

Grandstream GXW 410X Configuration Procedure

Description

When application of the Grandstream GXW 410X is desired for connection of FXO circuits onto the IPitomy IPBX the following configuration information can be used as a guide to install the adjunct properly.



- 2. Make wiring connections to the LAN per the photo above Connect the Grandstream WAN port to an available LAN port of the network switch/router being used on site.
- 3. Power up the unit and identify its assigned IP address. (Typically assigned from the DCHP server of the host router.)
- 4. Use your browser to access the Grandstream by inputting the IP Address assigned to it. The IP Address assigned by your router via DHCP can be discovered several ways the easiest of which is likely by accessing the router's connected devices page and finding it listed there.
 Grandstream Device Configuration
- 5. When the Grandstream page is accessed, input the password ("admin" at default) and navigate to the pages below making the changes as defined.

Grandstream Device Configuration				
Password				
Login				
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- 6. Navigate to the "Basic Settings" page and input the data as in the example shown in the photo.
- 7. As mentioned, the IP Address assigned is likely DCHP (automatically assigned by the router).

This is not desirable since the device must be "found" by the IPBX regardless of incidental changes and network adjustments. For this reason its best to change the IP Address to Static and assign an address that is out of range of those that the host router assigns for DCHP registered devices. (E.g. if the router will assign DCHP Addresses from 192.168.1.1 ~ 192.168.1.50 you should select an IP Address out of this range ...192.168.1.200 would work unless it is being used elsewhere.)

- 8. Use the other information provided by the DCHP assignment to fill in the remaining data; Subnet is usually 255.255.255.0. The Default Router Address must be that of the router—the same one that assigns DCHP IP Addresses. DNS should also be the router since it will direct traffic.
- 9. Click the Update button. This saves information on this page before moving on.

	Grandstream Device Configuration													
Status Basic Set	tings <u>/</u>	Advanced Se	ettings FXO L	ines	FXO Lin	e Test	Channe	<u>els C</u>	Dial-pla	<u>n Profik</u>	<u>e 1</u> Profi	<u>le 2</u> P	rofile <u>3</u>	
Web A	ccess:	ITTP	© HTTPS											
We	b Port:	80 (default for HTTP is 80 and HTTPS is 443)												
End User Pas	sword:	(purposely not displayed for security protection)												
IP Ad	ldress:	Ø dynamically assigned via DHCP (non-default) or PPPoE:												
(will attempt PPPoE first if PPPoE setting is non-blank)														
DHCP hostname (Option 12):														
DHCP domain (Option 15):														
	DHCP vendor class ID (Option 60): Grandstream GXW4104													
	PPPoE account ID:													
		PPP	oE account pas	sswor	d:									
		PPP	oE service nam	ie (op	tion):									
		Preferred D	NS server: 0		. 0	.0	.0							
		statically	configured (de	efault)	as:									
		IP Ac	ldress:		192	. 168	.2		9					
		Subn	et Mask:		255	. 255	. 255		0					
			ult Router:		192	. 168	.2		1					
			Server 1:		192	. 168	.2							
		DNS	Server 2:		0	.0	.0	•	0					
Time	Zone:		US Eastern Tin								•			
	Allow DHCP Option 2 to override Time Zone setting:													
		No No	Yes											
Daylight Savings	Daylight Savings Time: Optional Rule: 3,2,7,2,0;11,1,7,2,0;60													
	Update Cancel Reboot													



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- 13. Navigate to the Profile 1 page.
- 14. Here the SIP Server must be programmed. Set this to be the IP Address of the IPBX. In our example, the address is 192.168.2.18.
- 15. Also be sure that the SIP Registration field is set to "No".
- 16. Click Update the button. This saves information on this page before moving on.
- 17. Since programming is now complete in the Grandstream, click Reboot this will commit the changes saved thus far to memory and make them operational.

Grandstream Device Configuration				
Status Basic Settings Advanced Setting	FXO Lines FXO Line Test Channels Dial-pl	an Profile 1 Profile 2 Profile 3		
Activate Profile:	😻 Yes 🙁 No			
Profile Name:	(option	al, name of your profile)		
SIP Server:	192.168.2.18 (Server d	lomain name or IP address)		
Outbound Proxy:	(Domain	name or IP address if in use)		
Use DNS SRV:	🖲 No 🙁 Yes			
User ID is phone number:	🖲 No 💿 Yes			
SIP Registration:	OYS NO			
Unregister On Reboot:	🖱 Yes 💿 No			
Register Expiration:	60 (in minutes. default 1 hour, max	45 days)		
SIP Registration Failure Retry Wait Time:	20 (in seconds. Between 1-3600, de	fault is 20)		
SIP Transport:	UDP © TCP			
NAT Traversal (STUN):	🖲 No 💿 No, but send keep-alive 💿	Yes		
Proxy-Require:	(content	for SIP Proxy-Require header)		
Early Dial:	No O Yes (use "Yes" only if proxy and the second	supports 484 response)		
Session Expiration:	180 (in seconds. default 180 seconds))		
Min-SE:	90 (in seconds. default and minimur	n 90 seconds)		
Caller Request Timer:	🕲 Yes 🛛 😻 No (Request for timer when m	aking outbound calls)		
Callee Request Timer:	Yes No (When caller supports time	er but did not request one)		
Force Timer:	Yes No (Use timer even when reme	ote party does not support)		
UAC Specify Refresher:	UAC UAS Omit (Recommended)	ded)		
UAS Specify Refresher:	UAC UAS (When UAC did not spe			
Force INVITE:	Yes No (Always refresh with INV)	ITE instead of UPDATE)		
Enable 100rel:	🖱 Yes 💿 No			
Refer-To Uses Target Contact	No O Yes			
INVITE Ring-no-answer Timeout:	40 (in seconds. default 40 seconds)			
Preferred Vocoder: (in listed order)	choice 2: PCMA - cho choice 3: G.723.1 - cho	vice 5: GSM ← vice 6: GSM ← vice 7: PCMU ← vice 8: PCMU ←		
Special Feature:	Standard 🗸			
	Update Cancel Reboot			
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- 18. In the IPitomy IPBX set the fields as you see them below... using the IP Address assigned to the Grandstream in step 7 above. (In our example we assigned the Grandstream an IP Address of 192.168.2.9. This becomes the "Host".)
- 19. Click Save Changes
- 20. Then click on the **Apply Changes** link in the upper right corner to make these settings operational in the Ipitomy IPBX.

SIP Provider	
Name:	grandstream
User Type:	peer 💌
DTMF Mode:	auto 💌
Host:	192.168.2.9
Port:	● Default ◎ Custom
Register:	◎ Yes ◉ No ◎ Custom
Authentication:	🔍 Yes 🔍 No 🔍 Custom
Auth User:	● Default ○ Custom
From User:	Default Custom C
From Domain:	● Default ○ Custom
Realm:	Default Custom C
Outbound Proxy:	Oisabled Enabled
Username:	
Secret:	
Inbound Caller ID:	
Outbound Caller ID Name:	
Outbound Caller ID Number:	
Call Limit:	2 This should be number of circuits that are actually connected to the Grandstream.
Qualify:	30000

- 21. Test the operation. Make a call into each of the Grandstream ports that have circuits and assure that they are being routed as defined in Call Routing—Incoming.
- 22. Test the operation. Make a call at an Ipitomy extension using a calling pattern as defined in Call Routing—Outgoing to assure that the call that should be placed over the Grandstream ports are placed.