



## CHAPTER 8

# Configuring RADIUS Clients

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This chapter describes the following:

- [Overview](#)
- [Adding RADIUS Clients](#)
- [Editing RADIUS Clients](#)
- [Deleting RADIUS Clients](#)

## Overview

Remote Authentication Dial In User Service (RADIUS) is an AAA (authentication, authorization and accounting) protocol. Cisco NAC Guest Server uses the RADIUS protocol to authenticate and audit guests who login through RADIUS-capable network enforcement devices, such as Cisco Wireless LAN Controllers.

Although the Cisco NAC Appliance uses its own API and a different method for creating accounts and authenticating users, as described in [Chapter 7, “Integrating with Cisco NAC Appliance,”](#) it still uses RADIUS Accounting to record user activity and therefore still needs to be configured as a RADIUS client.

When a guest authenticates against a RADIUS client, such as the Wireless LAN Controller, the RADIUS client uses RADIUS authentication to check with the Cisco NAC Guest Server whether the user authentication is valid. If the guest authentication is valid, the Cisco NAC Guest Server returns a message stating that the user is valid and the duration of time remaining before the user session expires. The RADIUS client must honor the session-timeout attribute to remove the guest when the guest account time expires.



### Note

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The Cisco Wireless LAN Controller needs to be specifically configured to Allow AAA Override. This enables it to honor the session-timeout attribute returned to it by the Cisco NAC Guest Server.

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In addition to authentication, the RADIUS client device reports details to the Cisco NAC Guest Server, such as the time the session started, time session ended, user IP address, and so on. This information is transported over the RADIUS Accounting protocol.



### Tip

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If there is a Firewall between the Cisco NAC Guest Server and the RADIUS client, you need to allow traffic from UDP Port 1812 or 1645(RADIUS authentication) and UDP Port 1813 or 1646(RADIUS accounting) to pass.

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**Note**

Every time you make a change to a RADIUS component on the Cisco NAC Guest Server, you need to **Restart** the RADIUS service for the changes to become active.

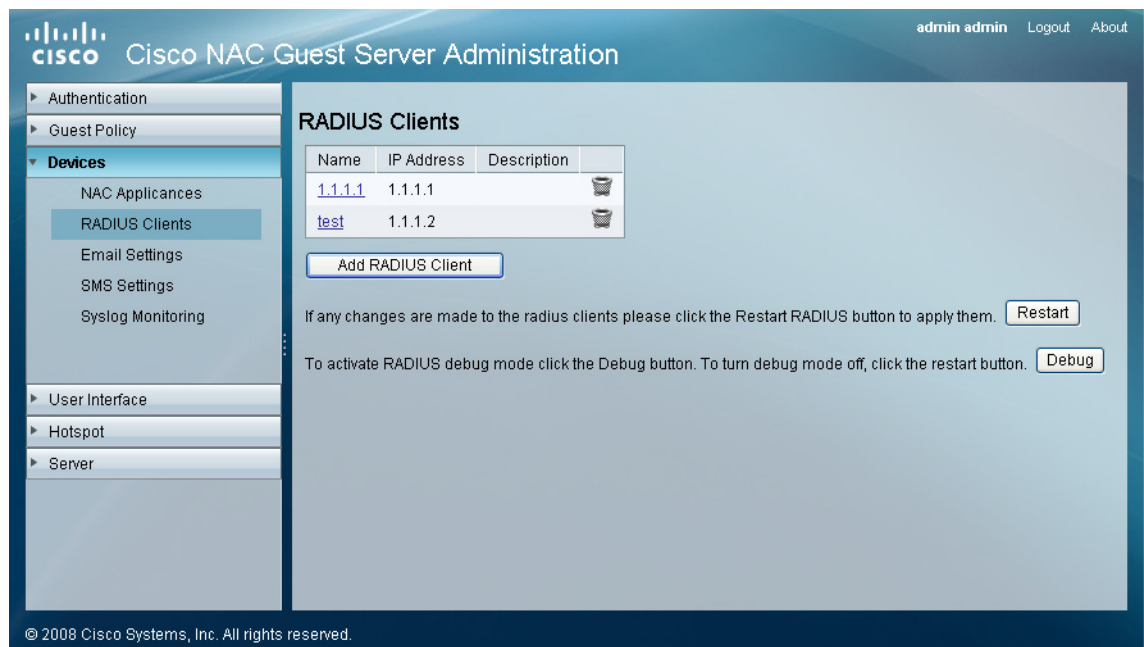
**Note**

The **Debug** button under **Devices > RADIUS Clients** turns the RADIUS server on in debugging mode. This enables detailed debug information to be viewed under **Server > System Logs > Support Logs**. See [Support Logs, page 15-8](#) for additional details.

