

# IXW-PBXA

## Programming Guide



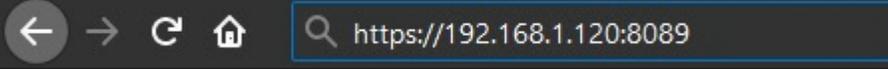
### Table of Contents

<b>Page 2</b>	<b>Logging into the IXW-PBXA</b> <i>- Where to locate the password for the IXW-PBXA, and how to log into the device</i>
<b>Page 2-4</b>	<b>Setup Wizard</b> <i>- Step-by-step instructions for the initial setup of the IXW-PBXA</i>
<b>Page 5</b>	<b>SIP Settings</b> <i>- Configure the SIP settings for the IXW-PBXA</i>
<b>Page 6</b>	<b>Editing Extensions</b> <i>- Adding IX Series devices to the IXW-PBXA</i>
<b>Page 7</b>	<b>VoIP Trunk Settings</b> <i>- Setting up a VoIP Trunk</i>
<b>Page 8</b>	<b>Analog Trunk Settings</b> <i>- Setting up an Analog Trunk</i>
<b>Page 8-9</b>	<b>Registering a Phone Number</b> <i>- Adding a Phone Number to the Support Tool</i>
<b>Page 9</b>	<b>Adding an Outbound Route rule</b> <i>- Creating an outbound route for analog dial out</i>
<b>Page 10</b>	<b>Registering the IXW-PBXA</b> <i>- Adding the IXW-PBXA to the Support Tool</i>
<b>Page 10</b>	<b>Uploading</b> <i>- Uploading Settings to Stations</i>

## Logging into the IXW-PBXA

Access the IXW-PBXA by entering its IP address and port in a browser. The IP address of the IXW-PBXA will be shown on its LCD screen, and the port used is 8089.

### Example:



### 1.1 - Login

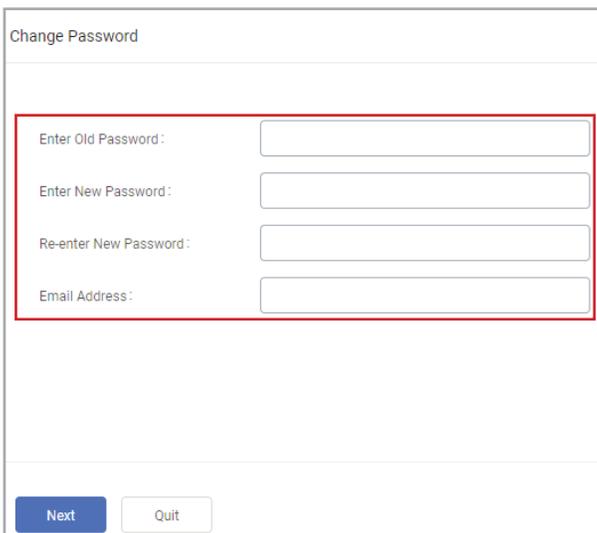
**ID:** admin (default)

**Password:** Found on a sticker on the back of the IXW-PBXA, below the MAC address.



## Setup Wizard - Change Password

When first logging into the IXW-PBXA, you will be prompted to create a new password and enter a valid email address for password recovery.



## Setup Wizard - Network Settings

The network settings for the IXW-PBXA will need to be changed in order for it to communicate with IX Series products. Change the Method to “Switch”. The LAN settings will need to match your local network.

Network Settings

Method: Switch

MTU: 1500

Preferred DNS Server:

LAN

IP Method: Static

\* IP Address: 192.168.1.140

\* Subnet Mask: 255.255.0.0

\* Gateway IP: 192.168.1.1

\* DNS Server 1: 75.75.75.75

DNS Server 2: 75.75.76.76

Layer 2 QoS 802.1Q/VLAN Tag: 0

Layer 2 QoS 802.1p Priority Value: 0

Previous Next Quit

Click **Next**

**Next**

## Setup Wizard - Time Zone

Change the Time Zone to match the location of the IX Series system. The date and time format can be changed to match your own preference.

