



Using the Broadband Provisioning Registrar Administrator User Interface

This chapter describes the administration activities performed using the Broadband Provisioning Registrar (BPR) administrator user interface. These activities mainly involve monitoring the actions of various BPR components including:

- [Managing Users, page 3-1](#)
- [Searching For and Viewing Device Information, page 3-6](#)
- [Viewing BPR Servers, page 3-16](#)



Note

The procedures described in this chapter are presented in a tutorial manner. Wherever possible, examples are included to illustrate the possible results of each procedure.

Managing Users

Managing users involves adding, modifying, and deleting users who administer BPR. The following procedures include illustrated examples to demonstrate these functions. For example purposes, let us assume that:

- A new user named User_2 is added. (See the [“Adding a New User”](#) section on page 3-1.)
- The password is modified. (See the [“Modifying Users”](#) section on page 3-3.)
- The user named User_2 is deleted. (See the [“Deleting Users”](#) section on page 3-5.)



Note

The adding, modifying, and deleting user functions can only be performed by a user who is logged in as the Administrator.

Adding a New User

Adding a new user is a simple process of entering the user’s name and creating a password. To add a new user:

-
- Step 1** Click **Users**, from either the Main Menu or the Primary Navigation bar, and the Manage Users page appears. (See [Figure 3-1](#).)

Figure 3-1 Example Manage Users Page

User	Description	Delete
admin	Administrator	
user_1	Head Administrator	

59644

Step 2 Click **Add** and the Add User page appears. (See Figure 3-2.)

Figure 3-2 Add User Page

59645

Step 3 Enter the new user's username and a password. In this example, the username is User_2.

Step 4 Confirm the new user's password and enter a description of the new user.

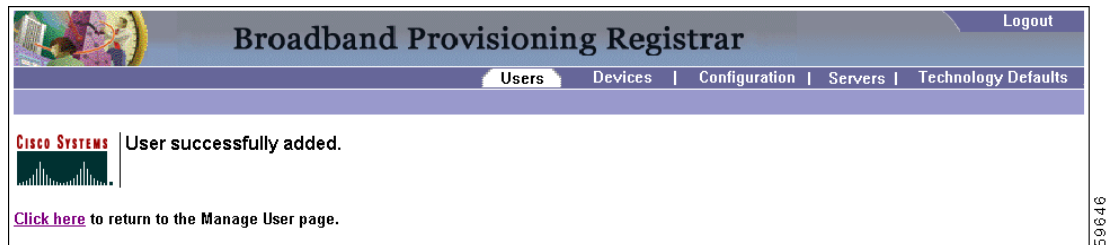


Tip

Use the description field to identify the user's job or position; something that identifies the unique aspects of the new user.

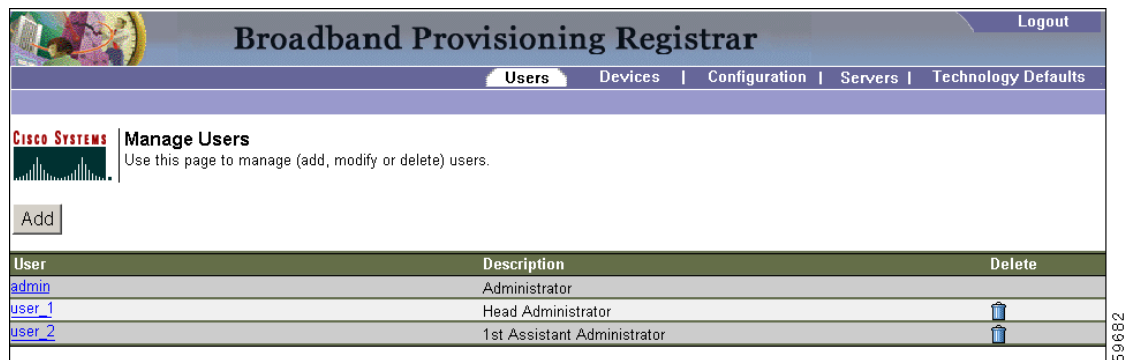
Step 5 Click **Submit** when complete. Once the new user is added to the administrative database, the User Successfully Added page appears. (See Figure 3-3.)

Figure 3-3 User Successfully Added Page



- Step 6 Click the link indicated in Figure 3-3, and the Manage Users page appears with the new user added. (See Figure 3-4.)

Figure 3-4 Manage Users Page With A New User Added



After completing this procedure you will see that a new user has been added. It should be noted however, that the new user's password must be recorded and stored in a safe place. This helps to prevent the loss or theft of the password and possible unauthorized entry.

Modifying Users

You can modify both the password and description of any user entered into the administrative database. Changes to the password and description are the only modifications allowed.



Note

Any nonadministrative user that is created in this application cannot be used to modify or delete the admin user. (See Figure 3-4.)

To modify user properties:

- Step 1 Click **Users**, from either the Main Menu or the Primary Navigation bar, and a Manage User page, similar to that shown in Figure 3-5, appears.

Figure 3-5 Example Manage Users Page

The screenshot shows the 'Manage Users' page. At the top, there is a navigation bar with 'Users' selected. Below the navigation bar, the page title is 'Manage Users' with a sub-instruction: 'Use this page to manage (add, modify or delete) users.' There is an 'Add' button. Below this is a table with three columns: 'User', 'Description', and 'Delete'. The table contains three rows: 'admin' (Administrator), 'user_1' (Head Administrator), and 'user_2' (1st Assistant Administrator). The 'Delete' column has trash icons for 'user_1' and 'user_2'.

User	Description	Delete
admin	Administrator	
user_1	Head Administrator	
user_2	1st Assistant Administrator	

Step 2 Click the link corresponding to the desired user and the Modify User page appears. (See Figure 3-6.)

