

## Spectrum Enterprise SIP Trunking Service

### IPitomy IP1100, IP1200, IP2000, IP5000 v5.0.5 to 5.1.3

### IP PBX Configuration Guide

#### About Spectrum Enterprise:

Spectrum Enterprise is a division of Charter Communications following a merger with Time Warner Cable and acquisition of Bright House Networks. Spectrum Enterprise is a national provider of scalable, fiber technology solutions. The Spectrum Enterprise portfolio includes networking and managed services solutions, including Internet access, Ethernet and Managed Network Services, Voice, TV and Cloud solutions. Our industry-leading team of experts works closely with clients to achieve greater business success.

#### About this document:

Spectrum Enterprise assures IP PBX compatibility by conducting interoperability testing to ensure any potential compatibility issues have been resolved prior to installation. Please review the IP PBX configuration instructions in this guide prior to your installation date.

Be advised that this document may contain references to Charter or Charter Business. All references to Charter should be read as Spectrum Enterprise.

**Thank you,**

**Spectrum Enterprise**

# IPitomy IP1100, IP1200, IP2000, IP5000 IP PBX Configuration Guide



## 1 Introduction

The document describes how to configure the IPitomy IP1100, IP1200, IP2000 and IP5000 IP PBX version 5.0.5 through 5.1.3 to interoperate within the Charter network. It does not provide any information how to provision, configure or use the features of the IP PBX. Please refer to the documentation provided with the IP PBX or contact the vendor.

Please note testing was conducted with, and the configuration steps refer to, the IPitomy IP1200 with version 5.0.5, but apply to the other models and versions as listed above.

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## 2 Configuration

### 2.1 Network Setup

Follow the step-by-step procedure to setup the network.

Step	Action
1	Review the Ipitomy wiki ( <a href="http://wiki.ipitomy.com/wiki/IPPBX_IMM_DataNetworkConfig">http://wiki.ipitomy.com/wiki/IPPBX_IMM_DataNetworkConfig</a> ). Perform the initial network configuration.
2	Login to the IP1200 GUI with the appropriate credentials. Default login name is <b>pbxadmin</b> and the password is <b>ipitomy</b> . Click on the <b>Login</b> button.
3	Go to the next table.



Step	Action
1	Navigate to <b>System -&gt; Networking</b> Result: TCP/IP Settings opens.
2	Ensure that all necessary IP addresses are filled in correctly. Consult the network administrator for appropriate IP address parameters.
3	Go to the next table.



Step	Action
1	Navigate to <b>PBX Setup</b> -> <b>SIP</b> Result: SIP Network Setting opens.
2	Add the appropriate network IP address and netmask. <b>Note:</b> It is suggested by Ipitomy that if a network is already set, delete it and add a network parameter that is appropriate to the site's network topology.
3	Procedure completed.



## 2.2 SIP Trunk Setup

Follow the step-by-step procedure to setup the SIP trunk.

Step	Action	Result
1	Navigate to <b>Providers</b> -> <b>SIP Providers</b> -> <b>Add Provider</b> .	SIP Provider opens.
2	Go to the next table.	



Step	Action	Result
1	In SIP Provider In Name: Enter: <b>appropriate name</b>	
2	In User Type: Select <b>Peer</b>	
3	In DTMP Mode: Select <b>rfc2833</b>	
4	In Host: Enter: the IP address of the e-SBC.	
5	In Register: Click <b>No</b>	
6	In Authentication: Click <b>No</b>	
7	In From User: Click <b>Custom</b> Enter: <b>Pilot DID of the SIP Trunk</b> <b>Note:</b> Provider's SIP Trunk	
8	In Outbound Proxy: Enter: <b>IP address of the e-SBC</b>	

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9	In Outbound Caller ID Name: Enter: <b>Appropriate name.</b>	
10	Go to the next table.	

