

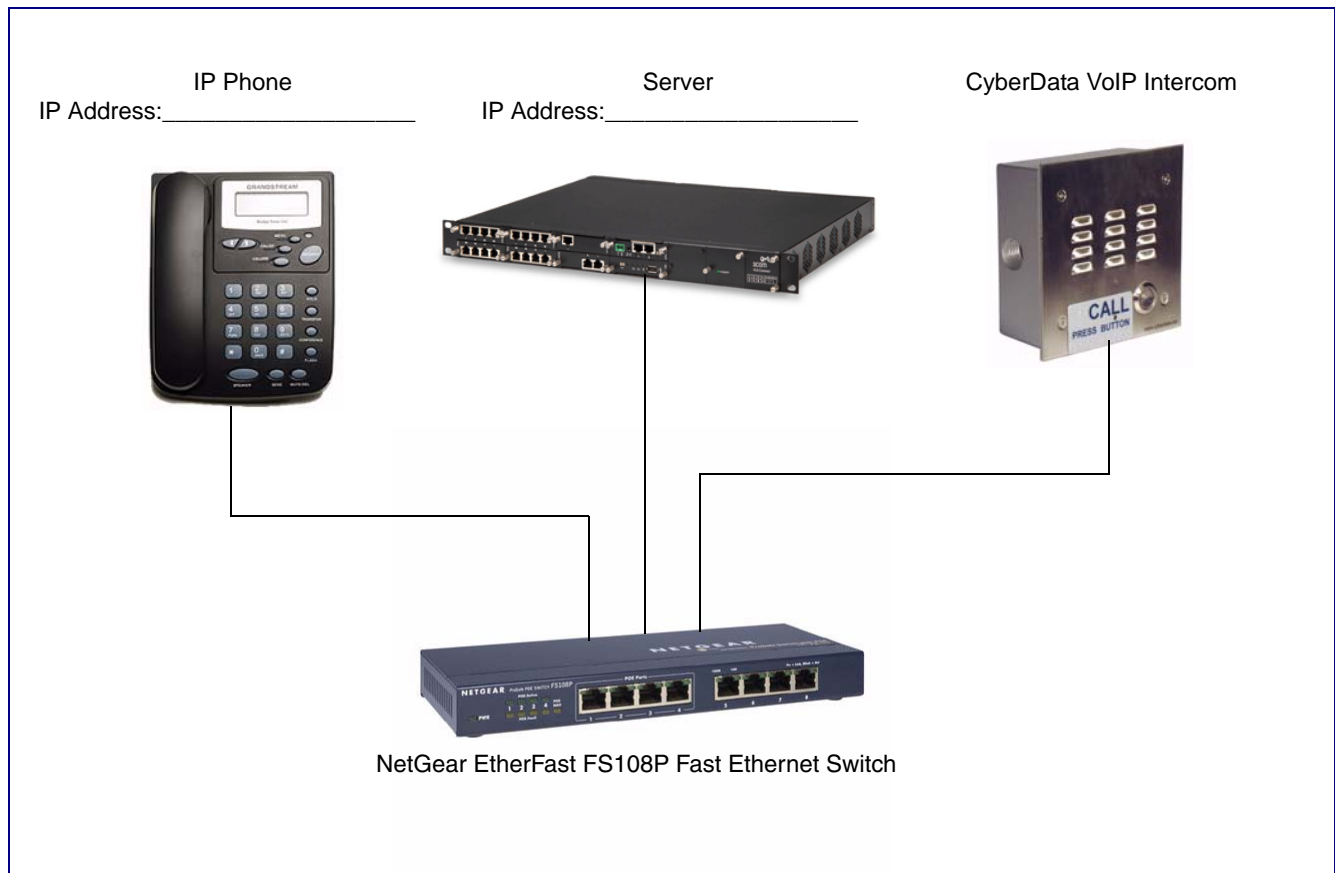


3COM VCX PBX Server VoIP Intercom Setup Guide

1.0 Setup Diagram

Figure 1 is a setup diagram for a single Intercom configuration. In this configuration, the Intercom acts as a standalone SIP telephony device.