Select Time Zone

Time Zone: GMT-08:00 (US Pacific Time, Los Angeles)

Self-defined Time Zone: MTZ+6MDT+5,M4.1.0,M11.1.0

Date Format: mm-dd-yyyy

Time Format: Use 24-hour Format

Language:  English : en  
 中文 : zh

Previous Next Quit

Click **Next**

**Next**

## Setup Wizard - Extensions

Extensions are how the IX Series stations are assigned in the IXW-PBXA. Once an extension is created the extension number cannot be edited. For this reason, select Disable Extension Range, and set the Create Number to 1. Set the Start Extension to your first station number, and use a custom SIP Password that will be assigned to all extensions.

Extensions

Can only set SIP extensions.

Disable Extension Range:

Start Extension:

Create Number:

SIP Password:  Use Random Password  
 Use  as Password

Click **Next**

## Setup Wizard - Trunk / Routes

The Trunks / Routes will be assigned in later steps in this guide with more in-depth information. Skip this step by clicking next.

Trunks / Routes

Existing Outbound Rules

Trunk Type	Trunks	Outbound Rule	Inbound Rule
No Data			

Click **Next**

## Setup Wizard - Summary

Review the information from each of the previous steps and click save to move on to the next step.

Click **Save**

## SIP Settings

From the menu bar on the left, expand IXW-PBXA Settings and click SIP Settings. Select the NAT tab and enter the network address in the field labeled Local Network Address.

SIP Settings

General Session Timer TCP/TLS **NAT** ToS STIR/SHAKEN Misc

Cancel Save

If Local Network Address is not configured, External Host will not take effect.

External Host:

Use IP address in SDP:

Get External IP via STUN:

\* External UDP Port:

\* External TCP Port:

\* External TLS Port:

