

# **IXW-PBXA** Programming Guide



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## 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:		
← → C û Q https://1	92.168.1.120:8089	
Welcome to the UC	M6302A	Login
		<b>ID</b> : admin (default)
Please enter the username	1	<b>Password</b> : Found on a sticker on the back of the IXW-PBXA, below the MAC address.
Please enter the password	8	
and and a second		GRANDSTREAM Model: UCM6204
Login		This device compliane with part 15 of the FCC hules. Operation is subject to the following two conditions: (1) this device may not clause harmful interferences (2) this device must accept any interference included including interference that may cause uncereatived including interference that may cause uncereatived
Wave Forgo	ot Password?	

## Setup Wizard - Change Password

When first logging into the IXW-PBXA, there will be a prompt to create a new password and enter a valid email address for password recovery. Be sure to record these for future reference.

Enter Old Password :		
Enter New Password :		
Re-enter New Password :		
Email Address :		

## 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 the local network and be in a range that the IX stations can reach.

vork Settings				
Method :	Switch ~	]		
NTU:	1500			
Preferred DNS Server:				
LAN				
P Method :	Static ~			
P Address:	192.168.1.140			
Subnet Mask :	255.255.0.0			
Sateway IP :	192.168.1.1			
DNS Server 1:	75.75.75.75			
DNS Server 2:	75.75.76.76			
ayer 2 QoS 802.1Q/VLAN Tag :	0			
ayer 2 QoS 802.1p Priority Value :	0			
Provious	Ouit		Click Next	N

#### Setup Wizard - Time Zone

Change the Time Zone to match the location of the IX Series stations. The date and time format can be changed based on preference.

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		

#### **Setup Wizard - Extensions**

IX Series stations are assigned in the IXW-PBXA as extensions. Leave **Disable Extension Range** checked and set the **Start Extension** to the first IX station's Identification Number from IX Support Tool. Set **Create Number** to **1** and create a custom **SIP Password** that will be assigned to all extensions.

Extensions			1
Can only set SIP extensions. Disable Extension Range			The <b>Create Number</b> will cause the Setup Wizard to automatically create that many sequential extensions, beginning at the <b>Start Extension</b> .
Start Extension Create Number SIP Password	0001 1 Use Random Password		able to be edited later, only deleted. For this reason, it is recommended to set <b>Create Number</b> to 1 and add others as needed later.
Previous Next	Use	as Password	Click Next Next

#### Setup Wizard - Trunk / Routes

The Trunks / Routes will be assigned in later steps in this guide with more in-depth information. Click Next.

Trunks / Routes				
+ Add Existing Outbound Rules				
Trunk Type	Trunks	Outbound Rule	Inbound Rule	
		No Data		Click Next Next

## Setup Wizard - Summary

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



## SIP Settings

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

SIP Settings				
General Session Timer	TCP/TLS NAT	ToS STIR/SHAKEN I	Misc	Cancel Save
If Local Network Address is not co	nfigured, External Host will not take effe	ect.		
External Host:				
Use IP address in SDP :	<b>v</b>			
Get External IP via STUN :				
* External UDP Port:	5060			
* External TCP Port:	5060			
* External TLS Port :	5061			
Local Network Address :	192.168.1.0	/ 24 ~ /	Add	
LOCAL NETWORK ADDRESS \$		SUBNET MASK \$	OPTIONS	
	LOCAL NETW	ORK ADDRESS 🗘	SUBNET MASK \$	OPTIONS
	192.168.1.0	)	24	r 🖬
			< <u>1</u> >	Total: 1 10 / page Y Goto 1

#### Editing Extensions

Click

Each IX Series station needs an extension to be registered to the IXW-PBXA. The extension number will be assigned to the station in the IX Support Tool in a later step. To configure this, expand **Extension/Trunk** and select <u>Extensions</u>. Click  $\square$  to make changes to the existing configured in the Setup Wizard.

