SMARTER BUSINESS COMMUNICATIONS

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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

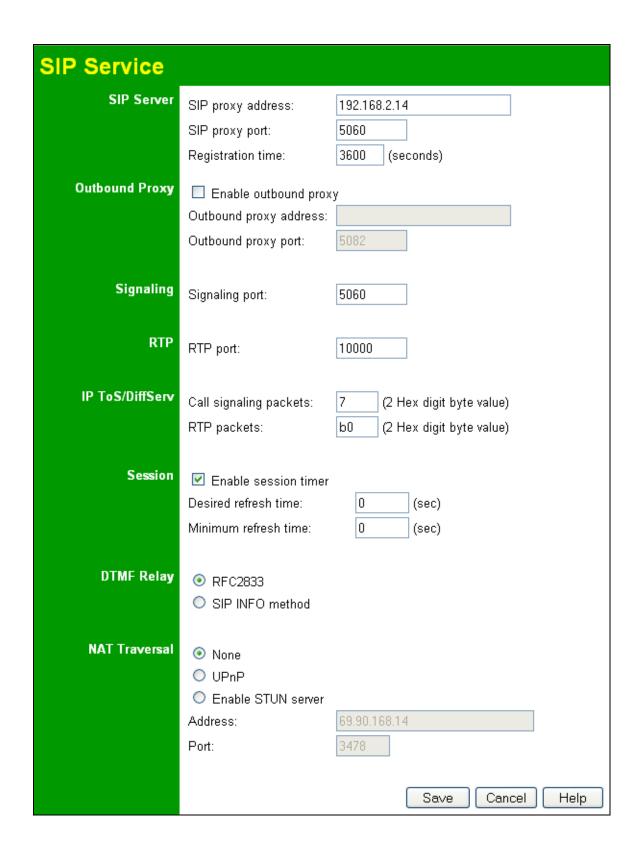5. Search the page for the IP400 MAC and note the IP address of the IP400

Configuring the IP400

SIP Service

1. In your web browser, enter the IP address for the IP400

2. Login to the IP400

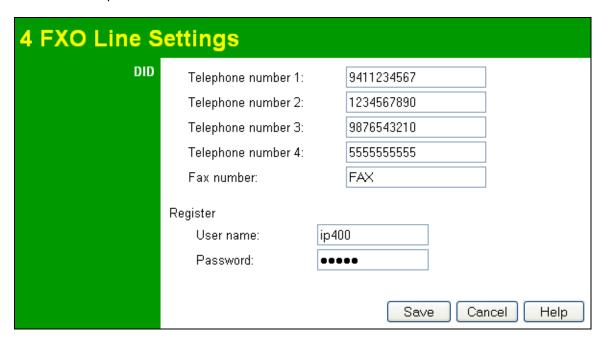   Username: Admin
   Password: <nothing>

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

6. 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 proxy

Outbound proxy address:

Outbound proxy port: 5082

Signaling

Signaling port: 5060

RTP

RTP port: 10000

IP ToS/DiffServ

Call signaling packets: 7 (2 Hex digit byte value)

RTP packets: b0 (2 Hex digit byte value)

Session

☑ Enable session timer

Desired refresh time: 0 (sec)

Minimum refresh time: 0 (sec)

DTMF Relay

◉ RFC2833

○ SIP INFO method

NAT Traversal

◉ None

○ UPnP

○ Enable STUN server

Address: 69.90.168.14
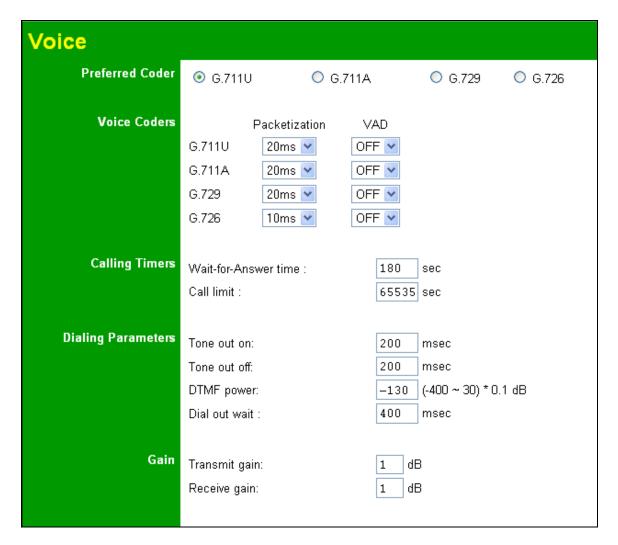
Port: 3478

[Save] [Cancel] [Help]

Line Settings

1. Navigate to Setup=>Line Settings

2. 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

4 FXO Line Settings

DID

Telephone number 1:	9411234567
Telephone number 2:	1234567890
Telephone number 3:	9876543210
Telephone number 4:	5555555555
Fax number:	FAX

Register

User name:	ip400
Password:	•••••

[Save] [Cancel] [Help]

5. Click Save

Voice

1. Navigate to Setup=>Voice

2. Set the VAD for the four Voice Coders to OFF

3. 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

Rebooting

1. Navigate to Administration=>Reboot

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
User Type:	friend
DTMF Mode:	auto
Host:	dynamic
Register:	○ Yes ⊙ No ○ Custom
Authorization:	○ Yes ⊙ No ○ Custom
From Domain:	⊙ Default ○ Custom
Outbound Proxy:	⊙ Disabled ○ Enabled
Username:	ip400
Secret:	ip400
Inbound Caller ID:	
Outbound Caller ID Name:	
Outbound Caller ID Number:	
Call Limit:	1
Qualify:	30000
Default Destination:	Groups Ring Group: Ring All ...
Dial Prefix:	
Area Code:	
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 Auto

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.