Figure 3-6 Modify User Page

The screenshot shows the 'Modify User' page. At the top, there is a navigation bar with 'Users' selected. Below the navigation bar, the page title is 'Modify User' with a sub-instruction: 'Use this page to modify user properties. Fields marked with an asterisk "*" are required.' Below this is a form with the following fields: 'User Name*' (value: user_2), 'New Password*' (empty), 'Confirm New Password*' (empty), and 'Description:' (value: Assistant Administrator). At the bottom of the form are 'Submit' and 'Reset' buttons.

Step 3 Make the necessary changes to either the password or user's description.

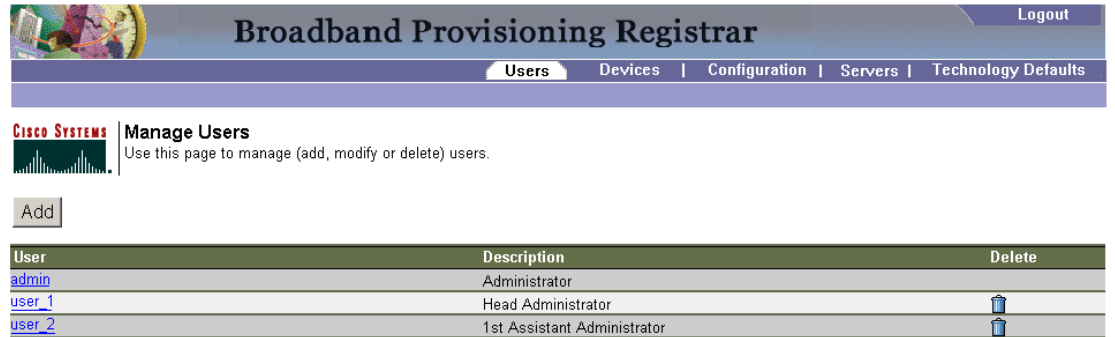
Step 4 Click **Submit** when complete. Once the modifications are copied into the administrative database, the User properties have been modified page appears. (See Figure 3-7.)

Figure 3-7 User Properties Modified Page

The screenshot shows the 'User Properties Modified' page. At the top, there is a navigation bar with 'Users' selected. Below the navigation bar, the page title is 'User properties have been modified.' Below this is a message: 'Click here to return to the Manage User page.'

- Step 5 Click the link indicated in [Figure 3-7](#), and the Manage Users page appears with the appropriately modified user description. (See [Figure 3-8](#).)

Figure 3-8 Manage Users Page With A Modified User Added



59650

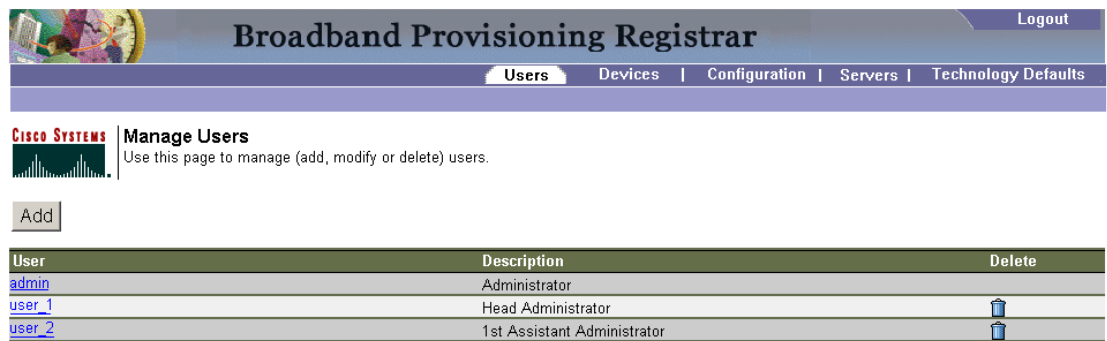
After completing this procedure, you will see that the user description has been changed.

Deleting Users

You can delete any user, except an administrator, that appears in the Manager Users page. To delete a user:

- Step 1 Click **Users**, from either the Main Menu or the Primary Navigation bar, and a Manage User page, similar to that shown in [Figure 3-9](#), appears.

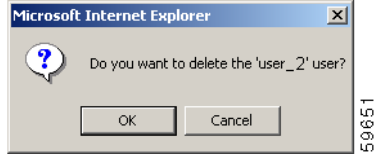
Figure 3-9 Example Manage Users Page



59647

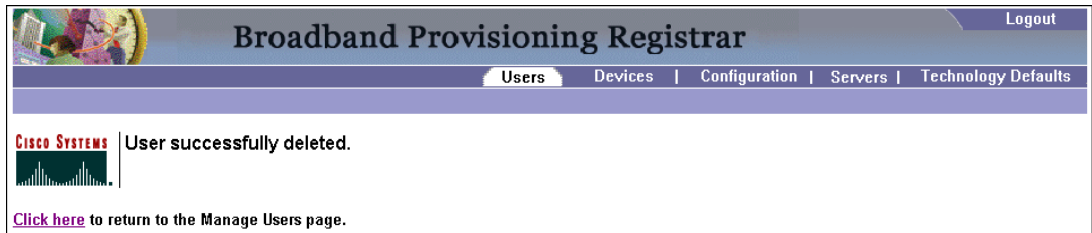
- Step 2 Click the **Delete** icon corresponding to the desired user, and the delete user dialog box appears. (See [Figure 3-10](#).)