Figure 1. Setup Diagram



2.0 Host Environment

Table 1. Host Environment Details

Description	
Hardware Type	3COM VCX V7000
Hardware Version	
Software Type	
Software Version	

3.0 Test Setup Equipment

Table 2. Test Setup Equipment

Equipment	Model	Version
Grandstream	BudgeTone-100	
Notes:		
NetGear EtherFast FS108P Fast Ethernet Switch		
Notes:		
VoIP Intercom	010935B	3.3.2
Notes:		
Notes:		
Notes:		
Notes:		
Notes:		
Notes:		

4.0 Setup Procedure

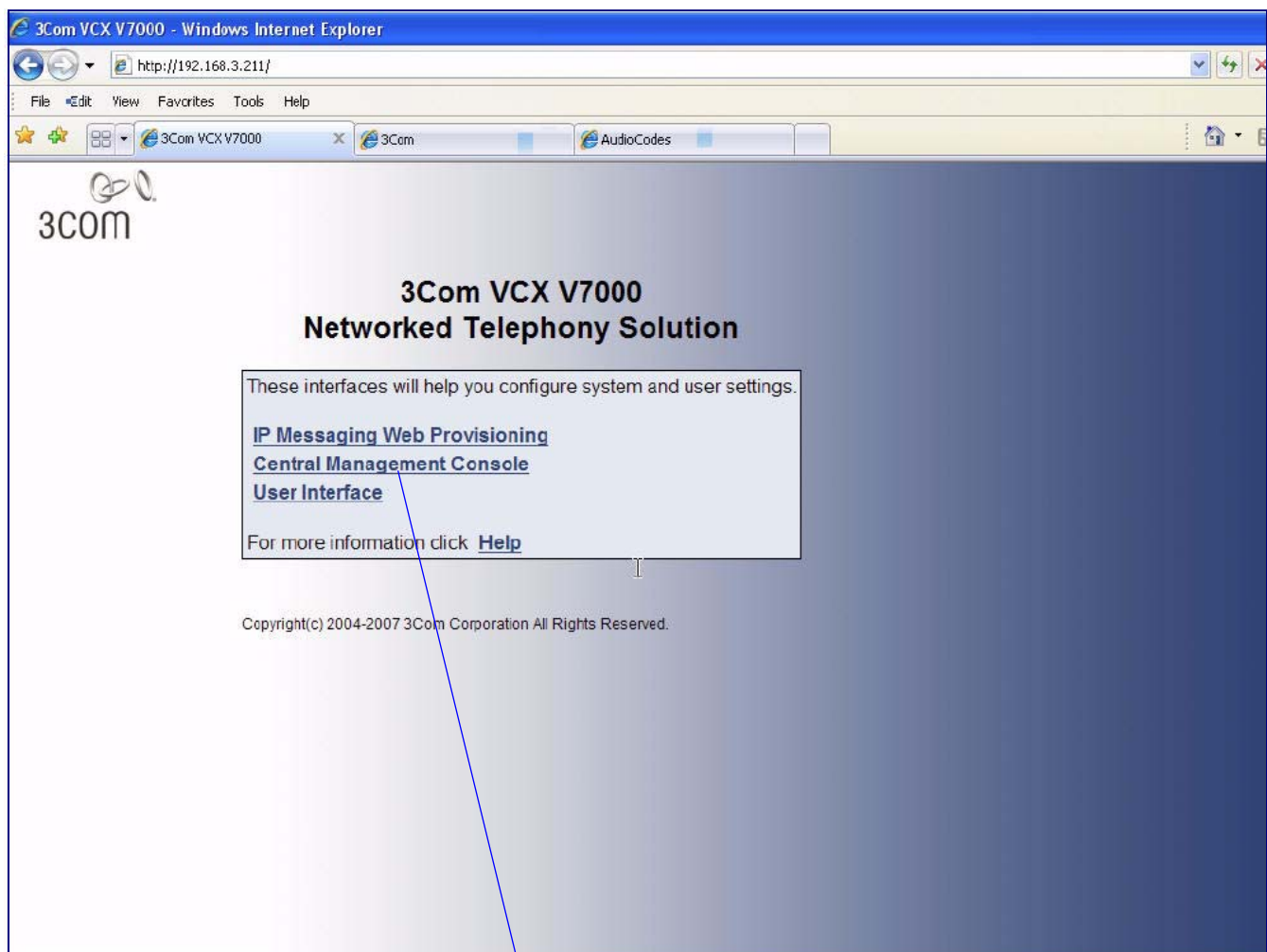
4.1 VCX Configuration

Below are the steps to configure the VCX so that a CyberData Intercom is able to register with the VCX.