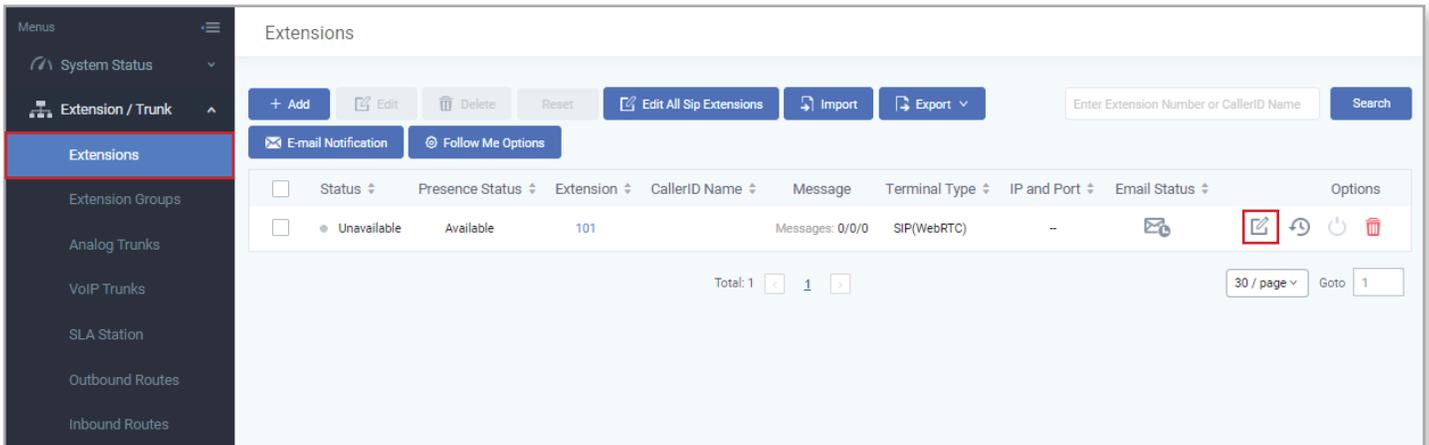
Local Network Address:  /  **Add**

LOCAL NETWORK ADDRESS	SUBNET MASK	OPTIONS
192.168.1.0	24	

Total: 1 10 / page Goto 1

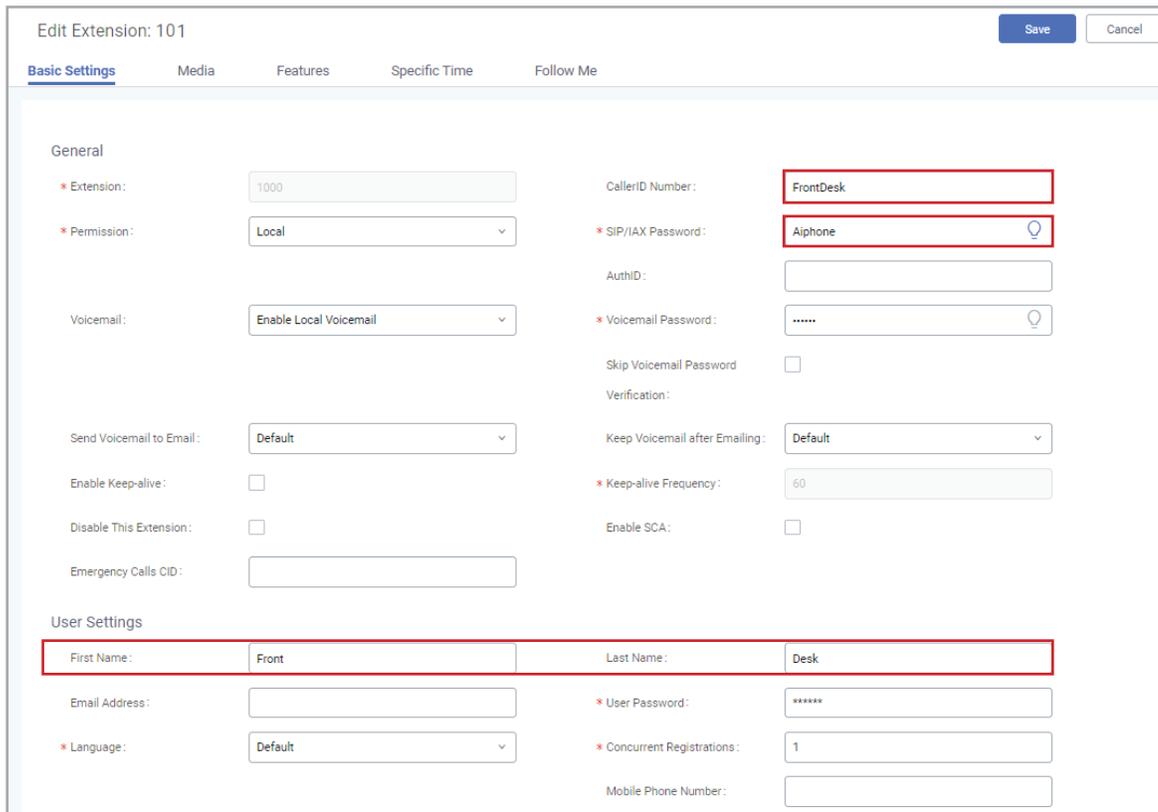
## Editing Extensions

An extension is necessary for each IX Series station to be registered with the IXW-PBXA. The extension number will be assigned to the station in the IX Support Tool in the following steps. To configure this, expand Extension/Trunk :  click Extensions. Click  highlighted below to make changes to the existing extension.



Status	Presence Status	Extension	CallerID Name	Message	Terminal Type	IP and Port	Email Status	Options
Unavailable	Available	101		Messages: 0/0/0	SIP(WebRTC)	--		   

Set the **CallerID Number** to match the Station Name in the IX Support Tool for consistency. The SIP/IAX password was assigned in the previous steps. Make note that this password will be needed when registering the IXW-PBXA.



