

QUICK START GUIDE

IXW-PBXA

Programming Guide



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Overview

This guide covers how to configure the IXW-PBXA to work with IX|IXG Series stations programmed by IXG Support Tool. These instructions assume that the stations have already been programmed and are otherwise operational, and that IXG Support Tool is already installed on the programming PC. If this is not the case, use the links below to get started.

IXG Support Tool download: https://www.aiphone.com/IXG-SupportTool

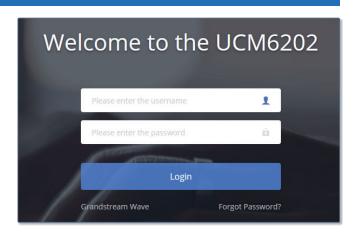
IX|IXG Series Quick Start Guide: https://www.aiphone.com/IXG-Series-QuickStartGuide

IXI IXG Series Network Security Summary: https://aiphone.com/ix-ixg-network-security-summary

Login Information

Access the IXW-PBXA by entering its IP address and port in a web browser on a PC set to the same IP scheme. The IP address of the IXW-PBXA will be shown on its LCD screen, and the port used is 8089. Use the password printed on the sticker at the base of the IXW-PBXA for the first login.

Example: https://192.168.1.120:8089



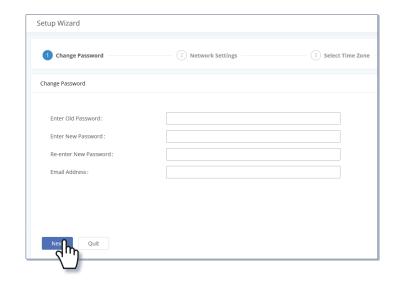
Setup Wizard

After logging in, the setup wizard will launch to assist with initial setup.

Change Password

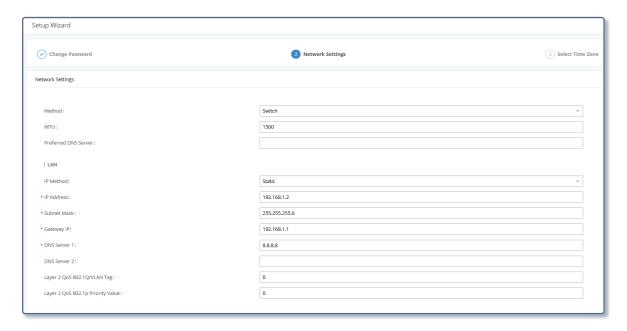
A prompt will appear to create a new password, as well as enter an email address. Fill these in and record them for future reference. Click **Next**.

An email address is required to recover the IXW-PBXA if the password is lost.



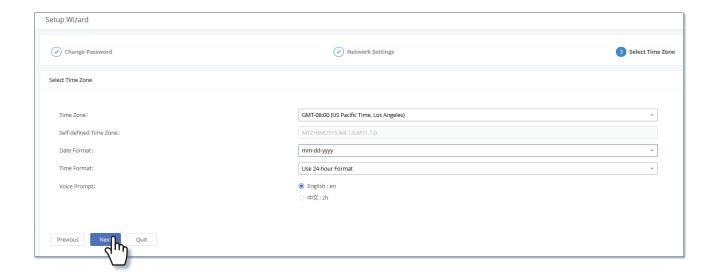
Network Settings

Change the network settings for the IXW-PBXA so that it can communicate with the site's IX|IXG Series stations. Change the **Method** to <u>Switch</u>. The LAN settings will need to match the local network and be in a range that the IX|IXG Series stations can reach. Consult the site's network administrator for more information. Click **Next** .



Time Zone

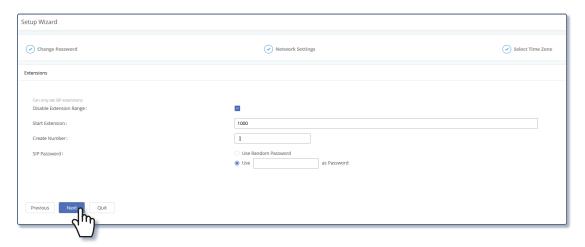
Change the **Time Zone** to match the location of the site's IX|IXG Series stations. The date and time formats can also be changed based on preference. Click **Next**.



Extensions

Each IX | IXG Series station will be assigned an extension in the IXW-PBXA. Leave **Disable Extension Range** checked and set the **Start Extension** to the first IX | IXG Series station's station number. This can be seen in IXG Support Tool under **Station Information**, <u>Identification</u> on the side menu. Record the station numbers and names for future steps.

Set **Create Number** to 1 and set a custom **SIP Password** that will be assigned to all extensions. Record the password for future steps. Click **Next** .