Figure 3-10 Delete User Dialog Box



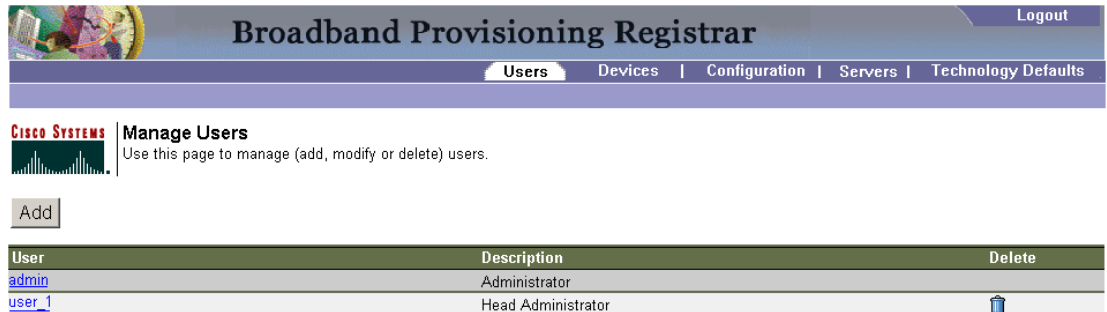
- Step 3 Click either **OK**, to delete the selected user, or **Cancel** to return to the previous page. The User successfully deleted page (Figure 3-11) appears.

Figure 3-11 User Deleted Page



- Step 4 Click the link indicated in Figure 3-11, and the Manage Users page appears without the deleted user. (See Figure 3-12.)

Figure 3-12 Manage Users Page Showing A Deleted User



After completing this procedure, you will see that the user has been deleted.

Searching For and Viewing Device Information

You can search for device information a number of different ways using BPR. Each search result that you generate also carries with it a View Details function. The details that are displayed are identical no matter which search method you use.

Searching for Information

BPR lets you, through the use of its search function, find a group of similar devices, select a specific device, and view that device's MAC address and related information. You can search for specific devices using these functions:

- MAC address search (See the [“MAC Address Search”](#) section on page 3-7.)
- Owner ID search (See the [“Owner ID Search”](#) section on page 3-9.)
- IP address search (See the [“IP Address Search”](#) section on page 3-10.)
- Fully qualified domain name (FQDN) search (See the [“FQDN Search”](#) section on page 3-12.)



Note

A maximum of 1000 results are returned for any query.

MAC Address Search

The MAC address search function is best used when you know the precise MAC address for a specific modem or when all devices with a specific vendor-prefix unambiguously identify the equipment vendor. Therefore, if you perform a MAC address search, you can identify, by the MAC address, the manufacturer and type of device. [Figure 3-13](#) illustrates the MAC Address Search page.



Note

The vendor-prefix is the first 3 octets of the MAC address. For example, for MAC address 1,6,aa:bb:cc:dd:ee:ff, the vendor-prefix is “aa:bb:cc”.

Figure 3-13 MAC Address Search Page

The screenshot displays the 'Broadband Provisioning Registrar' interface. At the top, there is a navigation menu with 'Users', 'Devices', 'Configuration', 'Servers', and 'Technology Defaults'. Below this, there are search options: 'MAC Address Search', 'Owner ID Search', 'IP Address Search', and 'FQDN Search'. The main content area is titled 'Devices by MAC Address' and includes a Cisco Systems logo. A search form is present with a text input field containing '1,6,00:00:00:*', a 'Page Size' dropdown menu set to '25', and a 'Search' button. Below the search form is a table with the following data:

MAC Address
1,6,00:00:00:00:00
1,6,00:00:00:00:00:01
1,6,00:00:00:00:00:02
1,6,00:00:00:00:00:03
1,6,00:00:00:00:00:04
1,6,00:00:00:00:00:05
1,6,00:00:00:00:00:06
1,6,00:00:00:00:00:07
1,6,00:00:00:00:00:0a
1,6,00:00:00:00:00:0b
1,6,00:00:00:00:00:0c
1,6,00:00:00:00:00:0d
1,6,00:00:00:00:00:0e
1,6,00:00:00:00:00:0f
1,6,00:00:00:00:00:10
1,6,00:00:00:00:00:11
1,6,00:00:00:00:00:12
1,6,00:00:00:00:00:13
1,6,00:00:00:00:00:1a

Figure 3-13 also illustrates the **Page Size** field. This is used to control the number of devices that can be displayed at any given time, up to a maximum of 75 devices per page.

When the number of search results is greater than the selected page size, paging controls appear in the lower-left corner of the page. These let you scroll forward or backward one page at a time, or to select a specific page. Refer to the “[Scrolling Backward and Forward](#)” section on page 2-5 for additional information.

Table 3-1 identifies the MAC Address Search page fields and buttons shown in Figure 3-13.

Table 3-1 MAC Address Search Page

Field or Button	Description
MAC Address or MAC Address wildcard	<p>Enter the MAC address in this field using any of these formats:</p> <ul style="list-style-type: none"> The full MAC address for any given device. For example: 1,6,00:00:00:00:00:AE Only the vendor-prefix portion of MAC address. For example: 1,6,00:00:00:* <p>Note The asterisk wildcard character can be used in place of any MAC address octet.</p> <ul style="list-style-type: none"> An asterisk (*) to search for all devices. If you use this input option, a limited number of search results are returned to you. For example: 1,6,* <p>Note Cisco does not recommend using the last wildcard search (1,6,*) in systems that support hundreds of thousands, or more, devices.</p>
Page Size	Specifies the maximum number of search results that will be displayed in the page's content area, after each search.
Search	Click this button to begin searching.
MAC Address list	Identifies all of the devices meeting the MAC address search criteria entered above. Each of the MAC addresses displayed has a link to another page that shows the details for that device.

Owner ID Search

The owner ID can identify a device, it could identify the service subscriber's account number, or anything else that uniquely identifies that device. [Figure 3-14](#) illustrates the results of an Owner ID Search.