Menus	·=	Exten	sions									
(1) System Status	~	_			_							
井 Extension / Trunk	^	+ Add	🖸 Edit	<u> D</u> elete	Reset	G Edit All Sip Extensions	🗐 Import	🕞 Export 🗸	Enter	Extension Number or	CallerID Name	Search
Extensions		🔀 E-ma	il Notification	Follow Me Option	s							
Extension Groups			Status ‡	Presence Status 🗘	Extension \$	CallerID Name 🗘	Message	Terminal Type 🗘	IP and Port \$	Email Status 🗘		Options
Analog Trunks			<ul> <li>Unavailable</li> </ul>	Available	101		Messages: 0/0/0	SIP(WebRTC)	-	⊵©	C D	Ů
VoIP Trunks						Total: 1	< 1 >				30 / page 🗸 G	oto 1
SLA Station												
Outbound Routes												
Inbound Routes												

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 **Extensions** step. Make note that this password will be needed when registering the IXW-PBXA.

Asaic Settings Media Features Specific Time Follow Me     General             • Extension:             • Extension:             • Deale            • Permission:             Local             • CalleriD Number:             Permission:             Local             • SIP/IAX Password:             AuthID:             AuthID:             Voicemail:             Enable Local Voicemail             Send Voicemail to Email:             Default             Default             Default             Default             Diable This Extension:             Image Local COD:             User Settings             Frort             Last Name:             Desk             Email Address:	ave Cancel
General         • Extension:       1000       CallerID Number:       FrontDesk         • Permission:       Local       • SIP/IAX Password:       Alphone         • Voicemail:       Local Voicemail       • Voicemail Password:       Immediate         Voicemail:       Enable Local Voicemail       • Voicemail Password:       Immediate         Skip Voicemail to Email:       Default       • Keep Voicemail after Emailing:       Default         Enable Keep-alive:       • Keep-alive Frequency:       60       60         Disable This Extension:       Enable SCA:       •       Immediate         User Settings       Front       Last Name:       Desk         Email Address:       • User Password:       ******	
General         • Extension:       1000       CalleriD Number:       FrontDesk         • Permission:       Local       • SIP/IAX Password:       Alphone         Voicemail:       Enable Local Voicemail       • Voicemail Password:       Image: Constraint of the second of the	
* Extension:       1000       CallerID Number:       FrontDesk         * Permission:       Local       * SIP/IAX Password:       Alphone         AuthID:       AuthID:          Voicemail:       Enable Local Voicemail       * Voicemail Password:          Voicemail:       Enable Local Voicemail       * Voicemail Password:          Send Voicemail to Email:       Default       Verification:          Send Voicemail to Email:       Default       * Keep Voicemail after Emailing:       Default         Enable Keep-alive:	
* Permission:       Local       * SIP/IAX Password:       Alphone         AuthID:          Voicemail       * Voicemail Password:          Skip Voicemail Password:	
Voicemail:       Enable Local Voicemail       AuthID:	Q
Voicemail:       Enable Local Voicemail <ul> <li>Voicemail Password:</li> <li>Skip Voicemail Password</li> <li>Skip Voicemail Password</li> <li>Verification:</li> <li>Verification:</li> <li>Send Voicemail to Email:</li> <li>Default</li> <li>Keep Voicemail after Emailing:</li> <li>Default</li> <li>Keep-alive Frequency:</li> <li>0</li> <li>Disable This Extension:</li> <li>Emapher Sch</li> <li>Emapher Sch</li> <li>User Settings</li> <li>First Name:</li> <li>Front</li> <li>Last Name:</li> <li>Desk</li> <li>#User Password:</li> <li>#user Password:</li></ul>	
Skip Voicemail Password	Q
Verification:         Send Voicemail to Email:       Default         Enable Keep-alive:       .         Enable Keep-alive:       .         Disable This Extension:       .         Emergency Calls CID:       .         User Settings       .         First Name:       Front         Last Name:       Desk         Email Address:       * User Password:	
Send Voicemail to Email:       Default       Keep Voicemail after Emailing:       Default         Enable Keep-alive :       •       *       60         Disable This Extension:       •       Enable SCA:       •         Emergency Calls CID:       •       •       •         User Settings       •       •       •         First Name:       Front       Last Name:       Desk         Email Address:       •       •       •	
Enable Keep-alive:       60         Disable This Extension:       Enable SCA:         Emergency Calls CID:	~
Disable This Extension:     Enable SCA:       Emergency Calls CID:	
Emergency Calls CID : User Settings       First Name :     Front     Last Name :     Desk       Email Address :     * User Password :     ******	
User Settings         First Name:         Front         Last Name:         Desk           Email Address:         * User Password:         ******	
First Name:         Front         Last Name:         Desk           Email Address:         * User Password:         ******	
Email Address : * User Password : ******	
* Language: Default v * Concurrent Registrations: 1	
Mobile Phone Number:	

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

## **VoIP Trunk Settings**

The IXW-PBXA can connect to SIP Trunks to place outbound calls. If using an analog phone line instead, skip to the next step. To configure SIP Trunks, expand **Extension/Trunk** and select <u>VoIP Trunks</u>. Click Add Sip Trunk.