Trunks & Routes

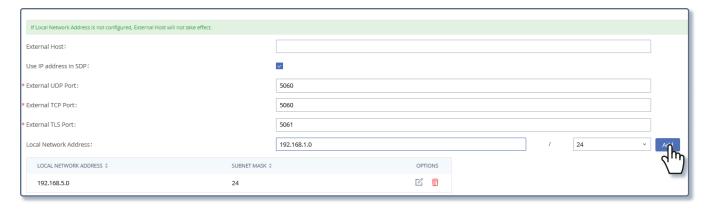
The **Trunks / Routes** setting will be configured in later steps of this guide with more in-depth information. Do not make any changes and click **Next** .

Summary

Review the information from each of the previous steps and click Save to exit the setup wizard.

SIP Settings

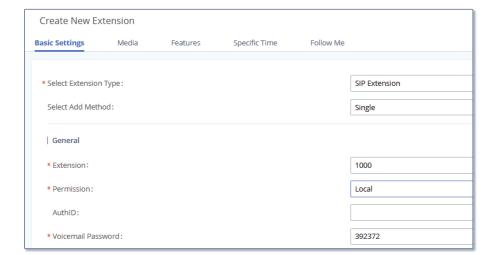
Expand **PBX Settings** in the left menu and select <u>SIP Settings</u>. Select the <u>NAT</u> tab and enter the IXW-PBXA's network address in the field labeled **Local Network Address**. Click **Add** to enter the address, then click **Save** in the top right corner of the page.



Setting & Adding Extensions

Each IX IXG Series station needs to be registered to the IXW-PBXA as a separate extension. The extension number will be assigned to the station in IXG Support Tool in a later step. Expand the **Extension / Trunk** menu and select <u>Extensions</u>. Click the pencil symbol to make changes to the extension.

Set the Extension to match the Station Name in IXG Support Tool for consistency. For the SIP / IAX Password, enter the SIP Password created on the wizard's Extensions screen. Set a first and last name under User Settings. Set the Permission level and make note of it for a future step. Fill in all settings marked with a red asterisk, and any required by the site's network administrator. Click Save to finish creating the extension.







Click + Add on the Extensions page to create more extensions, then repeat the above settings to configure them.



Phone Line Trunk Settings

The IXW-PBXA can connect to SIP or analog phone line trunks to place outbound calls.

SIP Trunk Settings

Navigate to Extension / Trunk, VolP Trunks on the side menu. Click + Add SIP Trunk.

Select the drop-down menu next to **Type** and select <u>Register SIP Trunk</u>.



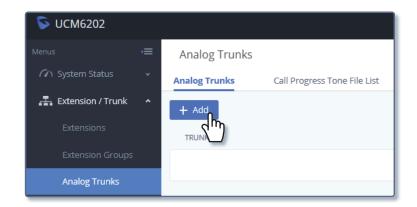
Enter the **Provider** and **Host Name** of the SIP trunk service provider. If issues arise, confirm this information with the provider of the SIP trunk. Fill in all settings marked with a red asterisk, as well as any required by the site's network administrator. Click **Save**.





Analog Trunk Settings

Plug the POTS line into one of the FXO ports on the back of the device. Navigate to Extension / Trunk, Analog Trunks on the side menu. Click + Add .



Select the drop-down menu next to Type and select Register SIP Trunk.

Use the checkbox to mark which **FXO Port** was connected. Add a **Trunk Name**. Fill in or verify all settings marked with a red asterisk, as well as any required by the site's network administrator. Click **Save**.



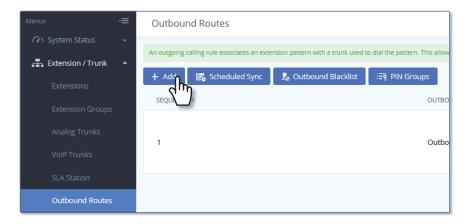


If issues arise after deployment, check that the information entered on this page is correct.

Outbound Routes

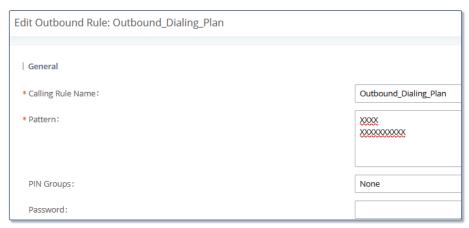
An outbound route rule is required for an IX|IXG Series station to call out to its registered phone number.

To configure a rule, select Extension / Trunk, Outbound Routes on the side menu. Click Add.



Set an **Outbound Rule Name**. This is required, but it can be any alphanumeric name that seems descriptive.

The **Pattern** can usually be set to _X!. This variable will allow any number of digits to be entered as a call destination from the VoIP or analog trunk.



