page 4-1
- Adding a DPE from the GUI, page 4-3

Adding a DPE from the CLI

To add the DPE from the CLI:

Step 1 Log in to the computer on which you intend to install BAC components, with *root access*. Use an X-Window client to log in.

Step 2 At the Solaris system prompt, change directory to your CD-ROM drive or other installation media. The installation program, *setup.bin*, is at the root of this drive.

Step 3 Enter the following command to start the installation program:

```
> ./setup.bin -console
```

Step 4 The installation program verifies that you have installed the correct patches to the Solaris operating system. When the verification is complete, the program displays welcome screen. Press **Enter** to continue.

Step 5 When the installation program prompts you to select one or more components, enter **y** and press **Enter** at the DPE prompt. The installation program prompts you to add only the DPE.

For example:

```
Installation Components

Select one or more components to install BAC.

    Device Provisioning Engine (DPE) (y/n/?) [no] y
```

Step 6 Confirm the components that you want to install; enter **y** and press **Enter** to continue.

Step 7 The program displays a message that it is starting individual component validation. Press **Enter** to continue.

Step 8 When validation is complete, the program prompts you to enter the IP address and the listening port of the RDU. Press **Enter** to accept the hostname of the RDU.

> **Note** The installation program obtains the IP address of the RDU automatically. You do not need to enter this value.

Step 9 To accept the default port number, 49187, press **Enter**; or enter another port number.

> **Caution** If you change the default listening port value, ensure that the new value does not conflict with any existing port assignments. Also, ensure that you configure all DPEs with the correct RDU port number. Refer to the *Cisco Broadband Access Center Administrator's Guide, Release 3.5,* for information on configuring the DPE.

For example:

```
Regional Distribution Unit Host/Port

Enter the IP address and the listening port of the Regional Distribution Unit (RDU)
associated with this installation.

Enter the Host/IP address and address of the listening port
for the RDU.
    RDU IP Address [abc.xyz.com]
    RDU Listening Port [49187]
```

Step 10 Then, confirm the IP address and the listening port number; enter **y** and press **Enter**.

Step 11 The program prompts you to enter the shared secret password. Enter the password that you want to use for authentication between the BAC servers, and press **Enter**.

> **Note** You must use the same shared secret password for all RDUs and DPEs in your network. The default password is **secret**.

For example:

```
Shared Secret Password

Enter the password to be used for authentication
```

```
                     between the BAC servers.

                     If you are performing a lab installation, then the password will be used for all the
                     servers. If this is a component installation, then the password you enter must be the same
                     as the components previously installed.

                         Enter the Shared Secret Password [secret]
```

Step 12   Press **Enter** to continue. The installation parameters that you selected appear. Enter **y** and press **Enter** to confirm the parameters, and add the DPE.

For example:

```
Installation Parameters

This screen shows the installation parameters that you have chosen:

========== Confirmation ==========
The Component Installation will use the following parameters
to install the DPE component:

    Home directory: /opt/CSCObac
    Data directory: /var/CSCObac
```

Step 13   The Installation Summary appears when the installation is complete. Press **Enter** to exit the installation program.

Adding a DPE from the GUI

To add the DPE from the GUI:

Step 1   Log in to the computer that you intend to install the BAC components, with *root* access. Use an X-Windows client to log in.

Step 2   At the Solaris system prompt, navigate to the directory that contain the *setup.bin* file. If you are using the BAC CD-ROM, you will find *setup.bin* at the root of your CD-ROM drive.

Step 3   Enter the following command to start the installation program:

> **./setup.bin**

The installation program verifies that you have installed the correct patches on the Solaris operating system. When the verification is complete, the program displays welcome screen.

Step 4   Click **Next**. The Installation Components screen appears.

Step 5   On the Installation Components screen, select the Device Provisioning Engine option. Click **Next**. The installation program detects the installed components and allows you to add only the DPE.

Step 6   The installation program performs some validation before displaying the Regional Distribution Unit Host/Port screen. Accept the hostname of the RDU.
You do not need to enter the IP address of the RDU; the installation program obtains that value automatically.

Step 7   Accept the default port number, 49187, or enter a new port number. Click **Next**.

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Caution   If you change the default listening port value, ensure that the new value does not conflict with any existing port assignments. Also, ensure that you configure all DPEs with the correct RDU port number. See *Cisco Broadband Access Center Administrator's Guide, Release 3.5,* for information on configuring the DPE.

Step 8   The Shared Secret Password screen appears. Enter the shared secret password, and confirm it. Click **Next**.

Step 9   The Installation Parameters screen appears. After verifying that the parameters are correct, click **Next** to install the DPE. To change the parameters, click **Back**.

Step 10   When installation is complete, the Installation Summary screen appears. Click **Finish** to end the installation process and to exit the installation program.