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IPR20 Quick Start Guide

The IPR20 is a 2 Port VoIP Gateway. IPitomy's IPR20 connects two analog phones to your IP network to allow VoIP calls or allows you to setup a dedicated DID for faxing. The IPR20 comes with 2 FXS ports, one WAN port and one LAN port.

5 Easy Steps to configure the IPR20

- 1) Connecting the IPR20
- 2) Creating extensions on the PBX
- 3) Registering the IPR20 with the PBX
- 4) Creating users on the IPR20
- 5) (Optional) Configuration of DID on the PBX for fax service

IPR20 LED Indicators



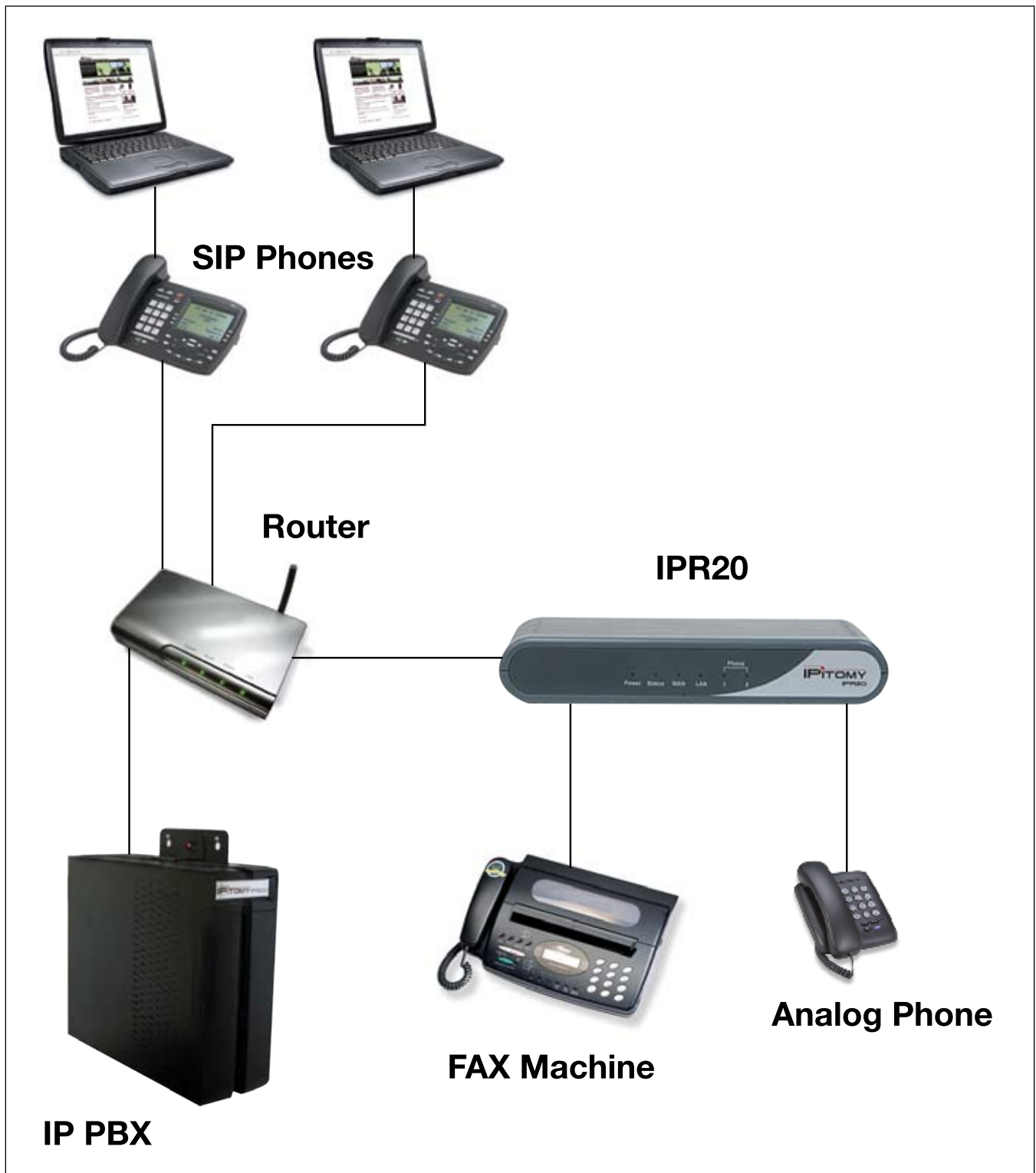
LED	Label	Description	
10/100 Ethernet	WAN LAN	On	Link Up
		Off	Link Down
		Flashing	Sending / Receiving Data Packets
Loop / Ring	FXS Phone 1 FXS Phone2	On	Off Hook
		Off	On Hook
		Flashing	Ring Out
Device	Power	On	Indicates Power Supply is Working
		Off	

IPR20 Back Panel



Ports	Label	Description
Voice Ports	Phone 1	Connects to a telephone or fax machine
	Phone 2	Connects to a telephone or fax machine
Ethernet Ports	Wan	RJ-45 Connector MDI-X Connects to a modem
	Lan	RJ-45 connector MDI connects to a PC or local network
Power	12 V/DC	Input: 12V DC
Reset	RESET	Reset System

Typical Small Office Configuration



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Connecting the IPR20

- 1) Connect a PC with a RJ-45 cable to the IPR20's LAN port
- 2) On the connected PC open a web browser and navigate to 192.168.1.1
Username: **admin**
Password: **voip**
- 3) If the main network is already a 192.168.1.xxx network you must change the LAN subnet of the IPR20. Leave the WAN side set to DHCP or assign the WAN port a static IP address on the main network.
- 4) After configuring the IP scheme of the IPR20:
Connect a RJ-45 cable from your local network to the IPR20's WAN port.

