

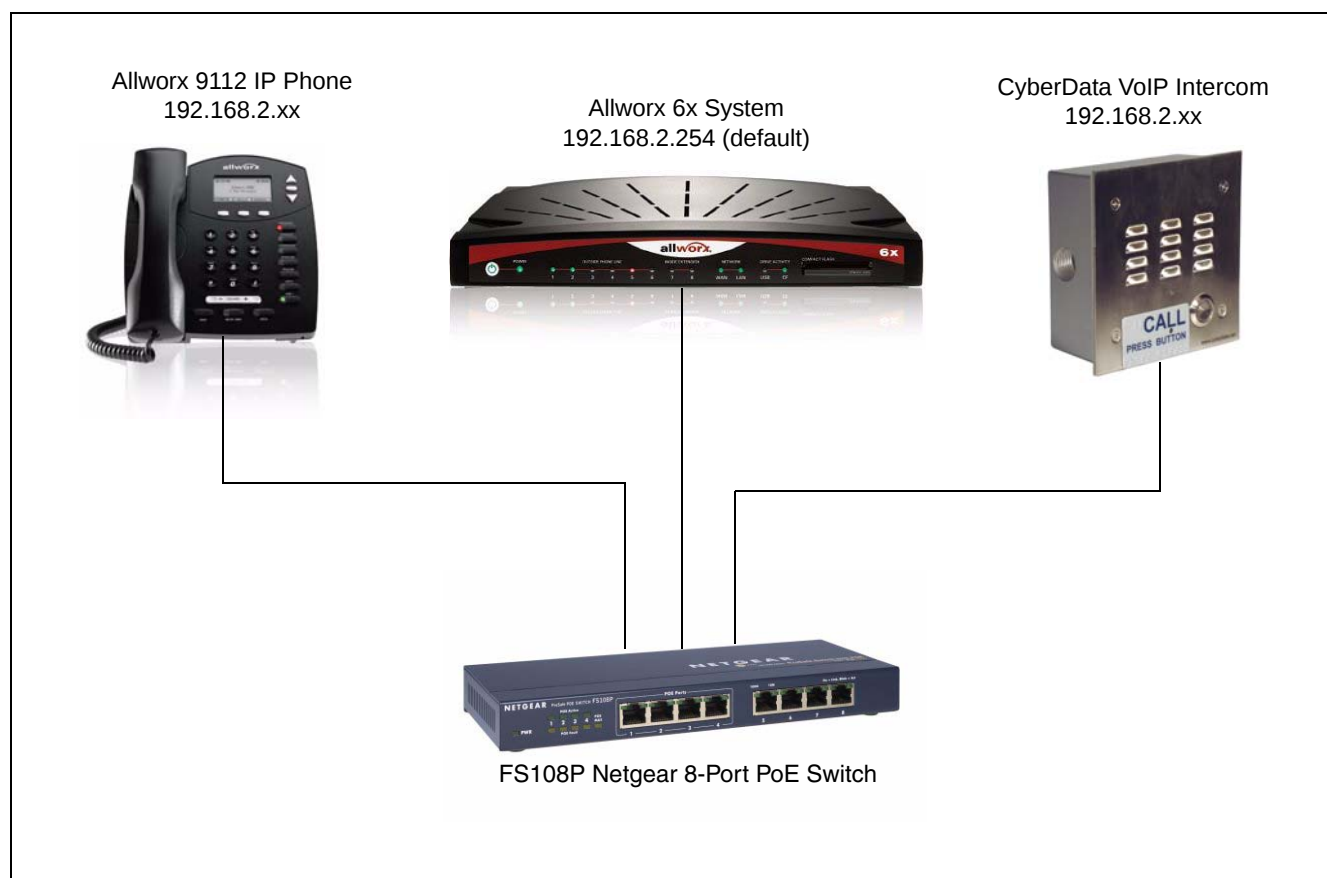


VoIP Intercom with Allworx 6x Server Setup Guide

1.0 Setup Diagram

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

Figure 1-1. Setup Diagram



2.0 Host PC Environment

Table 2-1. Host PC Environment Details

Description	
Hardware Type	Allworx 6x
Hardware Version	Configuration 04
Software Type	
Software Version	6.8.3.1

3.0 Test Setup Equipment

Table 3-1. Test Setup Equipment

Equipment	Model	Version
Allworx VoIP Phone	9112	1.8.2.1
Notes:		
Allworx System	6x	6.8.3.1
Notes:		
CyberData VoIP Intercom	010935B	3.2.1
Notes:		
FS108P Netgear 10/100 8-Port PoE Switch	FS108P	1.0
Notes:	SERIAL #1DL1653G0017E	
Notes:		
Notes:		
Notes:		
Notes:		
Notes:		

4.0 Setup Procedure

To set up the Allworx 6x SIP Server for the VoIP Intercom,

1. Go to the **Login** page. By default, the login can be found at the following web address:
192.168.2.254:8080
2. On the **Login** page, enter the password and click on **Login** to go to the **Home** page. The default password is **admin**.