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Providers / SIP Providers / Edit SIP Provider

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Version: 5.0.5  
1200-0114E202  
Logout | Apply Changes

**Edit SIP Provider** Help

- System
- Providers
- Hardware Trunks
- SIP Providers
- Destinations
- Applications
- Call Routing
- PBX Setup
- Reporting
- Diagnostics

**SIP Provider**

Name: Charter

User Type: peer

DTMF Mode: rfc2833

RFC2833 Compensate: No

Host: 10.70.57.3

Port:  Default  Custom

Register:  Yes  No  Custom

Authentication:  Yes  No  Custom

Auth User:  Default  Custom

From User:  Default  Custom 8644385386

From Domain:  Default  Custom

Realm:  Default  Custom

Outbound Proxy:  Disabled  Enabled 10.70.57.3

Username:

Secret:

Inbound Caller ID:

Outbound Caller ID Name: tekVizion

Outbound Caller ID Number:



Step	Action	Result
1	In Call Limit: Enter: <b>5</b>	
2	In Allow Codecs: Enable <b>G.711(ulaw)</b>	
3	Go to the next table.	



Call Limit:	5												
Qualify:	30000												
Default Destination:	None												
Dial Prefix:													
RTP Keep-alive:													
Generate Ringing on outbound calls:	<input type="checkbox"/>												
Allow Outbound Caller to transfer:	<input type="checkbox"/>												
Allow Call Recording:	<input type="checkbox"/>												
Ext CID Override:	<input type="checkbox"/>												
Restrict CID Override:	<input type="checkbox"/>												
Can Reinvite:	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A												
Send Remote Party ID	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A												
Trust Remote Party ID:	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A												
Insecure:	Very												
Allow Codecs:	<table border="1"> <thead> <tr> <th>Disabled</th> <th>Enabled</th> </tr> </thead> <tbody> <tr> <td>G.711 (alaw)</td> <td>G.711 (ulaw)</td> </tr> <tr> <td>G.723.1</td> <td></td> </tr> <tr> <td>G.726</td> <td></td> </tr> <tr> <td>G.722</td> <td></td> </tr> <tr> <td>GSM</td> <td></td> </tr> </tbody> </table> <p style="text-align: center;"> <input type="button" value="Add"/> <input type="button" value="Delete"/> <input type="button" value="Up"/> <input type="button" value="Down"/> </p>	Disabled	Enabled	G.711 (alaw)	G.711 (ulaw)	G.723.1		G.726		G.722		GSM	
Disabled	Enabled												
G.711 (alaw)	G.711 (ulaw)												
G.723.1													
G.726													
G.722													
GSM													

Step	Action	Result
1	Under Phone Numbers Enter: External DID Click <b>Add</b> button.	
2	In Destination: Select the first allocated extension number. Click <b>Set</b> button.	
3	Click <b>Save Changes</b> button.	
4	Procedure completed.	

## 2.3 Adding Extensions

Follow the step-by-step procedure to add extensions.

**Phone Numbers**

This section contains phone numbers, (sometimes called DIDs) associated with this provider.

Destination: (321) - Extension 321



Step	Action	Result
1	Navigate to <b>Destinations</b> -> <b>Extensions</b>	
2	At the Add/Import tab Click the <b>Add</b> button.	
3	Go to the next table.	

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Destinations / Extensions

Extensions
Help

Add / Import
View
Search
Auto-Discovery
Departments

Extensions: 10 Add
 CSV File:  No file selected.

**Extensions**

3 items

	Name	Number	E-mail	Status	Actions
<input type="checkbox"/>	Extension 321	321		active	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
<input type="checkbox"/>	Extension 323	323		active	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
<input type="checkbox"/>	Extension 324	324		active	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

Step	Action	Result
1	Under Extension Name Enter: <b>Extension name, extension number, device type, and MAC address</b>	
2	Click the <b>Create</b> button.	Extension Result screen opens.  The screen will show whether the extension is successful or not.
3	Go to the next table.	