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Creating Extensions on the PBX

- 1) Log into the IPitomy PBX
- 2) Under Destinations > Extensions click add new

The screenshot displays the configuration interface for a PBX extension. It is divided into several sections:

- General Settings:** Fields include Name (2500), Number (2500), Email (jpr20@ipitomy.com), Status (active), PiN (778), Ring Time (32), Call Group (1), Pickup Group (1), and Apply Schedule (unchecked).
- Forwarding Settings:** Includes Unconditional (Disabled), Busy (Disabled), No Answer (Disabled), and Unavailable (Disabled), each with a PSTN Number field.
- Advanced Settings:** A sub-section containing:
 - Network Settings:** SIP Password (0Go8R), Location (LAN (Local)), NAT (checked), Host (dynamic), Phone Type (Generic), Phone MAC, Quality (30000), DTMF Mode (rfc2833), User Type (Friend), Call Limit (0), Can Reinvite (Yes/No/N/A), and Insecure (Very).
 - Voicemail Settings:** Mailbox, Attach to Email, Delete After Emailing, Turn Old After Emailing, Say Caller ID, Allow Review, Allow Operator, Play Envelope Message, and Auto Delete Voicemail in (90).

- 3) Configure an extension or 2 extensions for the IPR20 (see PBX manual for how to configure extensions) leave phone type as generic and make note of your USERNAME and SIP PASSWORD
- 4) Save Changes > Apply Changes

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Registering the IPR20 with the PBX

- 1) Log into the IPR20 ex (192.168.1.1) if you are on the LAN side
(DHCP address or static address if on WAN side)
- 2) Go to SIP > Server

SIP Server Configuration

Primary Server Settings	Secondary Server Settings
(Current Server : 5060 ; Domain :)	(Current Server : 0 ; Domain :)
* Address: <input type="text" value="192.168.1.249"/> (IP or FQDN)	* Address: <input type="text"/> (IP or FQDN)
* Port: <input type="text" value="5060"/>	* Port: <input type="text"/>
Domain Name: <input type="text" value="192.168.1.249"/>	Domain Name: <input type="text"/>
<input checked="" type="checkbox"/> Send Registration Request with Expire Time <input type="text" value="1800"/>	<input checked="" type="checkbox"/> Send Registration Request with Expire Time <input type="text"/>
Outbound Proxy IP: <input type="text" value="192.168.1.249"/> (IP or FQDN)	Outbound Proxy IP: <input type="text"/> (IP or FQDN)
Outbound Proxy Port: <input type="text" value="5060"/>	Outbound Proxy Port: <input type="text"/>

RTP Port Number Setting(5000~65535) ~

NAT Traversal Settings

NONE

UPnP Control Point

STUN Server IP: (IP or FQDN) STUN Server Port:

Gateway Settings

Dial Plan:

use as a quick dial function * use as a quick dial function

To enable # to be recognized as dial number To enable * to be recognized as dial number

* Leaving a setting blank will force the unit to use the information obtained via DHCP and/or DNS

** Leaving a setting blank will disable server redundancy function

*Address, Domain Name and Outbound Proxy IP are the IP address of the PBX to be registered with

*Port and Outbound Proxy Port is the standard 5060

- 3) Save SIP Settings
- 4) Restart IPR20

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Setting Users on the IPR20

- 1) Go to SIP > User1 and/or User2

User 1 Configuration					
Line 1	Phone Number	CallerID Name	Port	User Name	Password
Primary Server	2500	2500	5060	2500	*****
Secondary Server			5060		

*User Name is the extension number used for this user

*Password is the sip password configured in the PBX

- 2) Save SIP Settings
- 3) Restart IPR20
- 4) The status light on the IPR20 should be solid green if a connection to the PBX was established

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Configuring a DID for FAX service

- 1) Log into the PBX
- 2) Go to providers
- 3) Choose either a) SIP Providers or b) Hardware Trunks (this is determined by what provider you want to associate your DID FAX number with)
 - a) if using a T1 line choose your associated card and select add a line
 - b) if using a SIP provider choose edit on the proper associated provider
- 4) At the bottom of the page add your DID number (for detailed information on adding a DID please refer to the PBX documentation)
- 5) Under the destination drop down list for you DID choose the extension created for the user on the IPR20 that will be connected to the FAX machine

The screenshot shows the 'PBX DID Screen' interface. On the left, there is a text input field containing '555555555' and an 'Add' button. Below this is a 'Save Changes' button. In the center, there is a 'Phone Numbers' section with a help icon and a description: 'Phone Numbers- this section contains phone numbers, (sometimes called DIDs) associated with this provider.' To the right, a dropdown menu is open, displaying a list of destinations: 'None', 'Conference Room 1', 'Conference Room 2', 'Menu:', 'Menu: test 2', 'Menu:', 'Ring Group: Ring All', 'Schedule: ext_2500', 'Schedule: Late Ring', 'Schedule: ext_777', 'Schedule: ext_511', 'Schedule: ext_1200', 'Schedule: ext_411', 'Schedule: ext_1100', 'Schedule: ext_102', 'Schedule: ext_101', 'Schedule: ext_100', 'Extension: 100', 'Extension: 101', and 'Extension: 102'. Below the dropdown is a 'Destination:' label, a dropdown menu currently set to 'None', and a 'Set' button. A 'Remove' button is also visible to the right of the dropdown list.

- 6) Set the destination and Save Changes > Apply Changes