Figure 4-2. Login

Welcome to Allworx

allworx®

[About Allworx](#)

**Your login session has expired.
Please login again.**

For access to the Allworx
administration web pages, please
enter the administration password.

Password

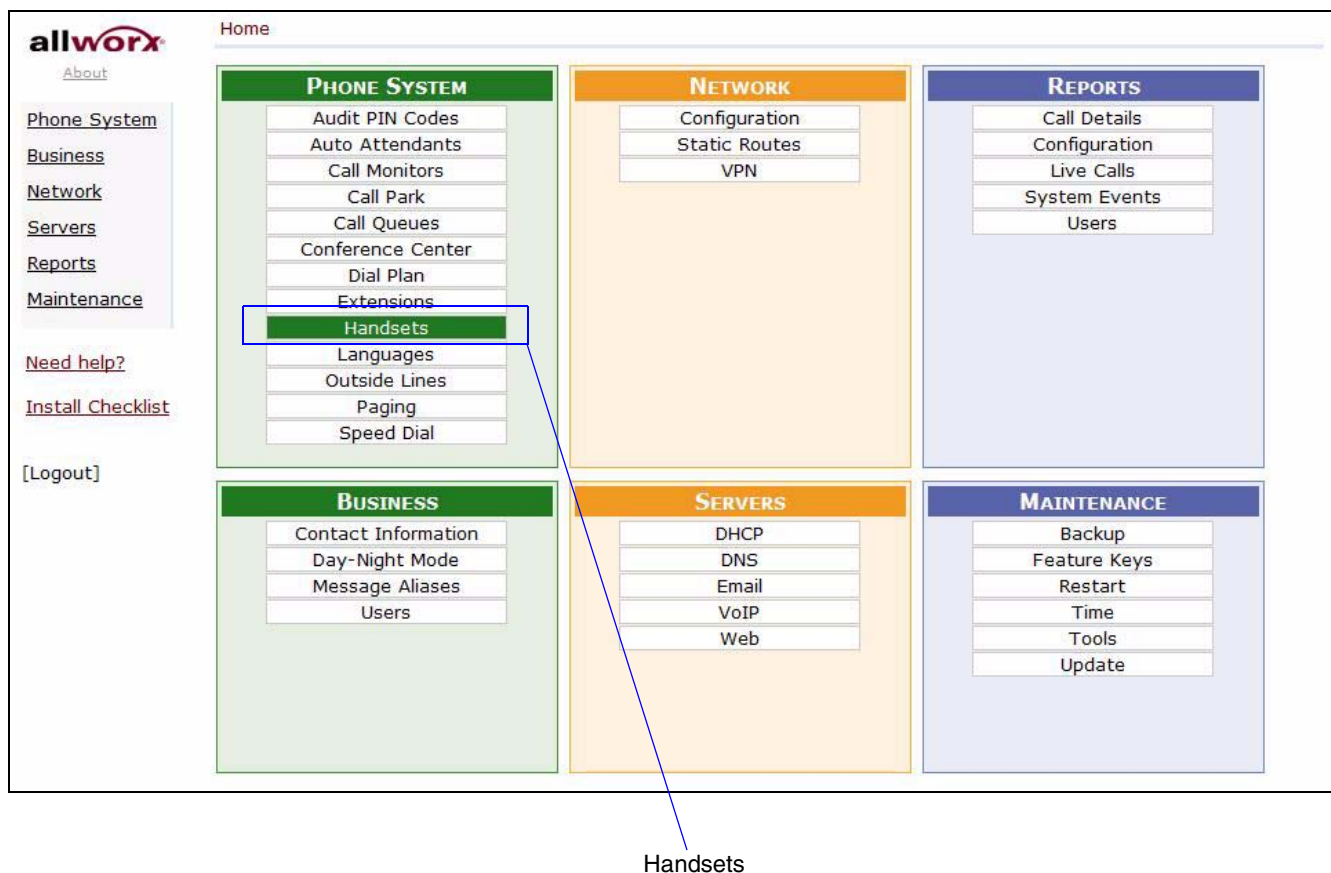
[Lost Password](#)

Password

Login

3. On the **Home** page, go to the **PHONE SYSTEM** section and click on **Handsets** to go to the **Handsets** page.

Figure 4-3. Home Page



- On the **Handsets** page, go to the **SIP Handsets** section and click on **Add new SIP Handsets** to go to the **Add new SIP Handsets** page.