To configure the VCX,

1. Navigate to the **Central Management Console** of the VCX and login as **Admin**. See [Figure 2](#).

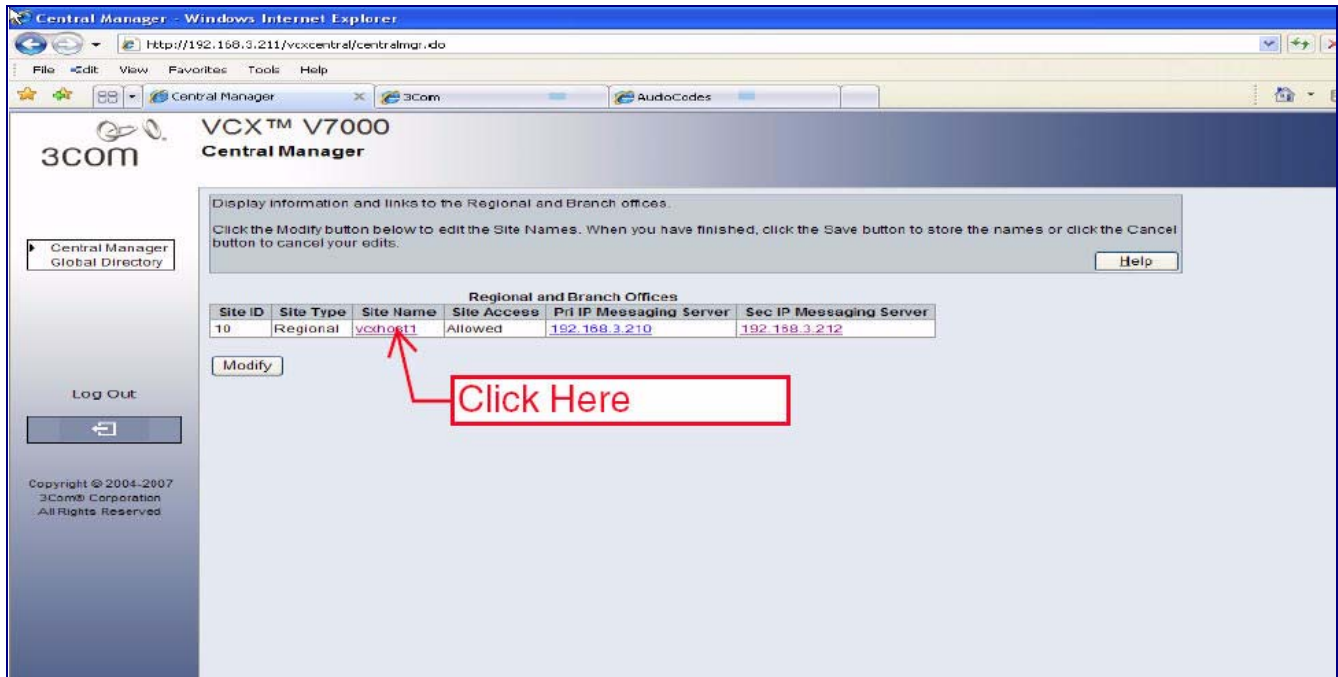
Figure 2. Central Management Console



Central Management Console

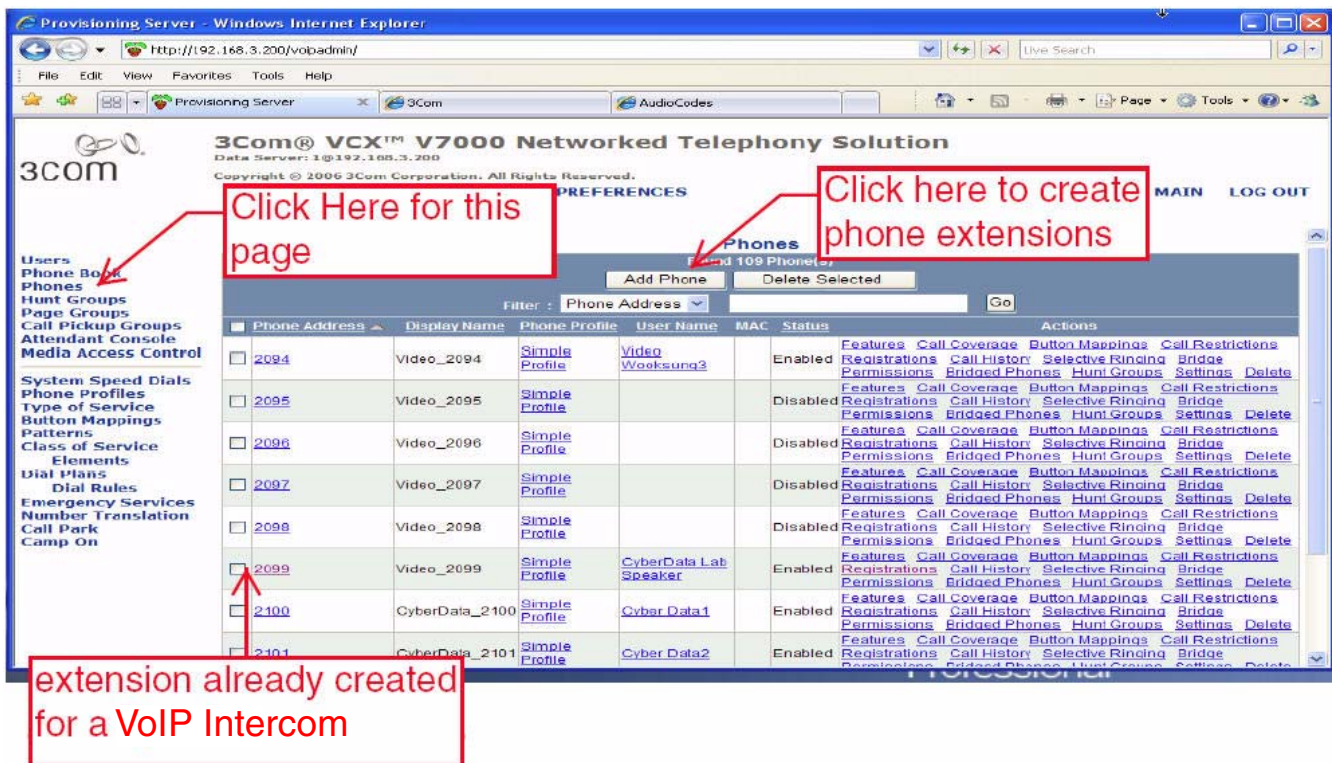
2. Click on the **Site Name**.

Figure 3. Site Name



3. This takes you to the **Users** page by default. Go to the **Phones** web page to create an extension for each CyberData Intercom.

Figure 4. Users Page



4. Select **Add Phone** and enter phone information. The extension and password assigned here are later used on the **SIP Setup** web page (Table 3 or Step 5 of Section 4.2, "Setup CyberData Device Parameters").

Figure 5. Add Phone

The screenshot shows the 'Edit Phone' page in a web browser. The page title is '3Com® VCX™ V7000 Networked Telephony Solution'. The left sidebar contains a navigation menu with items like 'Users', 'Phone Book', 'Phones', etc. The main content area has a form titled 'Edit Phone' with the following fields:

- * Phone Extension: 2099
- * Display Name: Video_2099
- Status: Enabled
- * Phone Password: ****
- * Confirm Password: ****
- Location: (empty)
- Exclude from Phone Book:
- Public Information: Phone Profile: Simple Profile

Buttons at the bottom include 'Save', 'Cancel', and 'Reset'. A note at the bottom states: 'Fields marked with an asterisk * are required'.

Two red callout boxes with arrows point to the 'Phone Extension' and 'Phone Password' fields, respectively, with the following text:

- "Phone Extension" is used as the "SIP user and Authenticate id" on the "SIP Setup" web page
- "Phone Password" is used as the "authenticate password" on the "SIP Setup" web page

5. Return to the **Users** page and then select the **Add User** button to create a user to assign the Intercom extensions to.

Figure 6. Users Page

The screenshot shows the 'Users' page in a web browser. The page title is '3Com® VCX™ V7000 Networked Telephony Solution'. The left sidebar contains a navigation menu with items like 'Users', 'Phone Book', 'Phones', etc. The main content area has a table of users with the following columns: Name, E-mail, Weblogin User Name, and Phones. The table contains 11 rows of users, including 'CTI_Group2' through 'CyberData5' and 'CyberData Lab VoIP Intercom'. A red callout box points to the 'Add User' button above the table. Another red callout box points to the 'Phones' column of the table.

