

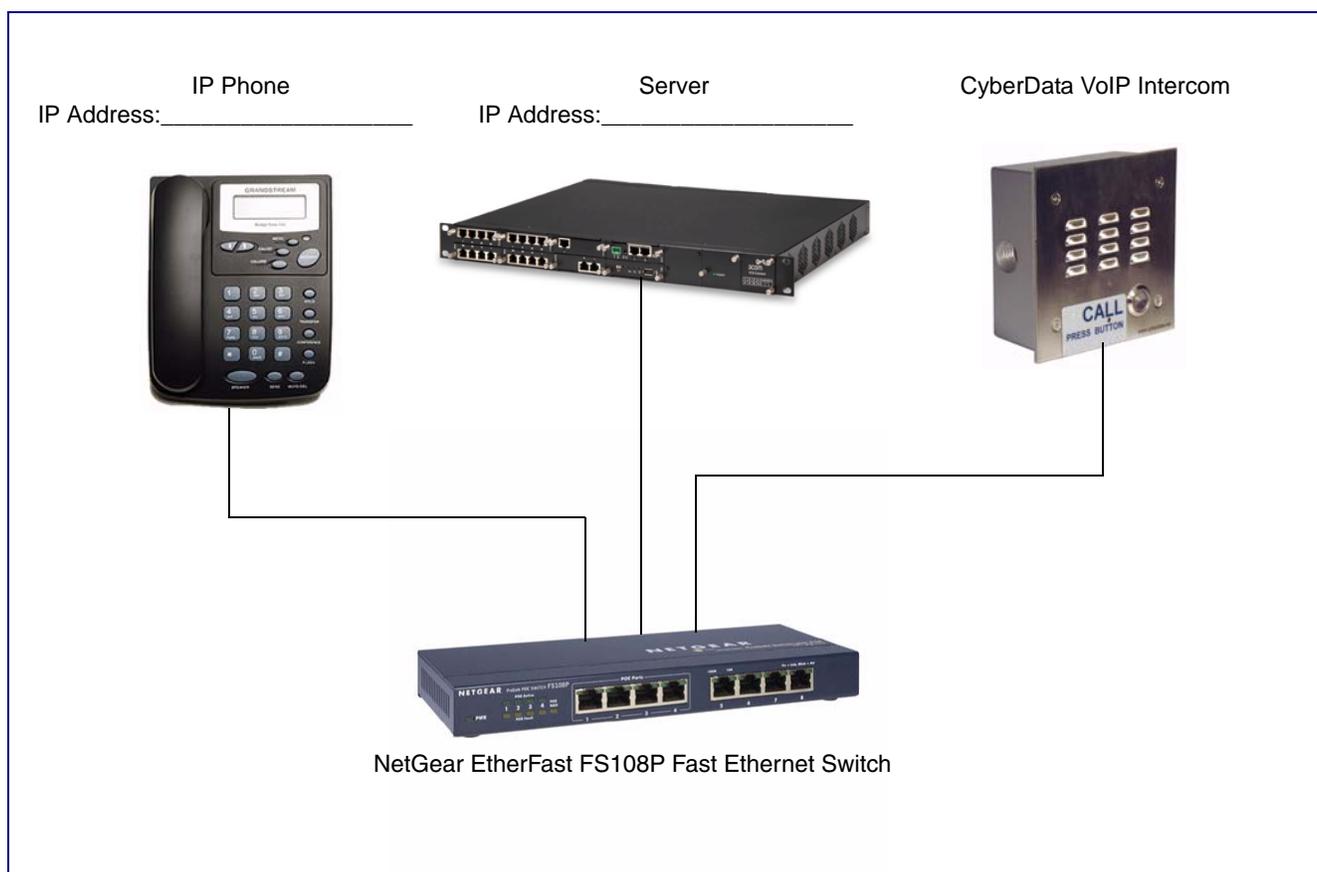


3COM VCX PBX Server VoIP Intercom Setup Guide

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:		