Figure 3-14 Devices by Owner ID Search Results Page

The screenshot shows the 'Broadband Provisioning Registrar' interface. The main navigation bar includes 'Users', 'Devices', 'Configuration', 'Servers', and 'Technology Defaults'. Under 'Devices', there are search options: 'MAC Address Search', 'Owner ID Search', 'IP Address Search', and 'FQDN Search'. The 'Owner ID Search' section is active, displaying a search form with the following fields and controls:

- Owner ID:** A text input field containing 'User_1'.
- Page Size:** A dropdown menu set to '25'.
- Search:** A button to execute the search.

Below the search form, a table displays the results of the search, showing a list of MAC addresses. Each MAC address is displayed with a blue hyperlink to its details page. The visible MAC addresses are:

MAC Address
1,6,00,00,00,00,00,07
1,6,00,00,00,00,00,06
1,6,00,00,00,00,00,05
1,6,00,00,00,00,00,04
1,6,00,00,00,00,00,01

Table 3-2 identifies the fields shown in Figure 3-14.

Table 3-2 Owner ID Search Page

Field or Button	Description
Owner ID	Enter the assigned owner ID in this field before clicking the Search button. Note You can not use wild card characters when entering data to perform an Owner ID search.
Page Size	Specifies the maximum number of search results that will be displayed in the page's content area, after each search.
Search	Click this button to begin searching. When the search criteria is broad enough, or the database is large enough, there may be multiple pages showing the results of the search. The number of pages of search results are identified at the lower left corner of the page.
MAC Address list	Lists all MAC addresses matching the search criteria. Each of the MAC addresses displayed has a link to another page that shows the details for that device.

IP Address Search

Figure 3-15 illustrates the IP Address Search page.

Figure 3-15 IP Address Search Page

Table 3-3 identifies the fields and buttons shown in Figure 3-15.

Table 3-3 IP Address Search Page

Field or Button	Description
IP Address or IP Address wildcard	<p>Enter the appropriate IP address in this field. You can use an asterisk (*) as a wildcard character when searching for several IP addresses. Use these formats when using wildcard characters to search:</p> <ul style="list-style-type: none"> The full IP address for any given device. For example: 10.10.10.1 Using a wildcard for the fourth in the address. For example: 10.10.10.* Using a wildcard for the third number in the address. For example: 10.10.* Using a wildcard for the second number in the address. For example: 10.* Using a wildcard for the first number in the address. For example: * <p>Note Cisco does not recommend using the last wildcard search (*) in systems that support hundreds of thousands, or more, devices.</p>
Page Size	Specifies the number of search results appearing in the content area of each page.

Table 3-3 IP Address Search Page (continued)

Field or Button	Description
Search	Click this button to begin searching. When the search criteria is broad enough, or the database is large enough, there may be multiple pages showing the results of the search. The number of pages of search results are identified at the lower left corner of the page.
IP Address list	Identifies the IP addresses for devices found by the search. Each of the addresses displayed has a link to another page that shows the details for that device.

FQDN Search

The fully qualified domain name (FQDN) search is useful when searching for devices that are identified through the FQDN assigned by the DNS Server, especially when the device MAC address is unknown.

Example:

The web site **www.cisco.com** is a fully qualified domain name. In this domain name, **www** is the host, **cisco** is the second level domain, and **.com** is the third level domain. [Figure 3-16](#) illustrates the FQDN Search page.

Figure 3-16 FQDN Search Page

[Table 3-4](#) identifies the fields and buttons shown in [Figure 3-16](#).

Table 3-4 Advanced Search Page

Field or Button	Description
FQDN or FQDN Wildcard	<p>Enter all or part of a FQDN in this field. You can use an asterisk (*) as a wildcard character when searching for several IP addresses. Use these formats when using wildcard characters to search:</p> <ul style="list-style-type: none"> • modem10.cisco.com • *.cisco.com • *.com • * <p>Note Cisco does not recommend using the last wildcard search (*) in systems that support hundreds of thousands, or more, devices.</p>
Page Size	Specifies the maximum number of search results that will be displayed in the page's content area, after each search.
Search	Click this button to begin searching for the FQDN criteria entered. The results of this search appear in the content area of this page.
FQDN list	Displays the FQDN that corresponds to the search criteria you entered in the FQDN field. When the search criteria is broad enough, or the database is large enough, there may be multiple pages showing the results of the search. The number of pages of search results are identified at the lower left corner of the page. Each of the FQDNs displayed has a link to another page that shows the details for that device.

Viewing Device Details

As mentioned earlier in this chapter, you can view the details of any device identified in the search results. To view any device details:

-
- Step 1** Perform whichever search activity you require.
 - Step 2** Select the desired device from the search results.
 - Step 3** Click the appropriate link and a View Device Details page, similar to the one shown in [Figure 3-17](#), appears.
-

Figure 3-17 Search Results Device Details Page

View Device Details
This page shows the details for the device you selected.

Device Details	
Device Type:	DOCSISModem
MAC Address:	1,6,00:02:16:85:b0:21
FQDN:	900.DOCSIS.cisco.com
Behind Device:	
Provisioning Group:	DSTBTest
DHCP Criteria:	scopeProvDOCSISModem
CPE DHCP Criteria:	scopeProvComputer
Device Properties:	
Device Provisioned State:	Provisioned
Device Registered State:	Registered
Relay Agent Circuit Identifier:	
Relay Agent Remote Identifier:	
Client Identifier:	
Client Request Host Name:	
Class Of Service:	gold
Owner Identifier:	1234
DHCP Information	
DHCP Inform Dictionary:	
DHCP Request Dictionary:	chaddr=00:02:16:85:b0:21, dhcp-class-identifier=docsis1.0, dhcp-parameter-request-list=1,2,4,66,128,6,15,3,7,67,12,14, provisioning-group=DSTBTest, client-id=01:00:02:16:85:b0:21, giaddr=172.27.201.99, dhcp-message-type=3
DHCP Response Dictionary:	
DHCP Environment Dictionary:	
Lease Information	
IP Address:	10.10.10.5
DHCP Lease Properties:	
Technology Specific Information	
XGCP Ports:	
DOCSIS Version:	1.0

**Note**

The information contained in the page shown in [Figure 3-17](#) is largely dependent on the type of device you select.