Two red callout boxes with arrows point to the 'Add User' button and the 'Phones' column, respectively, with the following text:

- Select the "Add User" to create a user for the VoIP Intercom.
- Use this button to assign/associate extensions to this user.

6. Enter information similar to the information shown in [Figure 7](#).

Figure 7. Edit User Page

Provisioning Server - Windows Internet Explorer
 http://192.168.3.200/voipadmin/

3Com® VCX™ V7000 Networked Telephony Solution
 Data Server 1@192.168.3.200
 Copyright © 2006 3Com Corporation. All Rights Reserved.
 USERS DIRECTORY SEARCH PREFERENCES

Edit User

Personal Information

Title

* First Name CyberData

Middle Name Lab

* Last Name VoIP Intercom

Country United States of America

E-mail

Phone Features

Phone Language English

Phone Font Size Standard

Web Login Information

* Weblogin User Name VoIP Intercom

* Password

* Confirm Password

Save Cancel Reset

Fields marked with an asterisk * are required

7. Click the **Save** button and the screen will go back to the **Users** web page.
8. On the **Users** page, look to the far right of the **User** created for the CyberData Intercoms, and you will see a **Phones** button (see [Figure 6](#)). Use this button to assign and associate Intercom extensions to this user.
- Note** There is another **Phones** menu on the left-hand pane. This menu is used to create extensions or phones and not assign phones as outlined here. Creation of the extension or phones has been outlined earlier in this procedure.

9. Click this button to display a list of Extensions associated with this user. Initially this is blank.

Figure 8. User—Assigned Phones Page

The screenshot shows the 'User - Assigned Phones' page in a web browser. The browser title is 'Provisioning Server - Windows Internet Explorer' and the address bar shows 'http://192.168.3.200/vopadmin/'. The page header includes the 3Com logo and '3Com® VCX™ V7000 Networked Telephony Solution'. Below the header are navigation links: 'USERS', 'DIRECTORY', 'SEARCH', 'PREFERENCES', 'MAIN', and 'LOG OUT'. The main content area is titled 'User - Assigned Phones' and shows 'User: CyberData Lab VoIP Intercom' and 'Found 1 Phone(s)'. There are buttons for 'Assign Phones', 'Unassign Selected', 'Delete Selected', and 'Cancel'. A filter dropdown is set to 'Phone Address' with a search box and a 'Go' button. A table lists the assigned phone with columns: Phone Address, Display Name, Phone Profile, MAC, Status, and Actions. The table contains one row with the phone address '2000', display name 'Video_2000', profile 'Simple Profile', and status 'Enabled'. The 'Assign Phones' button is highlighted with a red box and a callout that says 'Click here to assign extensions to the user'. The user name 'CyberData Lab VoIP Intercom' is also highlighted with a red box and a callout that says 'The user name selected previously is displayed here'.

10. Select the **Assign Phone** button to list all of the available extensions. The web page shown in [Figure 9](#) is now displayed. You may select one or more extensions to assign to this user.

11. To assign multiple extensions, put a check mark on each box next to the extension.
12. Click the **Assign Selected** button, and all of the marked selected extensions are now associated with this user.

Figure 9. User—Unassigned Phones Page

The screenshot shows the 'User - Unassigned Phones' page for the user 'CyberData Lab VoIP Intercom'. The page displays a table of unassigned phones. The table has the following columns: Phone Address, Display Name, Phone Profile, and Action. There are seven rows of phone entries, each with a checkbox in the first column. A red box highlights the checkboxes, with a callout saying 'Click these boxes to assign more the one extension'. Another red box highlights the 'Assign Selected' button, with a callout saying 'Click here to assign all marked extensions to this user'.

	Phone Address	Display Name	Phone Profile	Action
<input type="checkbox"/>	2019	Wifi_2019	Simple Profile	Assign
<input type="checkbox"/>	2020	Wifi_2020	Simple Profile	Assign
<input type="checkbox"/>	2021	Wifi_2021	Simple Profile	Assign
<input type="checkbox"/>	2095	Video_2095	Simple Profile	Assign
<input type="checkbox"/>	2096	Video_2096	Simple Profile	Assign
<input type="checkbox"/>	2097	Video_2097	Simple Profile	Assign
<input type="checkbox"/>	2098	Video_2098	Simple Profile	Assign