Edit Extension: 101

Save Cancel

Basic Settings Media Features Specific Time Follow Me

General

\* Extension: 1000

\* Permission: Local

Voicemail: Enable Local Voicemail

Send Voicemail to Email: Default

Enable Keep-alive:

Disable This Extension:

Emergency Calls CID:

CallerID Number: FrontDesk

\* SIP/IAX Password: Alphone

AuthID:

\* Voicemail Password: .....

Skip Voicemail Password:

Verification:

Keep Voicemail after Emailing: Default

\* Keep-alive Frequency: 60

Enable SCA:

User Settings

First Name: Front

Last Name: Desk

Email Address:

\* User Password: .....

\* Language: Default

\* Concurrent Registrations: 1

Mobile Phone Number:

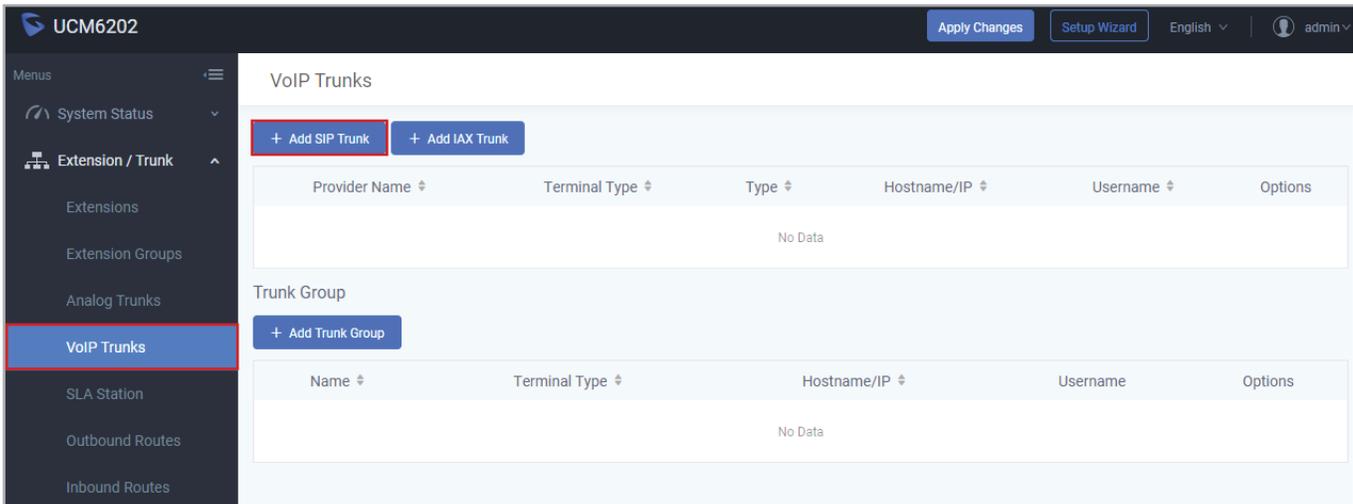
## Adding Additional Extensions



Click  and copy the configuration above for each additional station to be registered.