## Adding RADIUS Clients

- Step 1** From the administration interface, select **Devices > RADIUS Clients** from the left hand menu.
- Step 2** In the RADIUS Clients page as shown in [Figure 8-1](#), click the **Add RADIUS Client** button to add a RADIUS client.

**Figure 8-1** RADIUS Clients



- Step 3** In the Add RADIUS Client page as shown in [Figure 8-2](#), type a descriptive **Name** for the RADIUS client.

Figure 8-2 Add RADIUS Client

- Step 4** Type the **IP Address** of the RADIUS client. This needs to match the IP address from which the RADIUS request is originated.
- Step 5** Type a shared **Secret** for the RADIUS client. This must match the shared secret specified in the configuration of the RADIUS client.
- Step 6** Retype the shared secret in the **Confirm** field.
- Step 7** Type a **Description** of the client and any other information needed.
- Step 8** If you want the RADIUS client to send any additional attributes upon successful authentication, enter the attribute name and value in the **Attribute** and **Value** fields and click the **Add** button. You can enter as many attributes as you need.
- If you want to remove an attribute, select the attribute from the table and click the **Remove** button.
  - Use the **Move up** and **Move down** buttons to change the order of the RADIUS attributes as they are sent in the RADIUS Accept Message.
- Step 9** Upon completion, click the **Add RADIUS Client** button.
- Step 10** From the administration interface, select **Devices > RADIUS Clients** as shown in [Figure 8-1](#).
- Step 11** Click the **Restart** button to restart the RADIUS service to make the changes take effect.

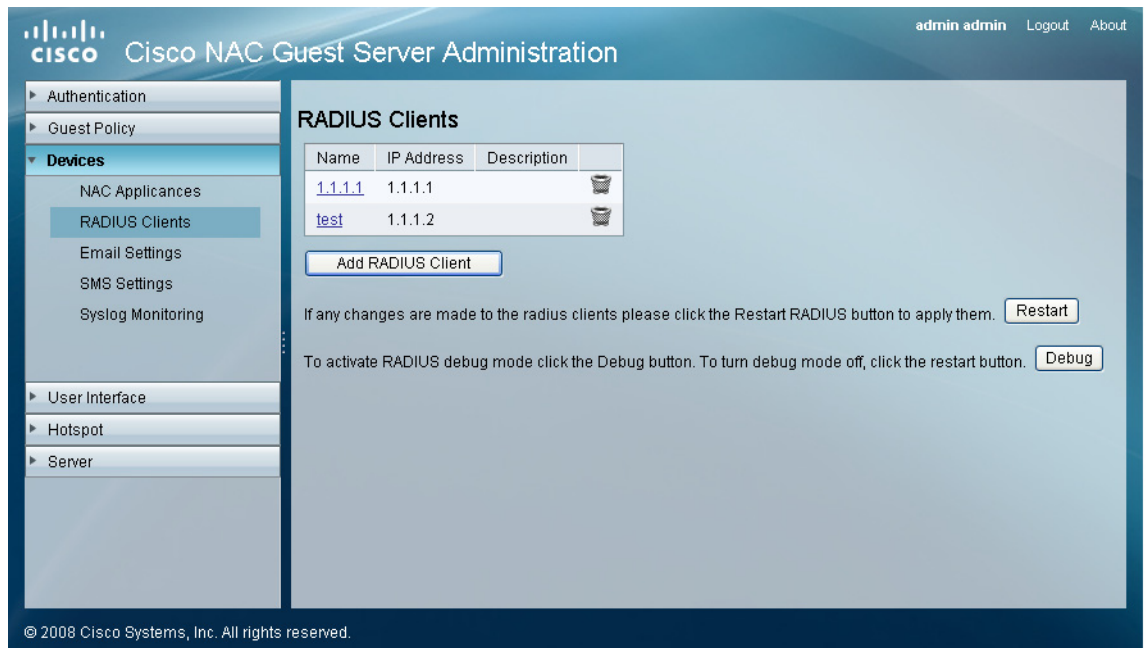


**Note** NAC Guest Server supports only PAP in RADIUS Authentication.

## Editing RADIUS Clients

- Step 1** From the administration interface, select **Devices > RADIUS Clients** from the left hand menu.
- Step 2** In the RADIUS Clients page as shown in [Figure 8-3](#), select the RADIUS client from the list you wish to edit and click the underlined name of that client.