4.0 Setup Procedure

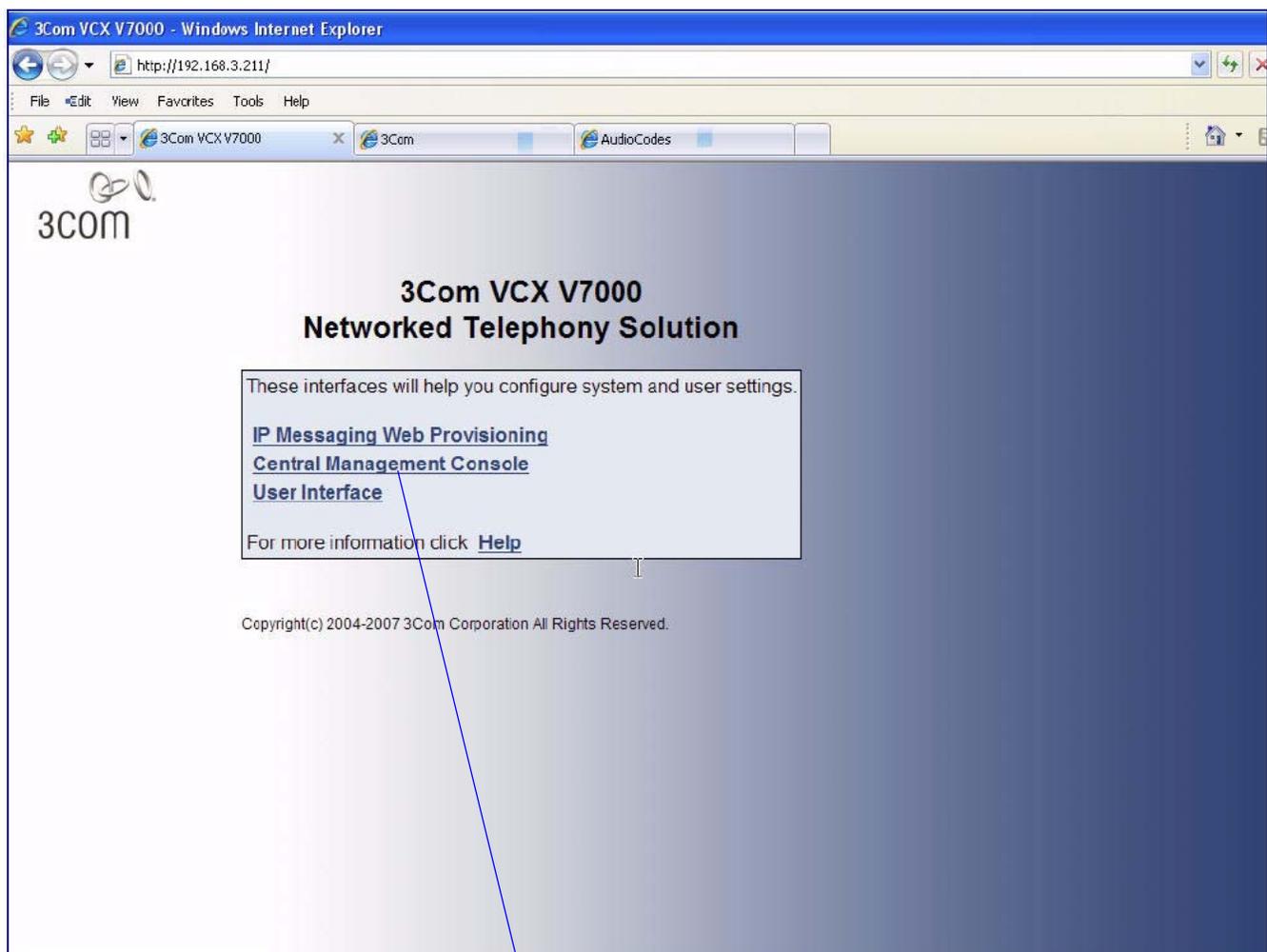
4.1 VCX Configuration

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](#).