S UCM6202					Apply Changes	Setup Wizard English	n v 🕴 💽 admin v
Menus	Ē	VoIP Trunks					
🗥 System Status	~	+ Add SIP Trunk + Add IAX Tr	unk				
🕂 Extension / Trunk	^	Provider Name 🗘	Terminal Type 🗘	Type 🗘	Hostname/IP 🛊	Username 🗘	Options
Extensions			i sininiai rype i	1)00	noomane, n	o o marine .	options
Extension Groups				No Data			
Analog Trunks		Trunk Group					
VoIP Trunks		+ Add Trunk Group					
SLA Station		Name \$	Terminal Type 🗘	Hostna	ame/IP 🗘	Username	Options
Outbound Routes				No Data			
Inbound Routes							

Select the Type drop-down and select **Register SIP Trunk** and enter the **Provider** and **Host Name** of the SIP Trunk service provider. Also enter the **Username** and **Password** of the SIP Trunk. If issues arise, confirm this information with the provider of the SIP Trunk.

Create New SIP Trunk		Save	Cancel
Type:	Register SIP Trunk	~	
* Provider Name :	Please select a provider		
* Host Name :			
Keep Original CID :			
Keep Trunk CID :	<b>~</b>		
NAT :			
Disable This Trunk :			
TEL URI:	Disabled	~	
Need Registration :			
Allow outgoing calls if registration			
fails:			
CallerID Name :			
* Username :			
* Password :			

#### Analog Trunk Settings

The IXW-PBXA can also utilize Analog Trunks for outbound calls. The POTS line will plug into one of the FXO Ports on the back of the device. To configure this, expand **Extension/Trunk** and select <u>Analog Trunks</u>. At the top of the page, click [Add Analog Trunks]. Once the <u>Create New Analog Trunks</u> page is open, select an FXO Port and create a trunk name.

S UCM6202					Apply Changes Setup Wizard	English ~   ① admin~
Menus	A	nalog Trunks				
🗥 System Status	Ana	log Trunks	Call Progress Tone File List			
Extension / Trunk	^ +	Add Analog Trunks				
Extensions		Trunks 🗘	Disable 🗘	Trunk Mode ≑	Analog Ports ≑	Options
Extension Groups				No Data		
Analog Trunks						
VoIP Trunks						
SLA Station						
Outbound Routes						
Inbound Routes						
Create New Analo	og Trunk	S				Save Cancel
					Carron recommenda	
* FXO Port:	1	✓ 1 2		* Trunk Name :	AnalogTrunk	
Note						
Note:						
The FXC	) Delay(	ms) may ne	ed to be adjusted to m	atch the quality of the analog line	e being used for dial-out.	

#### **Outbound Routes**

An outbound route rule is required for the the configured IX station to call out to the registered phone number. Select either the VOIP or analog trunk that was configured previously.

Expand **Extension / Trunk** from the menu on the left and select <u>Outbound Routes</u>. Once the Outbound Routes page opens, click Add.

The Outbound Rule Name needs to be set, but can be anything that seems appropriate. In most situations, the Pattern can be set to **\_X**!, since that will allow any number of digits to be entered as a call destination when using a VOIP or analog trunk.

More specific rules may be needed if both a VOIP and analog trunk are being used, and multiple rules can be in place simultaneously. VOIP Extensions would fit the pattern **XXX**, with any number of X's depending on the length of the extensions. Full ten digit phone numbers would be rendered as **XXXXXXXXXX** on the analog trunk.

Create New Outbound Rule		
General		
* Outbound Rule Name :	Test	
* Pattern:	_XI	
		G

Make sure that the Privilege Level matches the Privilege set during the Create New Extension step on Page 6.

Be sure that the Privilege Level of the Outbound Rule is set properly. It will be set to Disabled by default. If the Privilege Level of the outbound rule does not match the Privilege Level of the SIP extension, the call will not go through. Click <u>Save</u>.