Figure 4-4. Handset Page

The screenshot shows the Allworx web interface for the Handset page. The breadcrumb trail is [Home](#) > [Phone System](#) > [Handsets](#). The left sidebar contains a 'Phone System' menu with links: [Audit PIN Codes](#), [Auto Attendants](#), [Call Monitors](#), [Call Park](#), [Call Queues](#), [Conference Center](#), [Dial Plan](#), [Extensions](#), [Handsets](#), [Languages](#), [Outside Lines](#), [Paging](#), [Speed Dial](#), [Business](#), [Network](#), [Servers](#), [Reports](#), and [Maintenance](#). Below the sidebar are links for [Need help?](#), [Install Checklist](#), and a [\[Logout\]](#) button.

The main content area has a sub-header [Home > Phone System > Handsets](#) and a navigation bar with [Analog Handsets](#), [SIP Handsets](#), and [Handset Configuration Templates](#). The **SIP Handsets** section is active, showing a table with columns: Handset, Line, Owner, CallerID, Identification, and Action. A blue box highlights the [add new SIP Handset](#) link above the table. The table lists three handsets, all with 'Allworx9112' as the model and '1' as the line. The first two have 'registration expired' status, while the third is active. Each row has links for [View Configuration](#), [Add](#), [Call Appearance](#), [Reboot Phone](#), and [Replace Phone](#). Below the table is the **Handset Configuration Templates** section, which lists various models and their descriptions, with links to [View](#) or [Activate](#).

Handset	Line	Owner	CallerID	Identification	Action
Allworx9112	1			MAC: 00-0A-DD-81-7E-9F User ID: 5100 Login ID: 5100 192.168.2.1:5060 (registration expired)	Modify Delete Ring
Allworx9112	1			MAC: 00-0A-DD-81-C6-D9 User ID: 5101 Login ID: 5101 192.168.2.3:5060 (expires: Nov 19, 2008 04:38 pm)	Modify Delete Ring
Allworx9112	1			MAC: 00-0A-DD-81-BE-C2 User ID: 5102 Login ID: 5102 192.168.2.4:5060 (expires: Nov 19, 2008 04:38 pm)	Modify Delete Ring

Model	Description	Action
Allworx 9112	9112 (Factory - Key)	View Activate
Allworx 9112	9112 (Factory - PBX) [ACTIVE]	View
Allworx 9102	9102 (Factory) [ACTIVE]	View
Allworx 9212	9212 (Factory - Key)	View Activate
Allworx 9212	9212 (Factory - PBX) [ACTIVE]	View

add new SIP Handset

5. On the **Add SIP Handsets** page, enter the following information as shown in [Figure 4-5](#):

- Caller ID Name
- Description
- Model
- Number of Lines
- Login ID
- Password

Note The information that you enter must match the SIP information in the VoIP Intercom. In [Figure 4-5](#), the Intercom is set for extension **5104**.

Figure 4-5. SIP Handset Add

The screenshot shows the 'Add SIP Handset' page in the Allworx web interface. The page is divided into two main sections: 'SIP Handset' and 'Handset Configuration'. A sidebar on the left contains navigation links for various system settings. A 'TIP' box on the right provides additional context. Blue lines with labels at the bottom point to specific fields in the form.

SIP Handset Section:

- Owner:** {none}
- Extension:** --- (optional, see TIP)
- Caller ID Number:** user owner's extension
- Caller ID Name:** 5104
- Description:** VoIP Intercom

Handset Configuration Section:

- Model:** Generic SIP
- Number of Lines:** 1
- Login ID:** 5104
- Password:** ••••••
- ☐ Phone will download configuration file from Allworx
- MAC Address:** [Yellow highlighted field]
- SIP Protocol Port:** 5060

Buttons: Add, Cancel

Labels at the bottom pointing to fields: Password, Add, Login ID, Model, Number of Lines, Description, Caller ID Name.

Note Figure 4-6 is an example of a CyberData VoIP Intercom that is configured as extension 5104 and configured to call extension 5101.