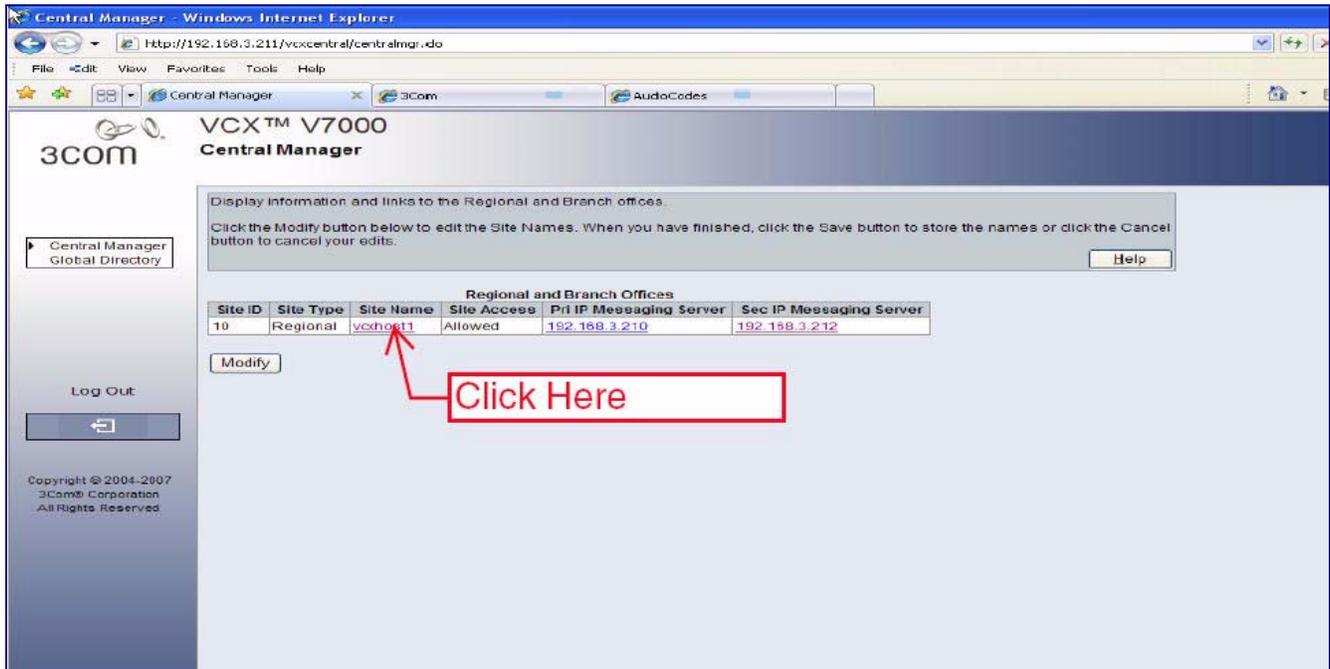
Figure 2. Central Management Console



Central Management Console

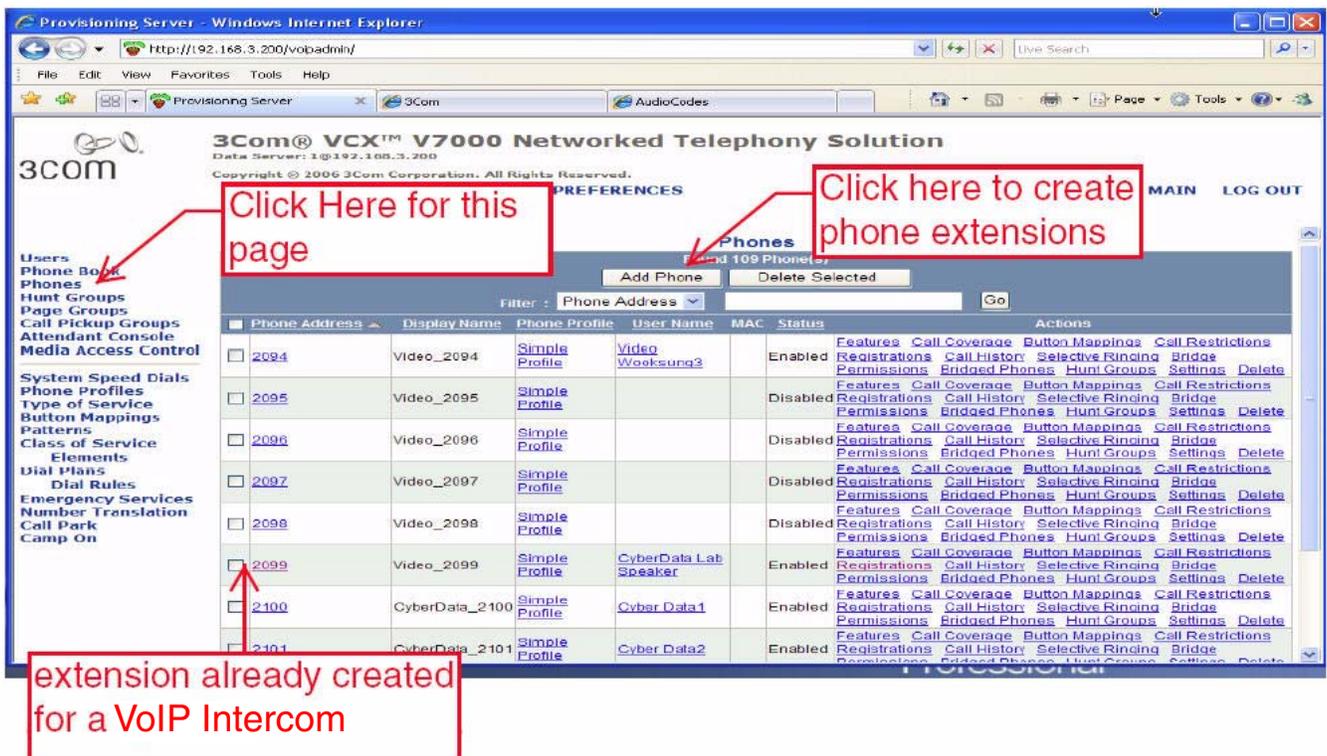
2. Click on the Site Name.

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' form in the 3Com V7000 web interface. The form is titled 'Edit Phone' and is divided into 'Phone Information' and 'Public Information' sections. The 'Phone Information' section contains the following fields:

- * Phone Extension: 2099
- * Display Name: Video_2099
- Status: Enabled
- * Phone Password: *****
- * Confirm Password: *****
- Location: (empty)

The 'Public Information' section contains:

- Exclude from Phone Book:
- 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'.

Red callout boxes provide additional context:

- "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 the 3Com V7000 web interface. The page title is 'Users' and it indicates 'Found 103 User(s)'. There is an 'Add User' button and a 'Delete Selected' button. Below these is a table of users:

	Name	E-mail	Weblogin User Name	Phones	Address
<input type="checkbox"/>	CTI_Group2	cgroup2		Phones	Address
<input type="checkbox"/>	CTI_Group3	cgroup3		Phones	Address
<input type="checkbox"/>	CTI_Group4	cgroup4		Phones	Address
<input type="checkbox"/>	CTI_Group5	cgroup5		Phones	Address
<input type="checkbox"/>	Cyber_Data1	cdata1		Phones	Address
<input type="checkbox"/>	Cyber_Data2	cdata2		Phones	Address
<input type="checkbox"/>	Cyber_Data3	cdata3		Phones	Address
<input type="checkbox"/>	Cyber_Data4	cdata4		Phones	Address
<input type="checkbox"/>	Cyber_Data5	cdata5		Phones	Address
<input type="checkbox"/>	CyberData Lab VoIP Intercom	cspeaker		Phones	Address

Red callout boxes provide additional context:

- 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

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 3Com VCX V7000 Networked Telephony Solution web interface. The page title is "User - Assigned Phones" and it shows the user "CyberData Lab VoIP Intercom" with one assigned phone. The table below shows the details of the assigned phone.