(continued on next page)

#### Outbound Routes (continued)

Disable This Route:						
Privilege Level:	Disable	~				
	Warning: Setting privilege level at "Disabled" will lead to this rule being usable only by a matched Source Caller ID.					

Click Save	Save

#### Calling Multiple Extensions At Once

Normally, IX Stations are not able to call multiple extensions at the same time. Ring groups allow them to call a single extension that represents a larger group. To configure a ring group, select <u>Ring Groups</u> under **Call Features**.



Assign a name and a unique extension to the ring group. The extensions that have already been programmed into the IXW-PBXA will be listed in the left <u>Members</u> menu. Select the desired Members from the list and click > to move them to the right menu.

Create New Ring Groups						
* Ring Group Name :	Test					
* Extension :	2100					
Members:	✓ 1/1 item	Available		0 item		Selected
	Search	Q	<	Search		Q
	<b>1</b> 000		Ŷ			
					None	
			4			
LDAP Phonebook:	0 item	Available		0 item		Selected
	Search	Q		Search		Q
			Ŷ			
	None				None	
			4			
Ring Group Options						
Ring Strategy:	Ring in Order			~		
Music On Hold :	None			v		

## Click Save, and then Apply Changes.



### 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 select <u>SIP</u>. 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.



### **Registering a Phone Number**

Once the IXW-PBXA has been configured, the IX Series stations will need to be programmed. 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 IX Support Tool and navigate to **Edit** and select <u>VoIP Phone List</u>. If using a SIP Trunk, enter the configured extension(s) under Number. If using an Analog Trunk, enter the desired phone number(s). Click **Update**.

Edi	t(E) Language(V) Tools(T)	IX Sup	port Tool - [VoIP Ph	one Registration]			×
	Table View Station View Master Station Address Book VolP Phone List				While multiple numbers can be entered, a door station can only call a		
	Register Network Camera			Station I	extension at the same		
P	Network Camera Integration	#	Number	Name	Location	^	time. Use Ring Groups if
æ	Master Station Group Settings	0001	8006920200	Aiphone Office			multiple numbers need
	Door Station Group Settings	0002					to be called at once.
		0003					
		0004					
		0005					
		0006				~	
		<				>	
					Update	Cancel	

## Registering a Phone Number (continued)

Once the number has been entered, the door will need to be configured to call it. From the menu on the left, expand **Call Settings** and select <u>Called Stations (Door/Sub Stations)</u>. The registered numbers will be labeled as "VoIP Phones." Scroll the window to the right and locate the desired extension, and use the drop down box to select **U** in the row of the designated door station.

Table View	8006920200 / Aiphone Office / VoIP Phone
	U
Station View	
• System Information	
- Call Settings	
Station Information	
···· Called Stations (Master Stati	
···· Called Stations (Door/Sub S	
···· Call Origination	
Incoming Call	
🖳 Option Input / Relay Output Setti	
Paging Settings	
Function Settings	
Transfer Settings	
Station Settings	Click Update to
. Maintenance	save your settings.

### Uploading the Settings

Once these settings are complete, upload them to the IX stations to finish programming the system. Navigate to **File** and select <u>Upload Settings to Station</u>. Select all stations and click **Settings** to upload the configuration.

File	(F) Edit(	) Language(V	/) Tools(T)	Help(H)						Setting File	e Upload				
Create New System											· ·				
Select Existing System						ect the	station(s) t	o upload the Setting File(s):		Station	let		То	at in rod are required softings	_
<b>T</b>	Delete Ex	sting System			Se	lect	Number	Name	Location	Station Type	Status		10	ski in reu are required settings.	^
	Update S	ttings					101	Front Desk		IX-MV7-*	-		In Process	Success	
	Downloar	Settings From St	ation			_	102	Security Office		IX-MV7-*	-	-	In Process	Success	
	Linload S	ttings To Station					202	Employee Entrance		IX-DV, IX-DVF(-*)					
	Opidad S	ungs to Station													
	Upload S	L Certificate													
÷	Import Se	ting File													
<b>-</b>	IX Suppor	Tool Export Syste	em Configura	tion											
	Export to Line Supervision Software														>
	Exit					ect Sta	tion by Typ	e:							
	All Select Unselect														
					Sel	ect file	type to be	uploaded							_
							Settir	ngs	Sound	ts	li	mage		Schedule	

To test the 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 there is two-way communication between the phone extension and the door station. If there is not, verify the settings on the IXW-PBXA and in IX Support Tool.