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Destinations / Extensions / Create Extensions

**Create Extensions** Help

System  
Providers  
Destinations  
Applications  
Call Routing  
PBX Setup  
Reporting  
Diagnostics

AutoNumber  Start At:

Extension Name	Email Address	Ext. #	Device Type	MAC
Extension 322	Enter a valid email adc	322	IPitomy 3XX	8CB82C204B16
	Enter a valid email adc		Generic	
	Enter a valid email adc		Generic	
	Enter a valid email adc		Generic	
	Enter a valid email adc		Generic	
	Enter a valid email adc		Generic	
	Enter a valid email adc		Generic	
	Enter a valid email adc		Generic	
	Enter a valid email adc		Generic	
	Enter a valid email adc		Generic	

Create

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Step	Action	Result
1	At the Extensions screen,  The newly created extension will appear in the extension list.	
2	Click <b>Auto Discovery</b> tab.	
3	Click <b>Auto-Discovery (scan network)</b> button.	
3	Go to the next table.	

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Destinations / Extensions

**Extensions** Help

System Providers Destinations Applications Call Routing PBX Setup Reporting Diagnostics

Add / Import View Search **Auto-Discovery** Departments

Extensions: 10 Add CSV File: Browse... No file selected. Import Export CSV

**Extensions**

4 items Edit PBX Settings Delete All

<input type="checkbox"/>	Name	Number	E-mail	Status	Actions
<input type="checkbox"/>	Extension 321	321		active	
<input checked="" type="checkbox"/>	Extension 322	322		active	
<input type="checkbox"/>	Extension 323	323		active	
<input type="checkbox"/>	Extension 324	324		active	

Step	Action	Result
1	The next screen shows the discovered phone extensions.  Select the phone extension not recognized by the PBX.  Check the checkbox.	<b>Note:</b> See the brown highlight.
2	Go to the next table.	

IPITOMY SMARTER BUSINESS COMMUNICATIONS **APPLY CHANGES** ipitomypbx  
Version: 5.0.5  
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Destinations / Extensions / Auto-Discovery

**Auto-Discovery** Help

System Providers Destinations Applications Call Routing PBX Setup Reporting Diagnostics

Edit Selected View Settings Commands

Create Assign Unassign Unassign & Default

**Active Filter: Type**

<input type="checkbox"/>	Assigned	Device	Status	MAC Address	IP
<input checked="" type="checkbox"/>	(321) - Extension 321	IPitomy 3XX	Online	8C882C20499F	10.70.57.19
<input checked="" type="checkbox"/>	(322) - Extension 322	IPitomy 3XX	Online	8C882C204816	10.70.57.17



Step	Action	Result
1	Click the <b>Commands</b> tab.	
2	Click the <b>Assign, Configure &amp; Restart</b> button.	
3	Go to the next table.	

The screenshot shows the IPITOMY web interface. At the top, there is a navigation bar with the IPITOMY logo and 'SMARTER BUSINESS COMMUNICATIONS'. The page title is 'Auto-Discovery'. On the left, there is a sidebar menu with options like System, Providers, Destinations, Applications, Call Routing, PBX Setup, Reporting, and Diagnostics. The main content area has tabs for 'Edit Selected', 'View Settings', and 'Commands'. The 'Commands' tab is active, showing buttons for 'Factory Default', 'Restart', 'Configure & Restart', and 'Assign, Configure & Restart'. Below the buttons is an 'Advanced Settings' link and an 'Active Filter: Type' section. A table displays the following data:

Assigned	Device	Status	MAC Address	IP	
<input type="checkbox"/>	(321) - Extension 321	IPitomy 3XX	Online	8CB82C20499F	10.70.57.19
<input checked="" type="checkbox"/>	(322) - Extension 322	IPitomy 3XX	Online	8CB82C204816	10.70.57.17

Step	Action	Result
1	Result: A Success message indicates the extension was successfully configured and registered.	
2	Click <b>OK</b> button.	
3	Procedure completed.	

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Destinations / Extensions / Auto-Discovery

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**Auto-Discovery** **Help**

Results:

8CB82C204B16	10.70.57.17	Access OK
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