Phone Address	Display Name	Phone Profile	MAC	Status	Actions
<input type="checkbox"/> 2000	Video_2000	Simple Profile		Enabled	Features Call Coverage Button Mappings Call Restrictions Registrations Call History Selective Ringing Bridge Permissions Bridged Phones Hunt Groups Settings Unassign Delete

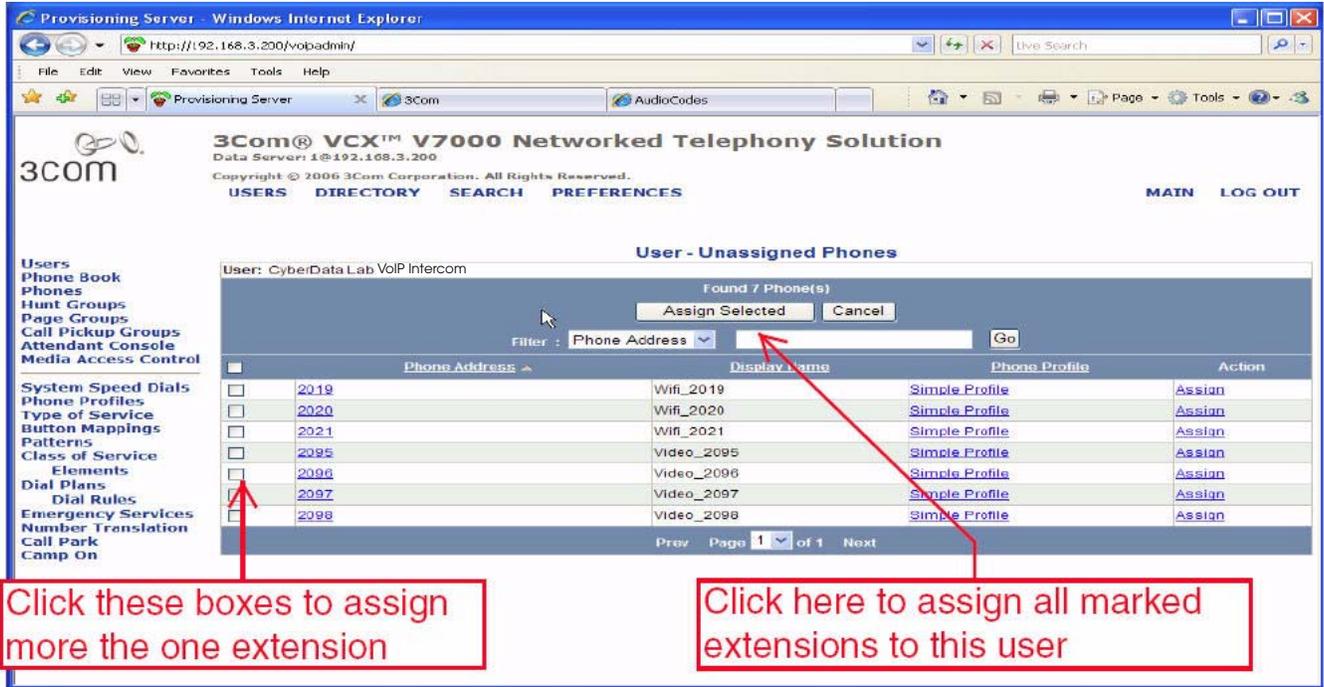
Annotations in the image:

- A red box points to the "Assign Phones" button with the text: "Click here to assign extensions to the user".
- A red box points to the user name "CyberData Lab VoIP Intercom" with the text: "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