If both a VoIP and an analog trunk are used, more specific rules may be needed. Multiple rules can be active simultaneously. VoIP extensions would fit the pattern XXX, with the number of characters depending on the length of the extensions. Full ten digit numbers would be rendered as XXXXXXXXXX for the analog trunk. If using multiple rules, set each on a separate line.

Example: The VoIP line will call extension 345, and the analog line will call 1-555-123-4567. So, it would be entered in the **Pattern** field as:

XXX XXXXXXXXXXXX

Use the drop-down menu next to **Permission Level** to match the settings created for the extensions on page X. If these do not match, the call will not go through.

Once everything is configured, click Save.

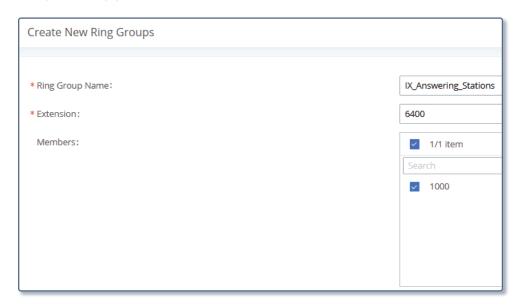


Calling Multiple Extensions At Once

Normally, IX IXG Series stations are not able to call more than one extension at a time. Ring groups can be set on the IXW-PBXA, allowing a single call destination that the IXW-PBXA routes to multiple destinations.

Navigate to Call Features, Ring Groups on the left side menu. Click + Create New Ring Group.

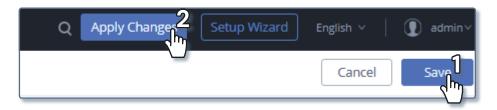
Assign the ring group a name and a unique extension. Find the Members section.



Use the checkboxes under **Available** to select the desired extensions. Click > to add them to **Selected**. To remove an extension from the group, check its box under **Selected** and click < .



Click Save , then click Apply Changes .



This will complete the steps needed to register the stations in the IXW-PBXA's interface. The stations' settings in IXG Support Tool will need to be configured next.

IXG Support Tool Settings

Open IXG Support Tool, log in, and select the appropriate site. On the top menu, select View(V), Advanced.



Registering the IXW-PBXA

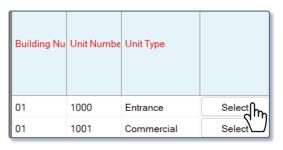
To register the IXW-PBXA with the system, navigate to **Network Settings**, <u>SIP</u> on the side menu. For each station to be registered, enter its extension under the <u>ID</u> column, the SIP password under <u>Password</u>, and the IXW-PBXA's IP address under <u>IPv4 Address</u>. Click **Save** in the top left corner of IXG Support Tool.



Adding VolP Phones to Units

The VoIP phones in an IX|IXG Series system are added to units as a type of answering station. To assign the extension to a unit, navigate to **Site Settings**, <u>Units / Stations</u> on the side menu. Select a commercial or guard unit to contain the VoIP phone. If a unit does not exist, create one by filling in the building number, assigning a unit number, and clicking **Select** to choose a unit type.

If there is not a free slot under one of the Master / Tenant Station columns, use the Display Settings menu at the top of the page to increase the number of master stations and click Apply.

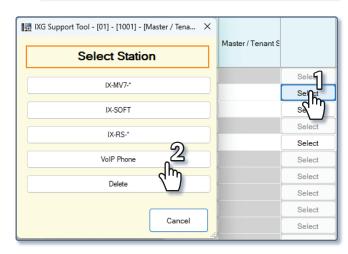




Once a spot has been chosen, click **Select** under one of the <u>Master / Tenant Station</u> columns and select **VoIP Phone** as the station type.

Repeat these steps for each extension. Once all VoIP phones have been added, click $\bf Save$.

Each unit can only contain one VoIP phone. If multiple phones need to be called at once, create a separate unit for each phone and use the steps on page 8 to create a Ring Group.



Assigning Extensions to VolP Phones

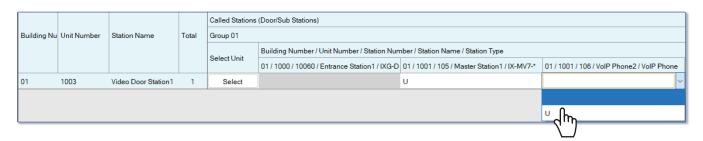
To assign an extension to the VoIP phones, navigate to Station Information, Identification on the side menu. Change the Station Number of each VoIP phone to match the desired extension.