4.2 Setup CyberData Device Parameters

To setup CyberData device parameters,

1. Log into the CyberData Configuration Home page (Figure 10) by pointing your browser to the Intercom's IP address.

Figure 10. CyberData Home Page



SIP Setup button

For the initial configuration of the Intercom, refer to the Operation Guide of the Intercom that you have which can be found at the following web address:

<http://www.cyberdata.net/support/download.html>

Note You may also download CyberData's VoIP Discovery Utility program which allows you to easily find and configure the default web address of the CyberData VoIP Intercom. CyberData's VoIP Discovery Utility program is available at the following web address:

http://www.cyberdata.net/support/voip/discovery_utility.html

2. Type the username and password to log into the **CyberData Home Page**.

3. On the CyberData Home Page (Figure 10), click on the SIP Setup button. This will take you to the SIP Setup page (Figure 11).

Figure 11. CyberData Home Page

CyberData Corporation
VOIP INTERCOM

SIP Setup

SIP Server:	<input type="text" value="192.168.3.200"/>	*
Outbound Proxy:	<input type="text"/>	*
Remote SIP Port:	<input type="text" value="5060"/>	*
Local SIP Port:	<input type="text" value="5060"/>	*
SIP User ID:	<input type="text" value="2099"/>	*
Authenticate ID:	<input type="text" value="2099"/>	*
Authenticate Password:	<input type="text" value="12345"/>	*
SIP Registration:	<input checked="" type="radio"/> Yes <input type="radio"/> No	*
Reregistration Interval (minutes):	<input type="text" value="2"/>	*
Dial-Out Extension:	<input type="text" value="2193"/>	*

** changing this parameter causes system reboot when saved*

[Save Settings](#)

[Home Page](#) [Intercom Setup](#) [Network Setup](#) [Sensor Setup](#) [Upgrade Firmware](#)

Save Settings button

4. For a quick summary of all of the necessary settings on the **SIP Setup** page (Figure 11), see Table 3. For a step-by-step description of the necessary settings, go to Step 5.

Note If a setting parameter is not listed in Table 3 or Step 5, then your input for that setting parameter is not required.

Table 3. SIP Setup Page Settings

SIP Setup Page Items	Setting
SIP Server	Type the address of the VCX.
SIP User ID	Type the phone extension used in Step 4 of Section 4.1, "VCX Configuration".
Authentication ID	Type the phone extension used in Step 4 of Section 4.1, "VCX Configuration".
Authentication Password	Type in the password used in Step 4 of Section 4.1, "VCX Configuration".
SIP Registration	Select Yes .
Unregister on Reboot	Select No .
Register expiration (minutes)	Type 2 .
Dial-Out Extension	Type an extension number that you want the Intercom to call.
Save Settings button	Click on the Save Settings button only after you have finished configuring all of the settings on the SIP Setup page.

5. On the **SIP Setup** page (Figure 11), complete the following steps:
- In the **SIP Server** field, type the address of the VCX server.
 - In the **SIP User ID** field, type the phone extension used in Step 4 of Section 4.1, "VCX Configuration".
 - In the **Authentication ID** field, type the phone extension used in Step 4 of Section 4.1, "VCX Configuration".
 - In the **Password** field, type in the password used in Step 4 of Section 4.1, "VCX Configuration".
 - For **SIP Registration**, select **Yes**.
 - For the **Unregister on Reboot** field, select **No**.
 - In the **Register expiration (minutes)** field, type **2**.
 - In the **Dial-Out Extension** field, type an extension number that you want the Intercom to call.
6. Click on the **Save Settings** button.

-
7. After clicking on the **Save Settings** button, a reboot timer countdown will begin.

Figure 12. Reboot Timer



8. After the Intercom reboots, the green **Status** LED will blink at one second intervals to indicate normal operation.
- Note** If **Yes** is selected for **Speaker Beep After Initialization** on the **Setup** page of the Intercom (not shown), you will hear a tone after the initialization sequence is complete.
9. To test the Intercom, complete the following steps:
- Pick up any phone that is configured to the VCX system and call the Intercom's extension number.
 - When a connection is established (as indicated by a beep), speak into the phone and verify that you can hear your voice through the Intercom.
 - Hang up the phone and press the Call Button on the Intercom.
 - When the phone rings, pick up the phone. Speak into the phone and verify that you can hear your voice through the Intercom.

This step completes the procedure.

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