[Table 3-5](#) identifies the fields shown [Figure 3-17](#).

Table 3-5 MAC Address Search Device Details Page

Field or Button	Description
Device Details	
Device Type	Specifies the type of device found by the search. Available types include: <ul style="list-style-type: none"> • DOCSISModem • DSTB • Computer • DVBModem
MAC Address	Identifies the devices MAC address.
FQDN	Identifies the fully qualified domain name for the selected device.
Behind Device	Identifies the device that this device is behind.
Provisioning Group	Identifies the provisioning group to which the device is assigned.

Table 3-5 MAC Address Search Device Details Page (continued)

Field or Button	Description
DHCP Criteria	Identifies the DHCP criteria used.
CPE DHCP Criteria	Identifies the DHCP criteria used for customer premises equipment.
Device Properties	Identifies any properties, other than those displayed on this page, that can be set for this device. These are custom properties.
Device Provisioned State	Identifies whether the device is provisioned or not.
Device Registered State	Identifies whether the device is registered or not.
Relay Agent Circuit Identifier	Identifies the relay agent local identifier used when communicating with a client. This is equivalent to DHCP option 82, sub option 1.
Relay Agent Remote Identifier	Identifies the globally unique device identifier. This could be the devices MAC address and is equivalent to the DHCP option 82, sub option 2.
Client Identifier	Identifies the client identification that the Network Registrar server uses to keep track of the device.
Client Request Host Name	Identifies the host name used by Network Registrar in DNS. This is read when queuing in the request for a DNS update just prior to the update of stable storage.
Class of Service	Identifies the class of service assigned to this device.
Owner Identifier	Identifies the host. This may be a user ID, and account number, or may be left blank.
DHCP Information	
DHCP Inform Dictionary	Identifies information that is sent between Network Registrar and it's extensions.
DHCP Request Dictionary	Identifies the data items that can be set in the request dictionary. The data items can be set at any time. The DHCP server reads them at various times.
DHCP Response Dictionary	Identifies the data items that can be set in the response dictionary. The DHCP server reads them at various times.
DHCP Environment Dictionary	Identifies control information that is passed between the DHCP server and Network Registrar extensions.
Lease Information	
DHCP Lease Properties	Identifies the lease properties, along with an IP update, that Network Registrar sends to the RDU.
IP Address	Identifies a device's IP address.
Technology Specific Information	
CPE DHCP Criteria	Identifies the DHCP criteria used for devices behind this devices, in the promiscuous mode. This only applies to DOCSIS modems.
Class of Service	Describes the class of service assigned to the device.
XGCP Ports	Identifies the ports on which the gateway control protocol is active.
DOCSIS Version	Identifies the DOCSIS version currently in use.

Viewing BPR Servers

This section describes the BPR administrator server pages for:

- [Viewing Regional Distribution Unit, page 3-16](#)
- [Listing Device Provisioning Engines, page 3-18](#)
- [Listing Network Registrar Extension Points, page 3-20](#)
- [Listing Provisioning Groups, page 3-21](#)

Viewing Regional Distribution Unit

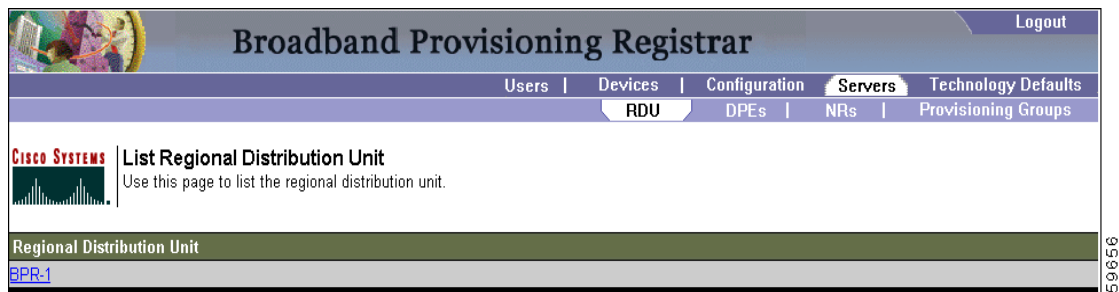
The Regional Distribution Unit page, shown in [Figure 3-18](#), lets you view the details of your RDU.



Note

BPR only supports a single regional distribution unit (RDU) per deployment.

Figure 3-18 List Regional Distribution Unit Page



[Table 3-6](#) identifies the fields and buttons shown in [Figure 3-18](#).

Table 3-6 List Regional Distribution Unit Page

Field or Button	Description
Regional Distribution Unit	Identifies the regional distribution unit. The Regional Distribution Unit name is a link to another page that shows the details for the RDU.