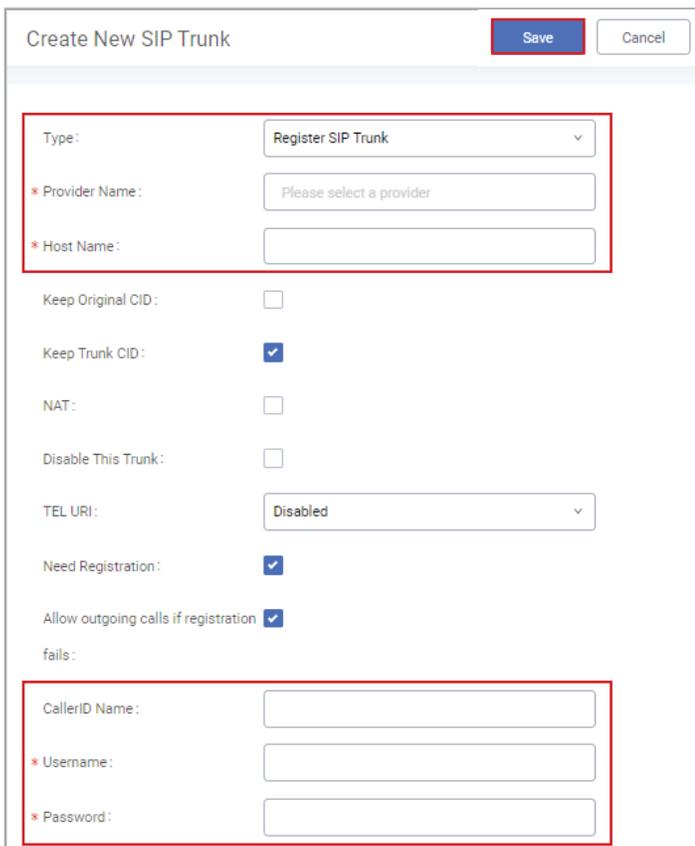
## VoIP Trunk Settings

The IXW-PBXA will allow SIP Trunks to be used for outbound calls. To configure this, expand Extension/Trunk and click VoIP Trunks. At the top of the page click the **Add SIP Trunk** button.



The screenshot shows the UCM6202 interface for VoIP Trunks. The sidebar menu on the left has 'VoIP Trunks' highlighted. The main content area is titled 'VoIP Trunks' and contains two sections. The first section, 'VoIP Trunks', has a '+ Add SIP Trunk' button and a table with columns: Provider Name, Terminal Type, Type, Hostname/IP, Username, and Options. The table is currently empty, showing 'No Data'. The second section, 'Trunk Group', has a '+ Add Trunk Group' button and a table with columns: Name, Terminal Type, Hostname/IP, Username, and Options. This table is also empty, showing 'No Data'. At the top right of the page, there are buttons for 'Apply Changes' and 'Setup Wizard', and a user profile for 'admin'.

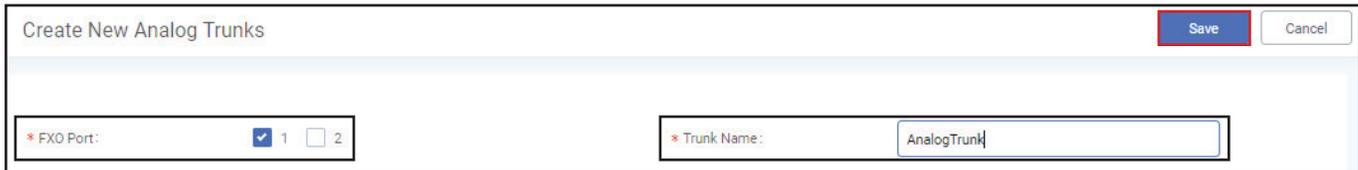
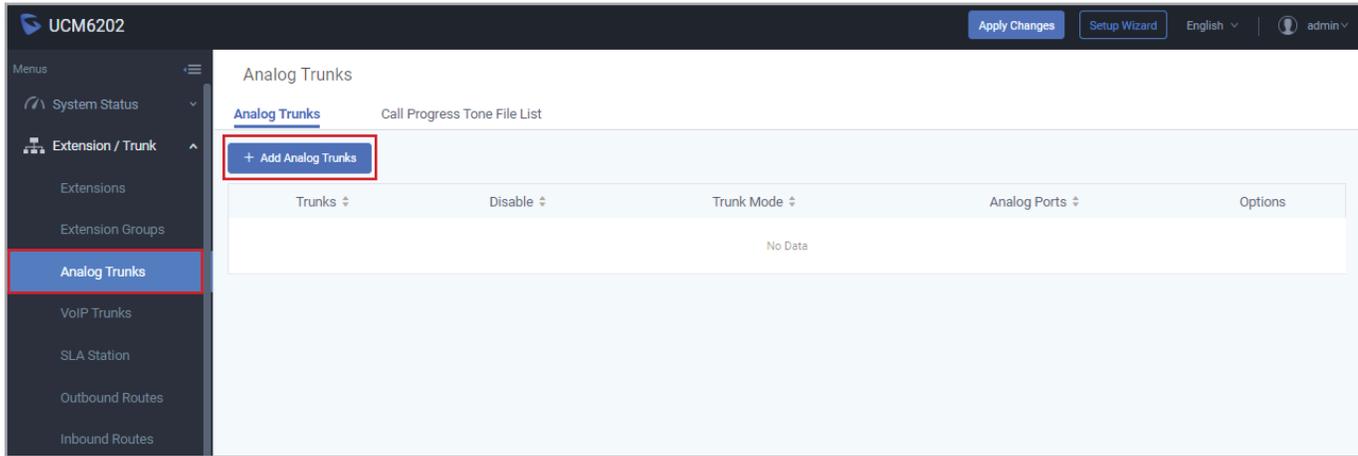
Use the Type drop-down and select **Register SIP Trunk** and enter the **Provider** and **Host Name** of the SIP Trunk service provider. The username and password is also required to create a SIP trunk. Verify this information with the provider of the SIP Trunk.



