

# IP400 Quick Guide

The IP400 is a four port FXO gateway designed to integrate traditional telephone lines with your IP PBX. The following guide is intended to help you configure the IP400 and the PBX together in as few steps as possible.

#### Accessing the IP400

- 1. Connect the IP400 to your network via the LAN port
- 2. Log into the PBX
- 3. Navigate to Destinations=>Extensions
- 4. Click Auto Discovery
- 5. Search the page for the IP400 MAC and note the IP address of the IP400

#### **Configuring the IP400**

#### **SIP Service**

- 1. In your web browser, enter the IP address for the IP400
- 2. Login to the IP400

Username: Admin Password: <nothing>

- 3. Navigate to Setup=>SIP Service
- 4. Enter the IP address for the PBX under SIP proxy address
- 5. For SIP proxy port enter 5060
- Leave the rest of the settings at their defaults. Minor changes may need to be made in the future once everything is tested (eg. Sometimes the DTMF method needs to be set to SIP Info)
- 7. Click Save

SIP Service		
SIP Server	SIP proxy address:	192.168.2.14
	SIP proxy port:	5060
	Registration time:	3600 (seconds)
Outbound Proxy	Enable outbound prox	у
	Outbound proxy address:	
	Outbound proxy port:	5082
Signaling	Signaling port:	5060
RIP	RTP port:	10000
IP ToS/DiffServ	Call signaling packets:	7(2 Hex digit byte value)
	RTP packets:	b0 (2 Hex digit byte value)
Service	_	
Session	Enable session timer	
	Desired retresh time:	
	winningin renesir time.	0 (SEC)
DTMF Relay	PEC2833	
	SIP INFO method	
NAT Traversal	💿 None	
	🔘 UPnP	
	Enable STUN server	00.00.100.11
	Address:	69.90.168.14
	Port:	3478

#### Line Settings

- 1. Navigate to Setup=>Line Settings
- For each analog line connected, enter the phone number for that line (Telephone number 1 is for the cable connected to Line 1, etc) \*\*Only enter numbers; no spaces, no hyphens, no dashes, no periods, no parenthesis\*\*
- 3. Enter a unique User Name for the IP400
- 4. Enter a unique Password for the IP400

(It is important to note that you should not use the same value for both username and password. Each field should have a unique value.)

4 FXO Line S	ettings		
DID	Telephone number 1:	9411234567	
	Telephone number 2:	1234567890	]
	Telephone number 3:	9876543210	]
	Telephone number 4:	555555555	]
	Fax number:	FAX	]
	Register		
	User name:	ip400	
	Password:	••••	
		Save Ca	ncel Help

5. Click Save

#### <u>Voice</u>

- 1. Navigate to Setup=>Voice
- 2. Set the VAD for the four Voice Coders to OFF
- Leave the rest of the settings at their defaults for now. Minor changes may need to be made in the future once everything is tested (eg. Caller ID Detection Time is a typical field that requires tweaking)
- 4. Click Save

Voice					
Preferred Coder	⊙ G.711U	00	9.711A	O G.729	O G.726
Voice Coders	F G 711U	Packetization			
	G.711A	20ms 💌	OFF 🔽		
	G.729	20ms 💌	OFF 💌		
	G.726	10ms 🚩	OFF 💌		
Calling Timers	Wait-for-Ansv Call limit :	wer time :	180 65535	sec sec	
Dialing Parameters	Tone out on: Tone out off: DTMF power Dial out wait	:	200 200 -130 400	msec msec (-400 ~ 30) * 0 msec	).1 dB
Gain	Transmit gair Receive gain	n: :	1 d 1 d	B	

## Rebooting

1. Navigate to Administration=>Reboot

Reboot		
	Reboot	Restart System

2. Click Restart System

### Configuring the SIP Provider in the PBX

- 1. Log into the PBX
- 2. Navigate to Providers=>SIP Providers
- 3. Click Add Provider

SIP Provider		
Name:	ip400	0
User Type:	friend 💌 🔞	
DTMF Mode:	info 💌 🔞	
Host:	dynamic	0
Register:	◯ Yes ⊙ No ◯ Custom	
Authorization:	◯ Yes ⊙ No ◯ Custom	
From Domain:	● Default ○ Custom	
Outbound Proxy:	⊙ Disabled ○ Enabled	
Username:	ip400	0
Secret:	voip1	0
Inbound Caller ID:		0
Outbound Caller ID Name:		0
Outbound Caller ID Number:		0
Call Limit:	1	
Qualify:	30000	
Default Destination:	Groups	💌 Ring Group: Ring All 💌 … 🖉
Dial Prefix:	0	
Area Code:	0	
Generate Ringing on outbound calls:		
Allow Outbound Caller to transfer:		
Allow Call Recording:		
Ext CID Override:		
Restrict CID Override:		
Can Reinvite:	◯ Yes ⊙ No ◯	N/A 🔞

- 4. Under Name and Username, enter the unique User Name entered earlier in the IP400 Line Settings page
- 5. Set User Type to Friend
- 6. Set DTMF Mode to Info
- 7. Enter dynamic as the Host address
- 8. Set Register to No
- 9. Set Authorization to No
- 10. Set From Domain to Default

- 11. Set Outbound Proxy to Disabled
- 12. Under Secret, enter the unique Password entered earlier in the IP400 Line Settings page
- 13. Set Call Limit to equal the number of analog lines connected to the IP400
- 14. Leave the rest of the fields set to their defaults, or change them in accordance with your system
- 15. Click Save Changes
- 16. Click Apply Changes

Congratulations, your IP400 FXO gateway should now be configured with your PBX, check Reporting=>Monitoring and you will see it is registered, has an IP address, and the status is OK. All you need to do at this point is set your incoming and outgoing routing in regards to the IP400 and you will be making and receiving calls using your analog lines.