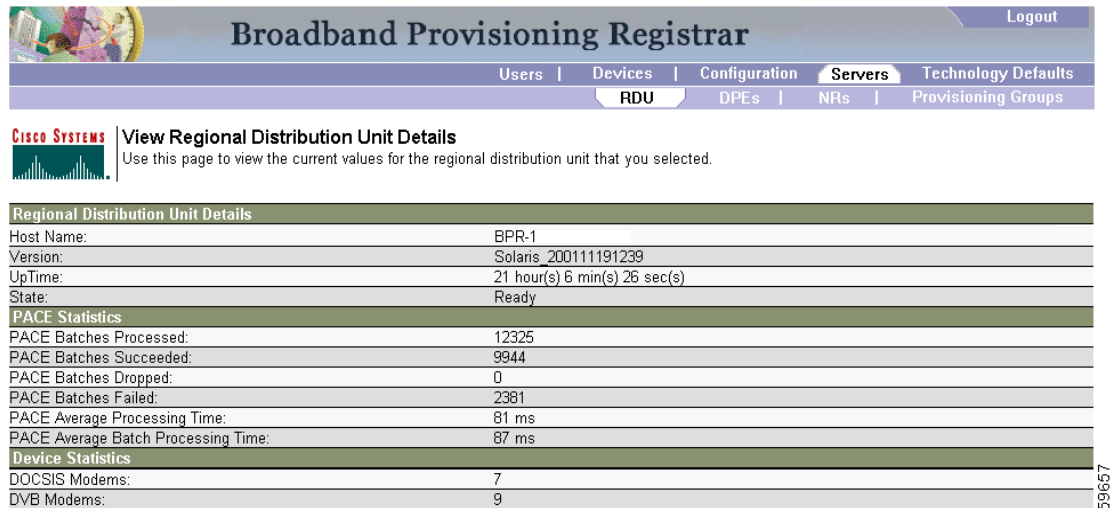
Viewing Regional Distribution Unit Details

Complete this procedure to view all BPR RDU details:

- Step 1** Select **Servers** on the Primary Navigation bar.
- Step 2** Select **RDU** from the Secondary Navigation bar. The RDU appears in the List Regional Distribution Unit page similar to that shown in [Figure 3-18](#).
- Step 3** Click the link to the desired RDU and the details page, similar to that shown in [Figure 3-19](#), appears.

[Figure 3-19](#) illustrates a sample View Regional Distribution Unit Details page.

Figure 3-19 View Regional Distribution Unit Details Page



Broadband Provisioning Registrar Logout

Users | Devices | Configuration | **Servers** | Technology Defaults

RDU | DPEs | NRs | Provisioning Groups

CISCO SYSTEMS | **View Regional Distribution Unit Details**
Use this page to view the current values for the regional distribution unit that you selected.

Regional Distribution Unit Details	
Host Name:	BPR-1
Version:	Solaris_200111191239
UpTime:	21 hour(s) 6 min(s) 26 sec(s)
State:	Ready
PACE Statistics	
PACE Batches Processed:	12325
PACE Batches Succeeded:	9944
PACE Batches Dropped:	0
PACE Batches Failed:	2381
PACE Average Processing Time:	81 ms
PACE Average Batch Processing Time:	87 ms
Device Statistics	
DOCSIS Modems:	7
DVB Modems:	9

Table 3-7 identifies the fields and buttons shown in Figure 3-19.

Table 3-7 View RDU Details Page

Field or Button	Description
Regional Distribution Unit Details	
Host Name	Identifies the hostname of the system that is running the regional distribution unit.
Version	Specifies the version of RDU software currently in use.
Up Time	Specifies the total amount of time that the RDU has been operational since its last period of down time.
State	Identifies whether or not the RDU is ready to respond to requests.
PACE Statistics	
PACE Batches Processed	Identifies how many individual batches have been processed while the PACE engine has been operating.
PACE Batches Succeeded	Identifies how many individual batches have been successfully processed while the PACE engine has been operating.
PACE Batches Dropped	Identifies how many batches have been dropped while the PACE engine has been operating.
PACE Batches Failed	Identifies how many batches have failed processing while the PACE engine has been operating.
PACE Average Processing Time	Identifies the average time, in milliseconds, that it takes to process a transaction.
PACE Average Batch Processing Time	Identifies the average time, in milliseconds, that it takes to process one PACE batch.

Listing Device Provisioning Engines

The List Device Provisioning Engines page (Figure 3-20) lets you monitor the list of all, currently registered DPEs. Each DPE is assigned to one or more provisioning groups.

Figure 3-20 List Device Provisioning Engines Page

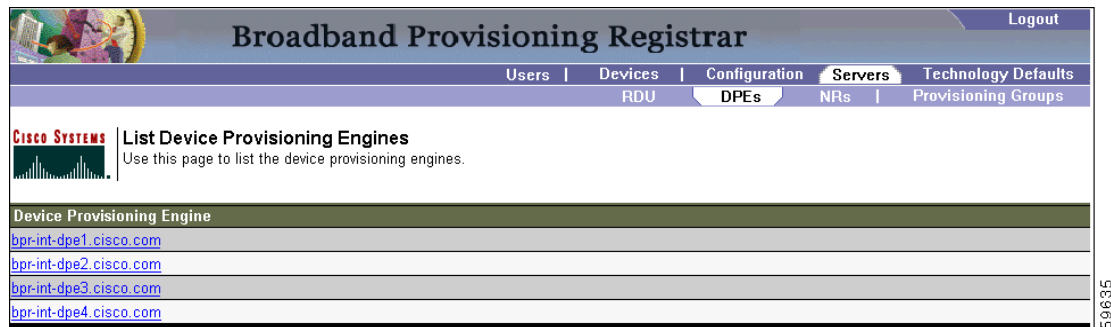


Table 3-8 identifies the fields and buttons shown in Figure 3-20.

Table 3-8 View Device Provisioning Engines Page

Field or Button	Description
Device Provisioning Engine list	Identifies all DPEs registered with the BPR database. Each of the DPEs displayed has a link to another page that shows the details for that DPE.