The screenshot shows the 'Create New SIP Trunk' form. At the top right, there are 'Save' and 'Cancel' buttons. The form contains several fields and checkboxes. The 'Type' dropdown is set to 'Register SIP Trunk'. The 'Provider Name' and 'Host Name' fields are highlighted with a red box. Below these are checkboxes for 'Keep Original CID', 'Keep Trunk CID', 'NAT', and 'Disable This Trunk'. The 'TEL URI' dropdown is set to 'Disabled'. There are checkboxes for 'Need Registration' and 'Allow outgoing calls if registration fails'. At the bottom, the 'CallerID Name', 'Username', and 'Password' fields are highlighted with a red box.

## Analog Trunk Settings

The IXW-PBXA will also allow for Analog Trunks for outbound calls utilizing a POTS line plugged into one of the FXO Ports on the back of the device. To configure this, expand Extension/Trunk and click Analog Trunks. At the top of the page click the Add Analog Trunks button. Once the Create New Analog Trunks page is open, select a FXO Port and enter a trunk name.



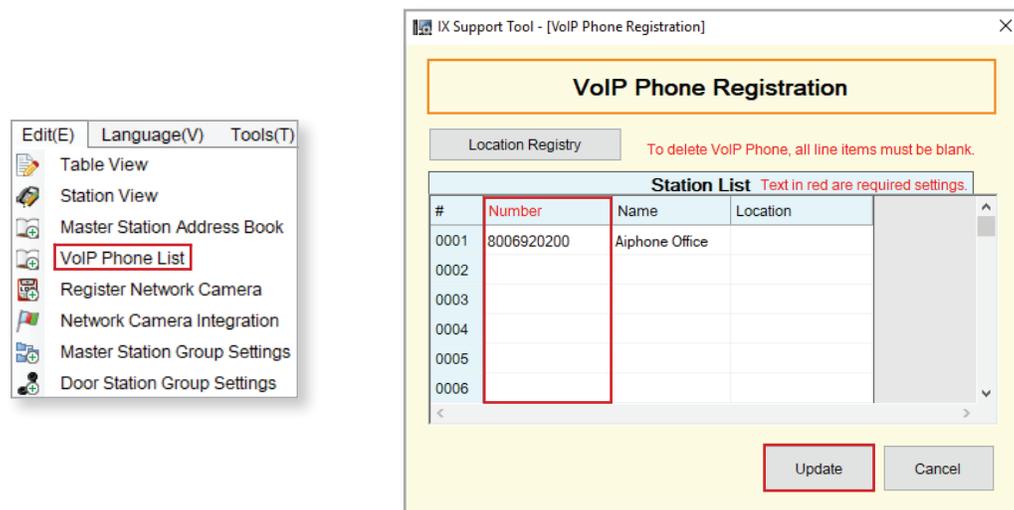
### Note:



The FXO Delay(ms) may need to be adjusted to match the quality of the analog line being used for dial-out.

