

IPr20 Quick Guide

The IPr20 is a 2 port FXS gateway that allow for integration of analog devices with your IP PBX.



IMPORTANT: As with any device that has a LAN and a WAN interface you need to ensure that they are configured to different subnets. If you are configuring an IPr20 on a 192.168.1.x network, you will first need to connect your PC to the LAN port, access the device by its default IP of 192.168.1.1, and change the LAN IP to a different subnet (eg. 192.168.4.1)

Accessing the IPr20

1. Connect the WAN port of the IPr20 to your network
2. Log into the PBX
3. Navigate to Destinations=>Extensions
4. Click AutoDiscovery to scan your network
5. Search the page for the IPr20 MAC and note the IP address of the IPr20

Configuring the IPr20

Registering to the PBX

1. In your web browser, enter the IP address for the IPr20
2. Login to the IPr20

Username: admin
Password: voip
3. Navigate to SIP=>Server
4. Under Primary Server Settings set the *Address, Domain Name, and Outbound Proxy IP to the IP address of the PBX
5. For *Port and Outbound Proxy Port enter 5060
6. Leave the rest of the settings at their defaults

SIP Server Configuration

<p>Primary Server Settings</p> <p>(Current Server: 192.168.2.18 : 5060 ; Domain: 192.168.2.18)</p> <p>* Address: <input type="text" value="192.168.2.18"/> (IP or FQDN)</p> <p>* Port: <input type="text" value="5060"/></p> <p>Domain Name: <input type="text" value="192.168.2.18"/></p> <p><input checked="" type="checkbox"/> Send Registration Request with Expire Time <input type="text" value="3600"/></p> <p>Outbound Proxy IP: <input type="text" value="192.168.2.18"/> (IP or FQDN)</p> <p>Outbound Proxy Port: <input type="text" value="5060"/></p>	<p>Secondary Server Settings</p> <p>(Current Server: : 0 ; Domain:)</p> <p>* Address: <input type="text"/> (IP or FQDN)</p> <p>* Port: <input type="text" value="5060"/></p> <p>Domain Name: <input type="text"/></p> <p><input type="checkbox"/> Send Registration Request with Expire Time <input type="text" value="3600"/></p> <p>Outbound Proxy IP: <input type="text"/> (IP or FQDN)</p> <p>Outbound Proxy Port: <input type="text" value="5082"/></p>
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RTP Port Number Setting(5000~65535) ~ **Transport type Setting**

NAT Traversal Settings

NONE

UPnP Control Point

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

* 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

7. Click Save SIP Settings
8. Restart the IPr20 by clicking the Reset button

Configuring Users

1. Prior to this step, you will need to create the extensions to be used in the PBX. See the PBX user manual for steps on extension creation
2. Login to the IPr20
3. Navigate to SIP=>User 1 to configure the extension that will be assigned to the Line 1 port on the IPr20, or User 2 for the extension that will be assigned to the Line 2 port
4. For the Primary Server, enter the extension number for the following fields: Phone Number, CallerID Name, and User Name
5. For the Primary Server, the Password to be entered is the SIP password for the extension being used (found by editing the extension and clicking Advanced)
6. Port should be 5060
7. Under Supplementary Service Subscription, uncheck Enable Call Waiting
8. Leave the rest of the settings at their defaults for now

User 1 Configuration

Line 1	Phone Number	CallerID Name	Port	User Name	Password
Primary Server	<input type="text" value="8010"/>	<input type="text" value="8010"/>	<input type="text" value="5060"/>	<input type="text" value="8010"/>	<input type="text" value="*****"/>
Secondary Server	<input type="text"/>	<input type="text"/>	<input type="text" value="5060"/>	<input type="text"/>	<input type="text"/>

Line1 AEC Control

Line1 Gain Control

Input Gain Control (-12 ~ 18)db db

Output Gain Control (-12 ~ 18)db db

Supplementary Service Subscription

- Enable Call Waiting (Reject second incoming call)
- Enable Caller-ID Display
- Reject anonymous call
- Block Caller-ID in outgoing call

Distinctive Ring Settings

Ring1 Caller:	<input type="text"/>	Ring2 Caller:	<input type="text"/>
Ring3 Caller:	<input type="text"/>	Ring4 Caller:	<input type="text"/>
Ring5 Caller:	<input type="text"/>	Ring6 Caller:	<input type="text"/>
Ring7 Caller:	<input type="text"/>	Ring8 Caller:	<input type="text"/>

9. Click Save SIP User Settings

Other Configuration

1. In the IPr20, navigate to CODECS
2. For all 5 codecs, set Silence Suppression to OFF
3. If you are using the IPr20 to integrate a fax machine, set the Jitter Buffer to Fixed Jitter Buffer

Audio/CODEC Configuration

CODECS

Selected	Silence Suppression
G711U	OFF ▼
G711A	OFF ▼
<input type="checkbox"/> G723	OFF ▼
<input type="checkbox"/> G726	OFF ▼
<input checked="" type="checkbox"/> G729	OFF ▼

Packetization 20ms ▼

Jitter Buffer

- Adaptive Jitter Buffer: 100ms ▼ (maximum playout delay in milliseconds)
40ms ▼ (minimum playout delay in milliseconds)
- Fixed Jitter Buffer: 40ms ▼ (fixed playout delay in milliseconds)
- Automatically switch to Fixed Jitter Buffer upon fax/modem tone detection

Save CODEC Configuration

4. Click Save CODEC Configuration
5. Restart the IPr20

Congratulations, you have successfully configured your IPr20 to work with the PBX. Now you will be able to connect analog devices to the Line ports on the IPr20 and make calls, receive faxes, etc.