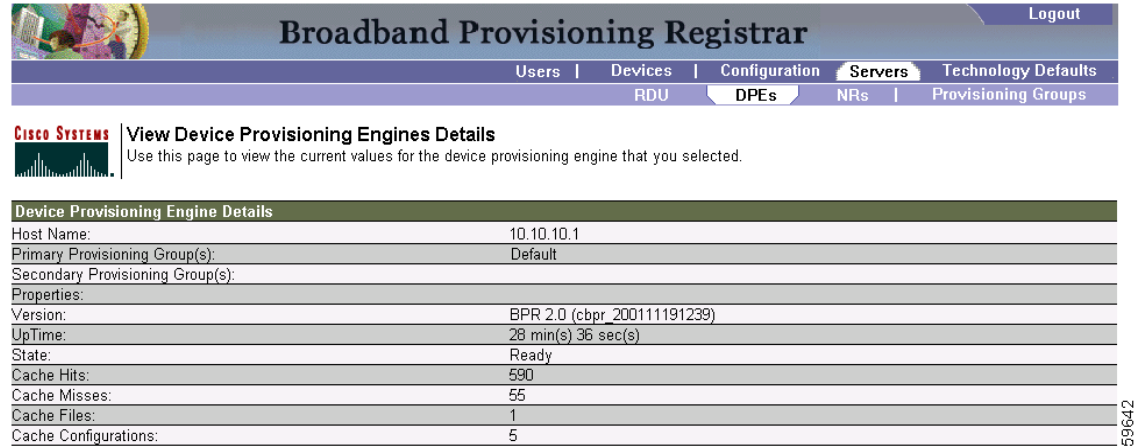
Viewing Device Provisioning Engine Details

Figure 3-21 illustrates a sample View Device Provisioning Engine Details page. This page displays the current status for the selected DPE server, and includes information, such as the average number of requests being handled and any error state flags.

Complete this procedure to view all BPR details:

-
- Step 1 Select **Servers** on the Primary Navigation bar.
 - Step 2 Select **DPEs** from the Secondary Navigation bar. All connected DPEs appear in the List DPEs page similar to that shown in Figure 3-20.
 - Step 3 Locate the desired DPE, if more than one is displayed. You might have to use the scroll buttons, in the lower-left of the page, to find the required DPE.
 - Step 4 Click the link for the appropriate DPE and the details page, similar to that shown in Figure 3-21, appears.
-

Figure 3-21 View Device Provisioning Engine Details Page



Broadband Provisioning Registrar Logout

Users | Devices | Configuration | **Servers** | Technology Defaults
 RDU | **DPEs** | NRs | Provisioning Groups

CISCO SYSTEMS **View Device Provisioning Engines Details**
 Use this page to view the current values for the device provisioning engine that you selected.

Device Provisioning Engine Details	
Host Name:	10.10.10.1
Primary Provisioning Group(s):	Default
Secondary Provisioning Group(s):	
Properties:	
Version:	BPR 2.0 (cbpr_200111191239)
UpTime:	28 min(s) 36 sec(s)
State:	Ready
Cache Hits:	590
Cache Misses:	55
Cache Files:	1
Cache Configurations:	5

Table 3-9 identifies the fields and buttons shown in Figure 3-21.

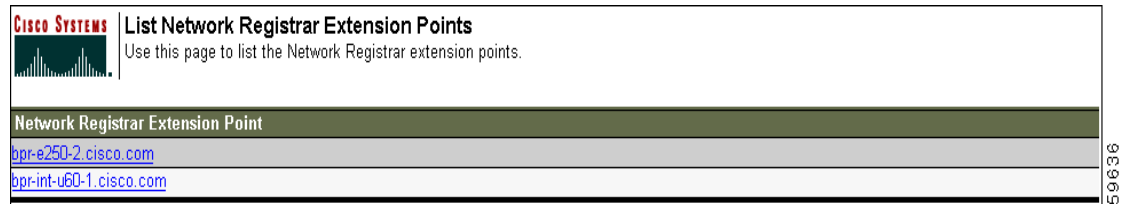
Table 3-9 View Device Provisioning Engine Details Page

Field or Button	Description
Host Name	Identifies the name of the host on which the DPE is running.
Primary Provisioning Group(s)	Identifies the primary provisioning groups that the selected DPE belongs to.
Secondary Provisioning Group(s)	Identifies the secondary provisioning group (provided that this DPE belongs to a secondary provisioning group) that the selected DPE belongs to.
Properties	Identifies which properties have been assigned to this DPE.
Version	Specifies the version of DPE software currently in use.
Up Time (in seconds)	Specifies the total amount of time that the DPE has been operational since its last period of down time.
State	Identifies whether or not the DPE is ready for operations. If this field reads Offline, these fields will not be displayed: <ul style="list-style-type: none"> • Version • Uptime • Cache Hits • Cache Version • Cache Files • Cache Configurations
Cache Hits	Identifies the number of cache hits that have occurred since the last time the DPE was started.
Cache Misses	Identifies the number of cache misses that have occurred since the last time the DPE was started.
Cache Files	Identifies the number of cache files that are currently stored in the DPE.
Cache Configurations	Identifies how many device configuration files are saved in cache.

Listing Network Registrar Extension Points

The List Network Registrars page, shown in [Figure 3-22](#), lists the extension points for all Network Registrar servers that have been registered with the RDU, and are configured for use with BPR. Network Registrar servers automatically register with the RDU when they are started.

Figure 3-22 List Cisco Network Registrar Extension Points Page



[Table 3-10](#) identifies the fields and buttons shown in [Figure 3-22](#).

Table 3-10 List Cisco Network Registrar Extension Points Page

Field or Button	Description
Network Registrar Extension Point	Identifies the Network Registrar extension points. Each of the extension points displayed has a link to another page that shows the details for that point.

Viewing Network Registrar Extension Point Details

Complete this procedure to view the extension point details of any selected Network Registrar server:

- Step 1** Select **Servers** on the Primary Navigation bar.
- Step 2** Select **NRs** from the Secondary Navigation bar. All connected Network Registrar servers appear in the List Cisco Network Registrar page similar to that shown in [Figure 3-20](#).
- Step 3** Locate the desired Network Registrar servers if more than one is displayed. You might have to use the scroll buttons, in the lower-left of the page, to find the required server.
- Step 4** Click the link to the desired extension point and the details page, similar to that shown in [Figure 3-23](#), appears.