## Registering a Phone Number

To call a phone number from an IX Series station using an analog trunk, the phone number will need to be registered as a VoIP Phone in the Support Tool. Open Support Tool and navigate to Edit > VoIP Phone List, and enter the phone number on the next available row.



## Registering a Phone Number (cont.)

Now assign the newly registered phone number to the door station that will be placing the call. From the menu on the left, expand Call Settings and click Called Stations (Door/Sub Stations). Scroll the window to the right and locate the registered "VoIP Phone", and use the drop down box to select **U** in the row of the designated door station.

The screenshot shows a configuration menu on the left with 'Called Stations (Door/Sub Stations)' highlighted. To the right, a table displays a row for '8006920200 / Aiphone Office / VoIP Phone' with a dropdown menu set to 'U'. Below the table is an orange 'Update' button with the text 'Click Update to save your settings.' and an arrow icon.

## Outbound Routes

For a station to call out to the registered phone number, it is required to create an outbound route rule for the analog trunk. Expand Extension / Trunk from the menu on the left and click on Outbound Routes. Once the Outbound Routes page opens click on the Add button.

The screenshot shows the 'Create New Outbound Rule' form. The 'Calling Rule Name' field is set to 'Analog\_Dial\_Out' and the 'Pattern' field contains 'xxxxxxxx'. The 'Main Trunk' dropdown is set to 'AnalogTrunks - Analog'. A blue 'Save' button is located at the bottom right of the form, with the text 'Click Save' next to it.

## Registering the IXW-PBXA

The IXW-PBXA must be registered to the IX Series stations for the stations to call out. From the menu on the left, expand Network Settings and click SIP. Enter the extension number in the ID column, the SIP password in the password column, and the IP address of the IXW-PBXA in the IPv4 Address column.

**Table View**

---

**Station View**

- Station Information
- Network Settings
  - IP Address
  - DNS
  - SIP**
  - Multicast Address
  - Video
  - Audio
  - Packet Priority
  - NTP

Station Information					Network Settings <span style="color: red; font-size: small;">Text in red are required settings.</span>							
#	Identification				SIP							
	Number	Name	Location	Station Type	SIP Connections		Primary Server					
					SIP Signaling Port	User Agent	ID	Password	IPv4 Address	IPv6 Address	Port	
0001	101	Front Desk		IX-MV7-*	5060		101	*****	192.168.1.140			5060
0002	102	Security Office		IX-MV7-*	5060							5060

Click **Update** to save your settings. Update

## Uploading the Settings

In this step, upload the newly configured settings to the IX Series stations. To test your system, press the call button on the door station. The phone extension that was programmed to ring should receive the call. Answer it and ensure that you have 2-way communication between the phone extension and the door station.

File(F) Edit(E) Language(V) Tools(T) Help(H)

- Create New System
- Select Existing System
- Delete Existing System
- Update Settings
- Download Settings From Station
- Upload Settings To Station**
- Upload SSL Certificate
- Import Setting File
- IX Support Tool Export System Configuration
- Export to Line Supervision Software
- Exit

**Setting File Upload**

Select the station(s) to upload the Setting File(s):

Station List <span style="color: red; font-size: small;">Text in red are required settings.</span>						
Select	Number	Name	Location	Station Type	Status	
<input checked="" type="checkbox"/>	101	Front Desk		IX-MV7-*	-	In Process
<input type="checkbox"/>	102	Security Office		IX-MV7-*	-	In Process
<input type="checkbox"/>	201	Front Door		IX-DV, IX-DV/F(-)	-	In Process
<input type="checkbox"/>	202	Employee Entrance		IX-DV, IX-DV/F(-)	-	In Process

Select Station by Type: All Select Unselect

Select file type to be uploaded

Settings
Sounds
Image
Schedule