

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



1 Introduction

The document describes how to configure the IPitomy IP1100, IP200, 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.

2 Configuration

2.1 Network Setup

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

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

Арми	N LOGIN USER LOGIN	
Jser Name: pbxadmin	User Name:	
Password:	Password:	
Login	Login	
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	and the second	

Step	Action
1	Navigate to System -> Networking 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.

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	TCP / IP Settings						
Networking	Static IP						
Access Control	IP Address:	10	. 70	. 57	. 2		
Service Control	Subnet Mask:	255	. 255	. 255	. 0		
 Providers 	Default Gateway:	10	. 70	. 57	. 1		
 Destinations 	Static DNS:	10	. 64	. 1	. 3		
 Applications 	Static DNS 2:						
Call Routing	Static DNS 3:				1.		
PBX Setup	Hostname	ipiton	nypbx				
Reporting							
 Diagnostics 	Save Changes						
	Reset Hosts Files						



Step	Action
1	Navigate to PBX Setup -> SIP Result: SIP Network Setting opens.
2	Add the appropriate network IP address and netmask. Note: 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.

		Version: 5.0.
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IP Setup		Hel
System	SIP Networking Settings	
System	Local Networking Sectings	
Providers	Local Networks & Subnet Masks: 10.70.57.0/255.255.255.0	
Destinations		
Applications	· · · · · · · · · · · · · · · · · · ·	
Call Routing		
PRX Setun	Delete Selected	
- or occup		
Chat Database	Add Local Network: IP Address Subnet Mask	
Email TP		
eature Codes		
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creen Pop URLs	0.0.0	
Services Software Updates	Advanced	
/oicemail	Auvanceu	
Reporting		
Diagnostics	Save Changes	
	Consider @2012.10	- 110
	www.ipitamy.com (941) 305-2200 i support@ipitam	v com



2.2 SIP Trunk Setup

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

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

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	IY			Version: 5.0
MARTER BUSINESS COMMUNIC	ATIONS			1200-0114E20
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System	dd Provider			
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SIP Providers	Charter		8	
Destinations				
bestinations				
Applications				
Call Routing				
PBX Setup				
Reporting				
Diagnostics				
		Copyrigh	©2013 IPitomy Communications, LLC	
		www.inito	av com I (941) 205-2200 I support@initamy.com	

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

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

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MARTER BUSINESS CON				Version: 5.0
roviders / SIP Provi	ders / Edit SIP Provider			1200-0114E20
dit SIP Provide				He
System	SIP Provider			
Providers	Name:	Charter		
lardware Trunks	User Type:	peer 💌		
IP Providers	DTMF Mode:	rfc2833 💌		
Destinations	RFC2833 Compensate:	No 💌		
Applications	Host:	10.70.57.3		
Call Routing	Port:	Oefault Custom		
PBX Setup	Register:	🔍 Yes 🔍 No 🔍 Custom		
Reporting	Authentication:	🔘 Yes 🖲 No 🔘 Custom		
Diagnostics	Auth User:	Default Custom		
	From User:	Default Custom	8644385386	
	From Domain:	Ø Default Custom		
	Realm:	Ø Default O 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: 5	
2	In Allow Codecs: Enable G.711(ulaw)	
3	Go to the next table.	

Call Limit:	5
Qualify:	30000
Default Destination:	None
Dial Prefix:	
RTP Keep-alive:	
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 N/A
Send Remote Party ID	Yes No IN/A
Trust Remote Party ID:	Yes No N/A
Insecure:	Very 💌
Allow Codecs:	Disabled Enabled G.711 (alaw) G.711 (ulaw) G.723.1 G.711 (ulaw) G.726 G.722 G.722 Composition GSM Composition Add Delete

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

2.3 Adding Extensions

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

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Add
Destination: (321) - Extension 321 Set



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

Assessment / LALL	insions						Log	gout Apply (
tensions								
System	Add / Impor	t View Search Auto-D	iscovery Department	ts				
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Step	Action	Result
1	Under Extension Name Enter: Extension name, extension number, device type, and MAC address	
2	Click the Create button.	Extension Result screen opens. The screen will show whether the extension is successful or not.
3	Go to the next table.	