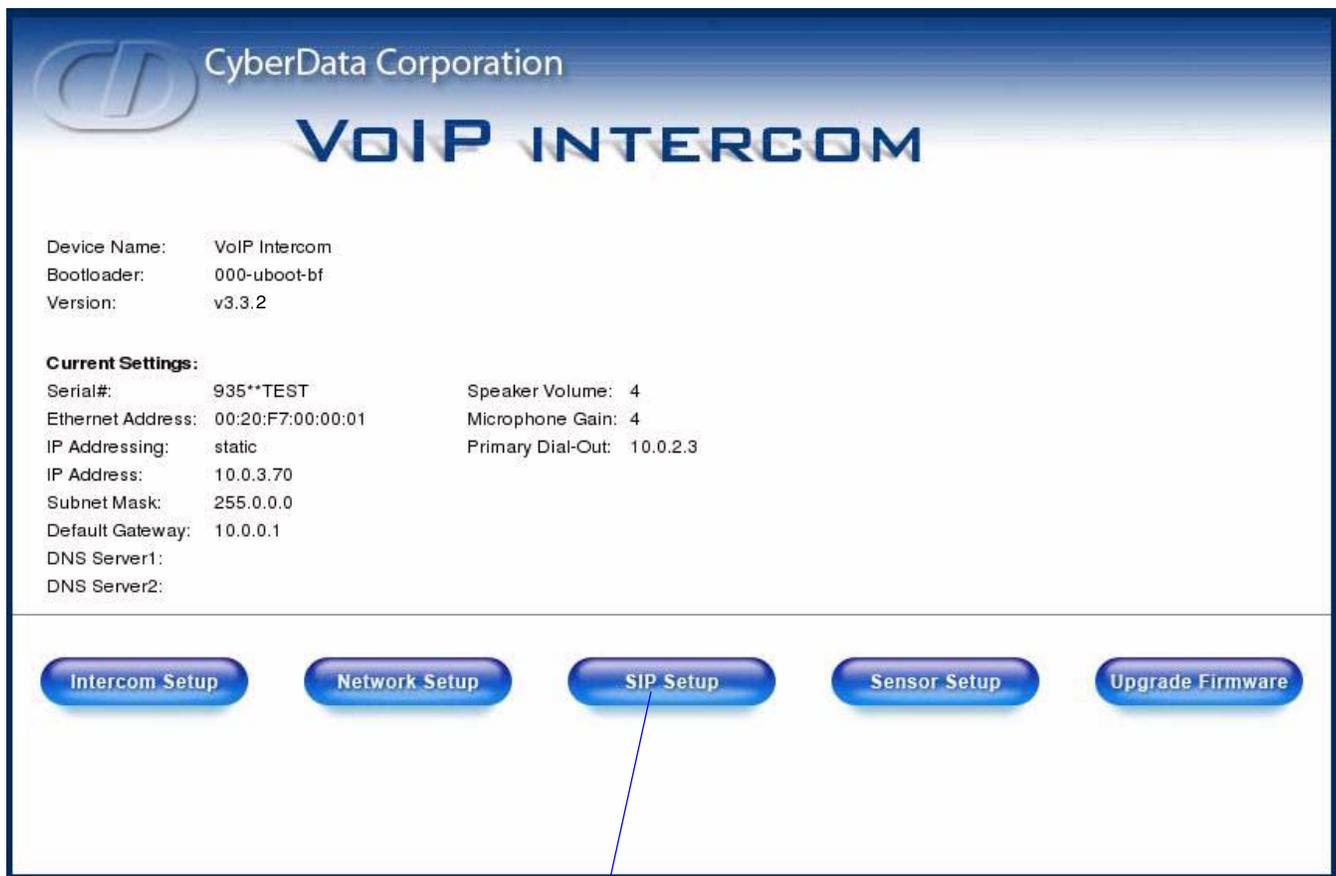


4.2 Setup CyberData Device Parameters

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.