If any IX IXG Series stations have a different station number than their assigned extension in the IXW-PBXA, adjust those as well. Click Save .

| Building Nu | Unit Number | Station Type | Identification | |
|-------------|-------------|--------------|----------------|---------------------|
| | | | Station Nu | Station Name |
| 01 | 1000 | IXG-DM7(-*) | 10060 | Entrance Station1 |
| 01 | 1001 | IX-MV7-* | 105 | Master Station1 |
| 01 | 1001 | VoIP Phone | 1000 | VoIP Phone2 |
| 01 | 1002 | IXG-MK | 10020 | Guard Station1 |
| 01 | 1002 | VoIP Phone | 1001 | VoIP Phone2 |
| 01 | 1003 | IX-DVM | 107 | Video Door Station1 |
| 01 | 1004 | IXG-2C7(-*) | 10040 | Tenant Station1 |
| | | IXGW-(T)GW | 00012999 | Gateway Adaptor1 |

Adding VoIP Phones to Door Station Call Settings

Navigate to Call Settings, Called Stations (Door/Sub Stations) on the side menu. To assign a door station to call a VoIP phone, find the cell where the door station row and VoIP phone column intersect in the table. Use the drop-down menu in the cell and select U. Do this for all desired door stations and click Save .



Assigning Door Release Codes (optional)

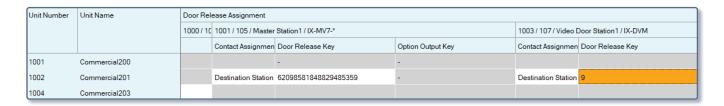
Door and entrance stations are automatically assigned a twenty digit Door Release Key when they are created. The key can be entered manually into the keypad on a telephone to unlock the door. To shorten the key, navigate to Option Input / Relay Output, Relay Output on the side menu. Scroll right and find the <u>Door Release Key</u> column. Replace the key for the desired door stations and click Save .

Next, the answering stations that release the door will need to have their settings adjusted. Navigate to Function Settings, Door Release. Use the Display menu to select the building and group of stations that includes the door stations. Click Apply.





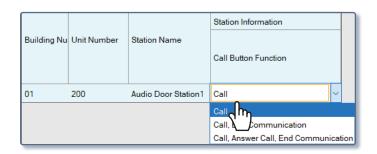
Find the column for the door or entrance station. Replace the key wherever it intersects with an answering station that needs to unlock it. Repeat these steps for all door and entrance stations that were adjusted. Click **Save** .



Configuring a Door Station to Answer Calls (Optional)

Door stations registered to the IXW-PBXA can receive calls from VoIP phones, but they are not able to auto-answer. The station's call button will need to be configured to answer calls.

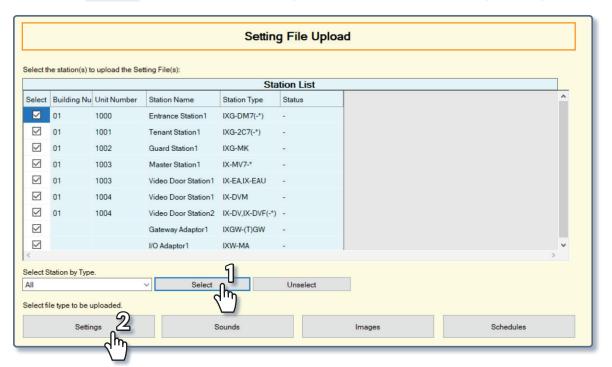
Navigate to **Call Settings**, <u>Station Information</u> on the side menu. Adjust the <u>Call Button Function</u> to **Call, Answer Call, End Communication**. Click **Save**.



Uploading Settings to Stations

To upload settings to the stations, navigate to Connection(S), <u>Upload Settings</u> on the top menu.

Select each station by placing a check mark next to it, or click **Select** to select all stations at once. Click **Settings** to upload station settings, which will complete the programming steps.



Exporting System Configuration

Once the upload is complete, it is best practice to create a copy of the system configuration. This allows the settings to be restored, or moved to a new programming PC as needed.

Select **File(F)** from the top menu and click <u>Export System Configuration</u>. Click <u>Export</u> on the new window that appears. If the configuration file needs to be emailed, compress the folder first.

Troubleshooting Tips

Once the settings have been uploaded to the stations, place a test call from the door station. The door should be able to reach the programmed extension. Answer the call and verify there is two-way communication between the phone extension and door station. If there is not, verify the settings on the IXW-PBXA and in IXG Support Tool.

Enabling Video (Optional)

Door and entrance stations will send video to compatible SIP phones. If the video shows up on answering stations, but not on the site's SIP phones, changing the video profile can resolve this issue.

Navigate to **Network Settings**, <u>Video</u> on the side menu. Scroll right to **Select Profile**. Use the drop-down menu to change the door and entrance stations' profile to **Baseline**. Click **Save**, then upload settings to all stations again.