Create Extension	ons						He
System							
Providers	AutoNumber 🔲 St	art At:					
 Destinations 							
Extensions Groups	Extension Name	Email Address	Ext.#	Device Type		MAC	
Menus Conferences	Extension 322	Enter a valid email adc	322	[IPitomy 3XX	-	8CB82C204B16	
Voicemail Schedules		Enter a valid email adc		Generic	-		
Branch Offices		Enter a valid email adc		Generic	-		
Applications		Enter a valid email adc		Generic	•		
Call Routing		Enter a valid email adc		Generic	-		
PBX Setup	-	Enter a valid email adc		Generic	-		
Reporting		Enter a valid email adc		Generic	-		
Diagnostics		Enter a valid email adc		Generic			
	0	Enter a valid email adc		Generic	-		
		Enter a valid email adc		Generic	-		



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

MARTER BUSINESS CO	MMUNICATIONS						
estinations / Ext	ensions						Logout
xtensions							
• System	Add / Impor	rt View Search Auto-I	Discovery Department	ts			
Providers							
 Destinations 	Extension	s: 10 Add CSV File	e: Browse_ No fil	le selected.	Import	Export CSV	
Extensions							
Groups Menus							
Groups Menus Conferences Voicemail Schedules Branch Offices	Extensions	1					
Groups Menus Conferences Voicemail Schedules Branch Offices Applications	Extensions 4 items	,			Ed	it PBX Setting	s Delete A
Groups Menus Conferences Voicemail Schedules Branch Offices • Applications • Call Routing	Extensions 4 items		Number	E-mail	Ed	lit PBX Setting A	s Delete A
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Groups Menus Conferences Voicemail Schedules Branch Offices Applications • Call Routing • PBX Setup • Reporting • Diagnostics	Extensions 4 items		Number 321 322 323	E-mail	Ed Status active active active	lit PBX Setting	s Delete A cctions

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

ARTER BUSINESS CO	OMMUNICATIONS				1200 011452
stinations / Ext	ansions / Auto-Discovery				Logout Apply Chan
uto-Discove	N				Eugour Apply Chan
System					
Providers	Edit Selected View Set	tings Commands			
Destinations	Create Assign	Unassign Unassign & Det	fault		
xtensions Groups Jenus Conferences Joicemail chedules	Active Filter: Type				
Iranch Offices	Assigned	Device	Status	MAC Address	IP
Applications	(321) - Extension 321	 IPitomy 3XX 	Online	8CB82C20499	F 10.70.57.19
Call Routing	(322) - Extension 322	 IPitomy 3XX 	Online	8CB82C20481	6 10.70.57.17
PBX Setup					1
Reporting					
Diagnostics)				

Тор

Step	Action	Result	
1	Click the Commands tab.		
2	Click the Assign, Configure & Restart button.		
3	Go to the next table.		

stinations / Ext	ensions / Auto-Discovery				L	ogout Apply C	
System							
Providers	Edit Selected View Setting	gs Commands					
Destinations	Factory Default Resta	rt Configure & Restart	Assign, Configure & Re	start			
Groups Menus Conferences	Advanced Settings						
Voicemail Schedules Branch Offices	Active Filter: Type						
Applications	Assigned	Device	Status		MAC Address	IP	
The second	(321) - Extension 321 -	IPitomy 3XX	Online	2	8CB82C20499F	10.70.57.19	
Call Routing		IPitomy 3XX	Online	0	8CB82C204B16	10.70.57.17	
PBX Setup	(322) - Extension 322 -						

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

SMARTER BUSINESS COMMUNICATIONS Destinations / Extensions / Auto-Discovery		ipitomypbx Version: 5.0.5 1200–0114E202 Logout Apply Changes
Auto-Discovery		nep
	Results: 8CB82C204B16 10.70.57.17 Access OK	

TOP

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