Figure 8-3 RADIUS Clients List



**Step 3** In the Edit RADIUS Client page as shown in Figure 8-4, edit the **IP Address** of the RADIUS client.

Figure 8-4 Edit RADIUS Client

The screenshot shows the 'Add RADIUS Client' configuration page. The form contains the following fields and controls:

- Name:** 1.1.1.1
- IP Address:** 1.1.1.1
- Secret:** [text input] **Confirm:** [text input]
- Description:** Test
- Attribute:** [text input] **Add** button
- Value:** [text input]
- Attributes Table:**

Attr1 = A	<b>Move up</b>	<b>Remove</b>	<b>Move down</b>
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- Buttons:** Save Settings, Cancel

The footer of the form area contains the number 279367.

**Step 4** Edit the shared secret used between the client and the Cisco NAC Guest Server in the **Secret** and **Confirm** fields.

**Step 5** Make any desired changes to the **Description**.

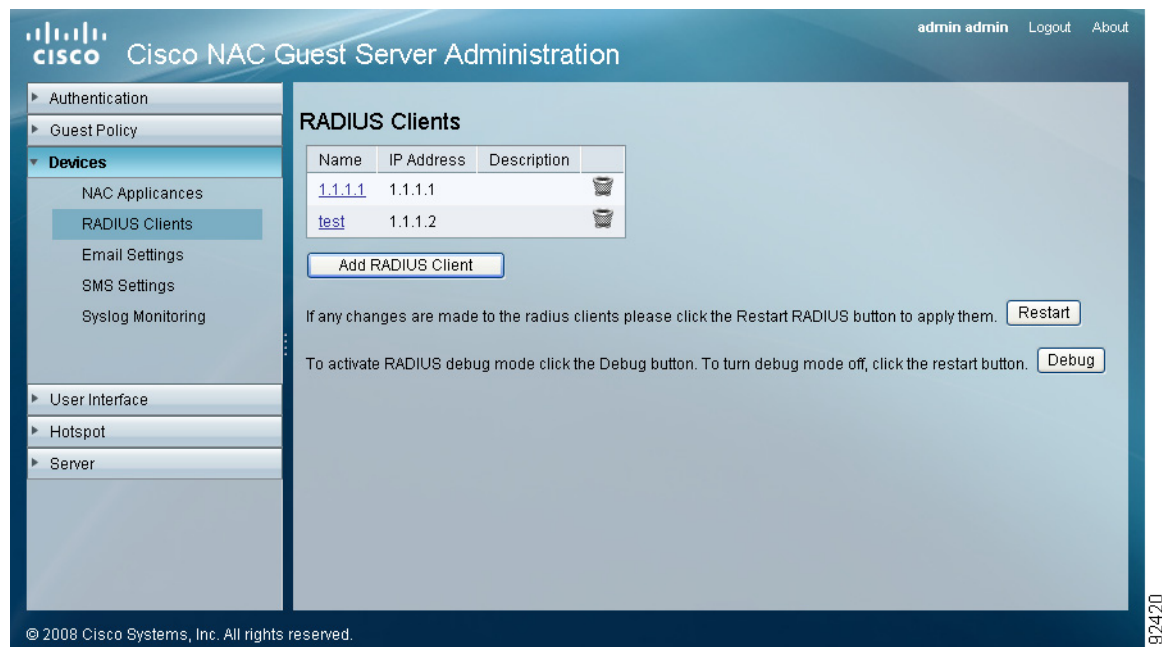
**Step 6** If you want the NAC Guest Server to send any additional RADIUS attributes upon successful authentication to the RADIUS Client, enter the attribute name and value in the **Attribute** and **Value** fields and click the **Add** button. You can enter as many attributes as you need. If you want to remove an attribute, select the attribute from the table and click the **Remove** button.

- Step 7** Click **Save Settings**.
- Step 8** From the administration interface, select **Devices > RADIUS Clients** as shown in [Figure 8-1](#) from the left hand menu.
- Step 9** Click the **Restart** button to restart the RADIUS service to make the changes take effect.

## Deleting RADIUS Clients

- Step 1** From the administration interface, select **Devices > RADIUS Clients** from the left hand menu.

**Figure 8-5** List RADIUS Clients



- Step 2** In the RADIUS Clients page as shown in [Figure 8-5](#), click the underlined name of the RADIUS client in the list to edit it.
- Step 3** Click the bin icon to the right of the entry to delete it, and confirm the action.
- Step 4** From the administration interface, select **Devices > RADIUS Clients** as shown in [Figure 8-1](#) from the left hand menu.
- Step 5** Click the **Restart** button to restart the RADIUS service to make the changes take effect.



**Note** Every time you make a change to a RADIUS component, you need to restart the RADIUS service for the changes to become active.