Figure 3-23 View Cisco Network Registrar Details Page

Broadband Provisioning Registrar Logout

Users | Devices | Configuration | **Servers** | Technology Defaults
RDU | DPEs | **NRs** | Provisioning Groups

CISCO SYSTEMS **View Network Registrar Extension Point Details**
Use this page to view the current values for the Network Registrar extension point that you selected.

Network Registrar Extension Point Details	
Host Name:	dstb.cisco.com
Provisioning Group:	Default
Properties:	
Version:	BPR 2.0 (S_200111191239)
UpTime:	1 day(s) 5 hour(s) 50 min(s) 23 sec(s)
State:	Ready
Device Provisioning Engine(s) Details	
DPE:	10.10.10.1
Port:	49186
Type:	Primary Device Provisioning Engine
Status:	Ready

Table 3-11 identifies the fields and buttons shown in Figure 3-23.

Table 3-11 View Network Registrar Extension Point Details Page

Field or Button	Description
Regional Distribution Unit Details	
Host Name	Displays the host name of the system running Network Registrar.
Provisioning Group	Identifies the primary provisioning group for this Network Registrar.
Properties	Identifies the properties that are applied to the selected Network Registrar.
Version	Identifies the extension point version currently in use.
Up Time	Identifies how long the Network Registrar extension point has been operational. This is indicated in hours, minutes, and seconds.
State	Identifies the current operational status of the Network Registrar extension point. If this field reads Offline, these fields will not be displayed: <ul style="list-style-type: none"> Version Uptime
Device Provisioning Engine(s) Details	
DPE	Identifies the IP address of the device provisioning engine.
Port	Identifies the DPE port number.
Type	Identifies whether this DPE is a primary or secondary DPE
Status	Identifies whether or not the DPE is operational

Listing Provisioning Groups

The List Provisioning Groups page, shown in Figure 3-24, identifies all provisioning group within the system.

Figure 3-24 List Provisioning Groups Page

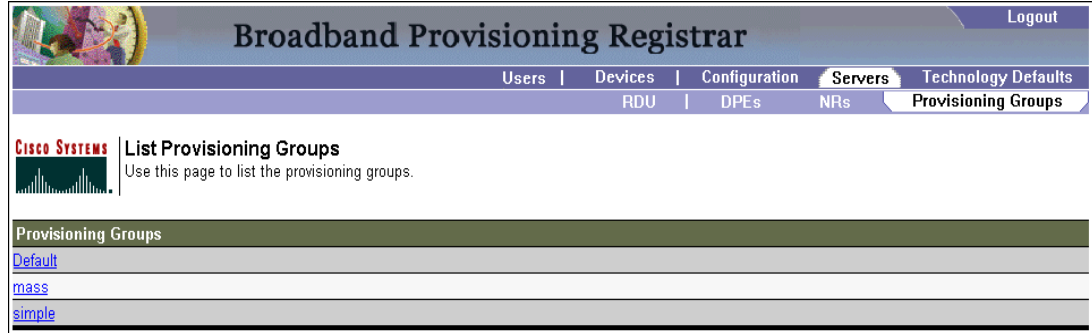


Table 3-12 identifies the fields and buttons shown in Figure 3-24.

Table 3-12 List Provisioning Groups Page

Field or Button	Description
Provisioning Group	Identifies all provisioning groups. Each of the provisioning group displayed has a link to another page that shows the details for that group.

Viewing Provisioning Group Details

Complete this procedure to view all BPR provisioning group details:

- Step 1 Select **Servers** on the Primary Navigation bar.
- Step 2 Select **Provisioning Groups** from the Secondary Navigation bar. All configured provisioning groups appear in the **Provisioning Groups** page similar to that shown in Figure 3-24.
- Step 3 Locate the desired provisioning group if more than one is displayed. You might have to use the scroll buttons, in the lower-left of the page, to find the required group.
- Step 4 Click the link to the desired provisioning group and the details page, similar to that shown in Figure 3-25, appears.

Figure 3-25 View Provisioning Group Details Page

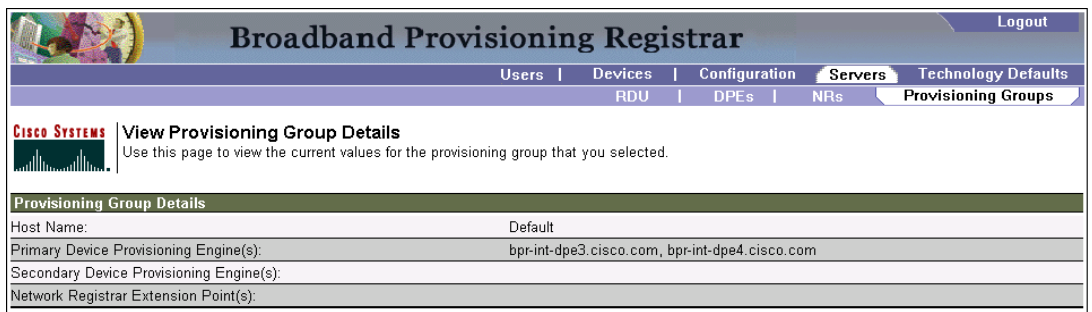


Table 3-13 identifies the fields and buttons shown in Figure 3-25.

Table 3-13 View Provisioning Groups Details Page

Field or Button	Description
Host Name	Identifies the provisioning group name selected from the List Provisioning Groups page.
Device Provisioning Engine(s)	Identifies the hostnames of the DPEs that are primary for this provisioning group.
Network Registrar Extension Points	Identifies the hostname of the Network Registrar server assigned to this provisioning group.