Figure 4-6. VoIP Intercom Configured to Extension 5104

The screenshot shows a web-based configuration interface titled "SIP Setup". It contains several input fields for SIP parameters, each followed by an asterisk indicating a required field. The fields and their values are: SIP Server (192.168.2.254), Outbound Proxy (empty), Remote SIP Port (5060), Local SIP Port (5060), SIP User ID (5104), Authenticate ID (5104), Authenticate Password (ext5104), SIP Registration (radio buttons for Yes and No, with Yes selected), Register Expiration (minutes) (1440), and Dial-Out Extension (5101). Below the fields is a note: "* changing this parameter causes system reboot when saved". At the bottom is a blue "Save Settings" button.

SIP Server:	192.168.2.254	*
Outbound Proxy:		*
Remote SIP Port:	5060	*
Local SIP Port:	5060	*
SIP User ID:	5104	*
Authenticate ID:	5104	*
Authenticate Password:	ext5104	*
SIP Registration:	☒ Yes ☐ No	*
Register Expiration (minutes):	1440	*
Dial-Out Extension:	5101	*

** changing this parameter causes system reboot when saved*

Save Settings

6. Click **Add** to go back to the **SIP Handsets** page.

7. Upon returning to the **SIP Handsets** page, you will see **(never registered)** in the **Identification** column of the **Generic SIP** section.

Figure 4-7. SIP Handset Never Registered

The screenshot shows the Allworx Phone System interface. The left sidebar contains navigation links for Phone System, Business, Network, and Maintenance. The main content area is titled 'Handsets' and includes tabs for Analog Handsets, SIP Handsets, and Handset Configuration Templates. The SIP Handsets section displays a table with columns: Handset, Line, Owner, Caller ID, Identification, and Action. The table lists three SIP handsets (Allworx 9112) and one Generic SIP handset (VoIP Intercom). The VoIP Intercom handset is highlighted with a blue box around the text '(never registered)' in the Identification column.

Handset	Line	Owner	Caller ID	Identification	Action
Allworx 9112	1			MAC: 00-0A-DD-81-7E-9F User ID: 5100 Login ID: 5100 192.168.2.1:5060 (registration expired)	View Configuration Add Call Appearance Reboot Phone Replace Phone
Allworx 9112	1			MAC: 00-0A-DD-81-C6-D9 User ID: 5101 Login ID: 5101 192.168.2.3:5060 (expires: Nov 19, 2008 05:08 pm)	View Configuration Add Call Appearance Reboot Phone Replace Phone
Allworx 9112	1			MAC: 00-0A-DD-81-BE-C2 User ID: 5102 Login ID: 5102 192.168.2.4:5060 (expires: Nov 19, 2008 05:08 pm)	View Configuration Add Call Appearance Reboot Phone Replace Phone
Generic SIP	1		5104	User ID: 5104 Login ID: 5104 (never registered)	View Configuration Add Call Appearance Reboot Phone Replace Phone

(never registered) in the Identification column

8. To register the Intercom, you will need to reboot the Intercom by logging into the CyberData Configuration Home page.

9. Log into the CyberData Configuration Home page (Figure 4-8) by pointing your browser to the Intercom's IP address.

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

<http://www.cyberdata.net/support/voip/intercom.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 products. CyberData's VoIP Discovery Utility program is available at the following web address:

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

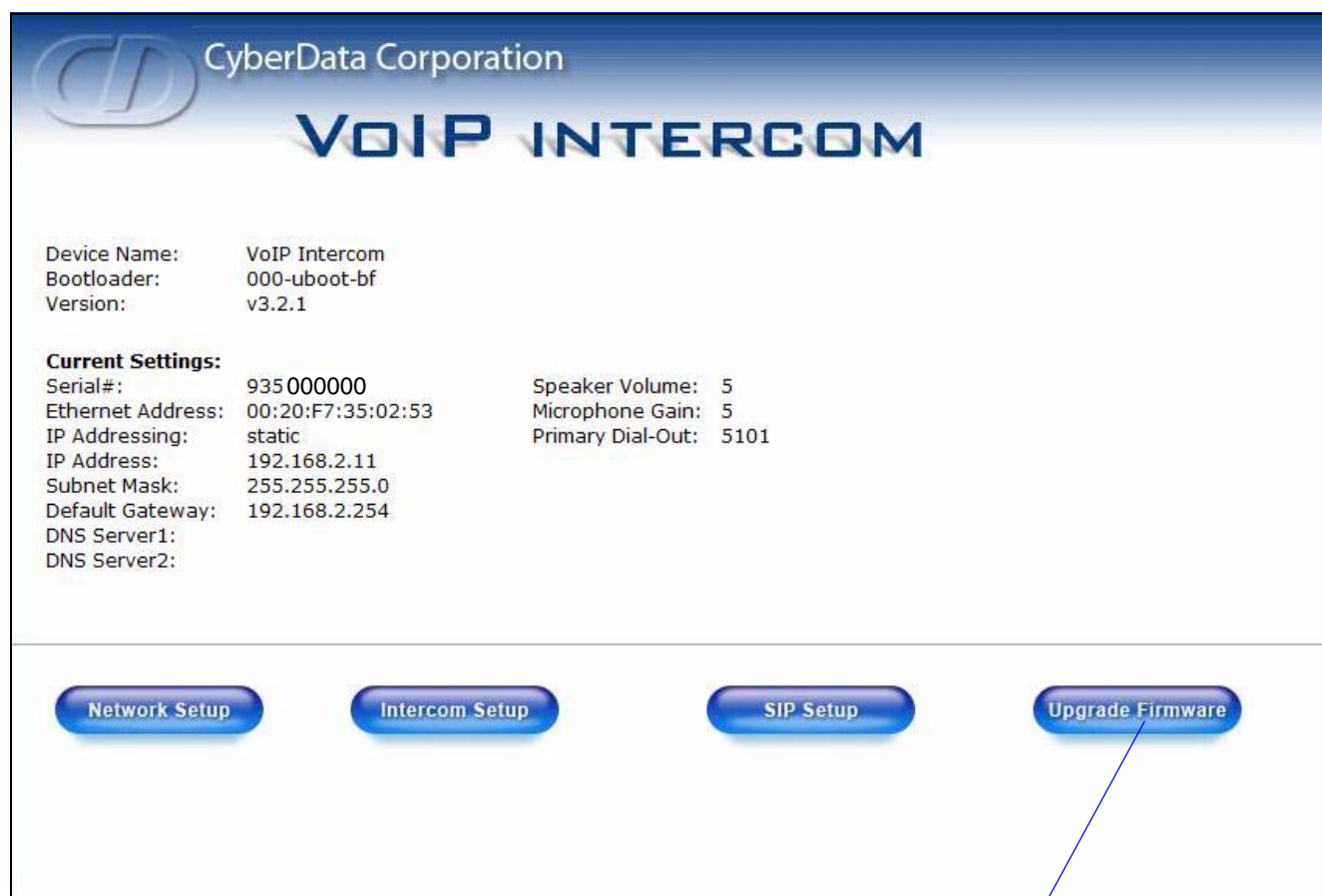
10. When prompted, enter the following **Web Access Username** and **Web Access Password** to access the CyberData Configuration Home page (Figure 4-8):

Default Login:

Web Access Username: **admin**

Web Access Password: **admin**

Figure 4-8. CyberData Configuration Home Page



Upgrade Firmware

11. Click **Upgrade Firmware** to open the **Firmware Upgrade** page.

12. On the **Upgrade Firmware** page, click on **Reboot**.

Figure 4-9. Reboot VoIP Intercom

CyberData Corporation
VOIP INTERCOM

Firmware Upgrade

System Configuration

Firmware: v3.2.1

TFTP Server IP: 192.168.3.1

New Filename:

Reboot System

Reboot

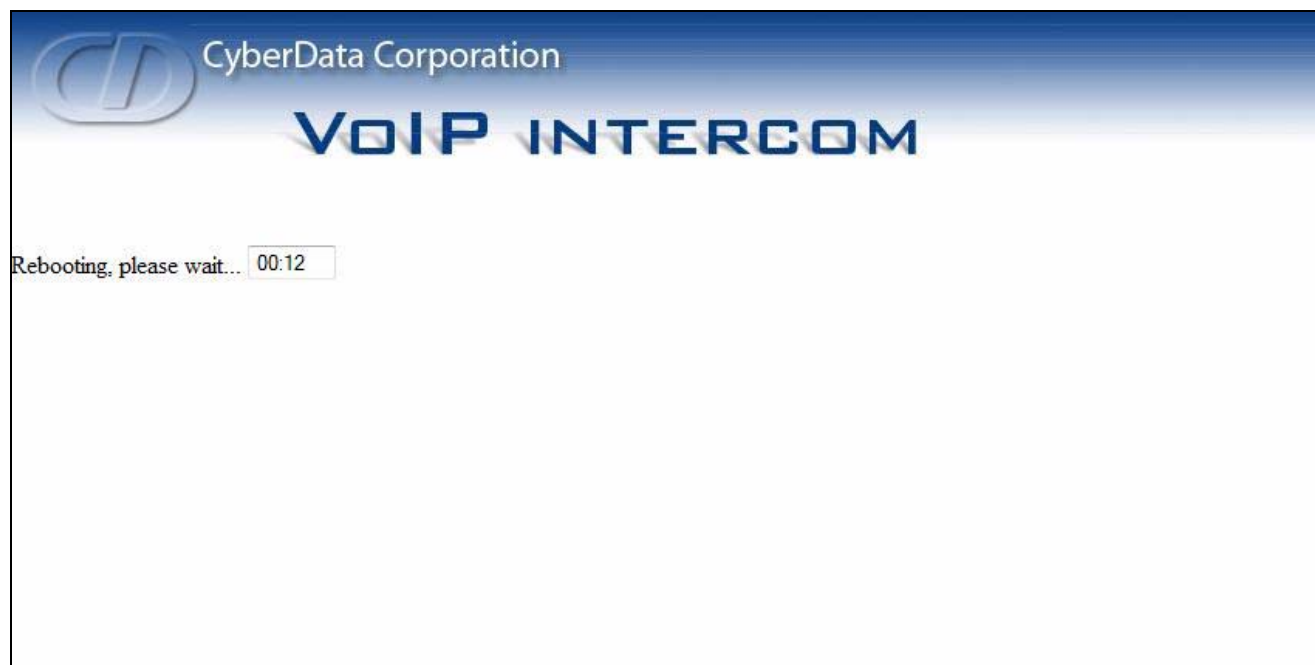
Upload File

Network Setup Intercom Setup SIP Setup Home Page

Reboot

-
13. After clicking on **Reboot**, a reboot timer countdown will begin.

Figure 4-10. Intercom Reboot Timer



14. Refresh the **SIP Handsets** web page and verify that the Intercom is registered. The **Identification** column of the **Generic SIP** row shows the address and port that the Intercom is using.

Figure 4-11. Successfully Registered Intercom

The screenshot shows the Allworx web interface. The left sidebar contains a 'Phone System' menu with various options like 'Audit PIN Codes', 'Auto Attendants', 'Call Monitors', etc. The main content area is titled 'Handsets' and contains two tables: 'Analog Handsets' and 'SIP Handsets'. The 'SIP Handsets' table has columns for 'Handset', 'Line', 'Owner', 'Caller ID', 'Identification', and 'Action'. The 'Generic SIP' row is highlighted, showing a 'VoIP Intercom' on line 1 with caller ID 5104. The 'Identification' column for this row displays the user ID, login ID, IP address, and port number: 'User ID: 5104', 'Login ID: 5104', '192.168.2.11:5060', and '(expires: Nov 26, 2008 04:11 pm)'. A blue box highlights the IP address and port number, and a blue arrow points from the text 'Address and Port Number' below to this box.

Handset	Line	Owner	Caller ID	Identification	Action
Allworx 9112	View	Configuration	Add	Call Appearance	Reboot Phone Replace Phone
000add817e9f	1			MAC: 00-0A-DD-81-7E-9F User ID: 5100 Login ID: 5100 192.168.2.1:5060 (registration expired)	Modify Delete Ring
Allworx 9112	View	Configuration	Add	Call Appearance	Reboot Phone Replace Phone
000add81c6d9	1			MAC: 00-0A-DD-81-C6-D9 User ID: 5101 Login ID: 5101 192.168.2.3:5060 (expires: Nov 19, 2008 05:08 pm)	Modify Delete Ring
Allworx 9112	View	Configuration	Add	Call Appearance	Reboot Phone Replace Phone
000add81bec2	1			MAC: 00-0A-DD-81-BE-C2 User ID: 5102 Login ID: 5102 192.168.2.4:5060 (expires: Nov 19, 2008 05:08 pm)	Modify Delete Ring
Generic SIP					
VoIP Intercom	1		5104	User ID: 5104 Login ID: 5104 192.168.2.11:5060 (expires: Nov 26, 2008 04:11 pm)	Modify Delete Ring

Address and Port Number

15. To test the Intercom, pick up any phone that is configured to the Allworx system and call the Intercom's extension number.
16. When a connection is established, speak into the phone and verify that you can hear your voice through the Intercom speaker.

