

# **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
- 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				
Al Righta Reserved Grandstream Networks, Inc. 2004-2008				



## **Grandstream GXW 410X Configuration Procedure**

- 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 S	ettings FXC	Lines	FXO Lin	e Test	Channel	<u>s Dial-pla</u>	<u>n Profile</u> :	1 Profile 2	Profile 3	
Web A	ccess:	ITTP	© HTTPS									
We	b Port:	80	(default for	HTTP i	is 80 and	HTTPS	is 443)					
End User Pas	sword:	(purposely not displayed for security protection)										
IP Ad	ldress:	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:												
PPPoE account password:												
		PPI	oE service n	ame (oj	ption):							
		Preferred I	ONS server:	0	. 0	.0	. 0					
		staticall	y configured (	default	) as:							
		IP A	ddress:		192	. 168	. 2	. 9				
		Subn	et Mask:		255	. 255	. 255	. 0				
		Defa	ult Router:		192	. 168	.2	.1				
		DNS	Server 1:		192	. 168	.2	.1				
		DNS	Server 2:		0	.0	.0	.0				
Time	e Zone:	GMT-5:00	(US Eastern T	ime, N	ew York)	_				•		
Atlow DHCP Option 2 to override Time Zone setting:												
		No	Vec									
Daylight Savings	Time:	Optional Ru	le: 3,2,7,2,0;1	1,1,7,2,(	D;60							
	Update Cancel Reboot											



## **Grandstream GXW 410X Configuration Procedure**





## **Grandstream GXW 410X Configuration Procedure**

- 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.

Status Basic Settings Advanced Setting	gs FXO Lines FXO Line Test Channels Dial-plan Profile 1 Profile 2 Profile 3
Activate Profile:	📽 Yes 🌀 No
Profile Name:	(Optional, name of your profile)
SIP Server:	192.168.2.18 (Server domain 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:	OY S 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, default is 20)
SIP Transport:	ODP O TCP
NAT Traversal (STUN):	💿 No 💿 No, but send keep-alive 💿 Yes
Proxy-Require:	(content for SIP Proxy-Require header)
Early Dial:	No      Yes (use "Yes" only if proxy supports 484 response)
Session Expiration:	180 (in seconds. default 180 seconds)
Min-SE:	90 (in seconds. default and minimum 90 seconds)
Caller Request Timer:	@ Yes @ No (Request for timer when making outbound calls)
Callee Request Timer:	Yes     No (When caller supports timer but did not request one)
Force Timer:	Yes No (Use timer even when remote party does not support)
UAC Specify Refresher:	O UAC O UAS O Omit (Recommended)
UAS Specify Refresher:	UAC UAS (When UAC did not specify refresher tag)
Force INVITE:	Yes No (Always refresh with INVITE instead of UPDATE)
Enable 100rel:	💿 Yes 💿 No
Refer-To Uses Target Contact	No      Yes
INVITE Ring-no-answer Timeout:	40 (in seconds. default 40 seconds)
Preferred Vocoder: (in listed order)	choice 1:       PCMU ▼       choice 5:       GSM ▼         choice 2:       PCMA ▼       choice 6:       GSM ▼         choice 3:       G.723.1 ▼       choice 7:       PCMU ▼         choice 4:       G.729A/B ▼       choice 8:       PCMU ▼
Special Feature:	Standard -
	Update Cancel Reboot



## Grandstream GXW 410X Configuration Procedure

- 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
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.