

Tech Bulletin 2011-004

IPitomy – Paetec SIP Provider Configuration

Description

This guide is intended to streamline the installation of Paetec SIP trunks in the IPitomy IP PBX.

Procedure – Add Provider

 Navigate to the IPitomy IP PBX web interface as shown (usually 192.168.1.249/ippbx). (Your network may be different.) Under Providers select SIP Providers. The current Providers are listed—if this is the first, none will be listed here.

Providers / SIP Provid	ders		
SIP Providers			
► System			
 Providers 	Add Provider		
Hardware Trunks SIP Providers	Name	Action	
Destinations	ip400-130		

- 2. Select Add Provider
- 3. The screen at the right opens.
- 4. Input a name for this provider... we used "Paetec".
- 5. Match all of the fields as they are listed.
- 6. Your "HOST" may be different. It is provided by Paetec.
- 7. The Username and Secret are the Trunk Group ID provided by Paetec.
 - a. This number cannot be used in the DID number field... it is the lead (Pilot) number.
- Input the Call Limit...based on the subscription. (Ours was "3")
- Select a "Default Destination" from those available if so desired. If None is selected the destination of non-DID incoming calls on this carrier will route to the destination in Call Routing—Incoming.

SIP Provider			
Name:	Paetec		
User Type:	peer 🔻		
DTMF Mode:	rfc2833 👻		
RFC2833 Compensate:	Yes 🔻		
Host:	64.199.64.220		
Port:	Oefault Custom		
Register:	💿 Yes 🔘 No 🔘 Custom		
Authentication:	🔘 Yes 🖲 No 🔘 Custom		
Auth User:	Oefault Custom		
From User:	Default Custom None		
From Domain:	Default Custom C		
Realm:	Default Custom C		
Outbound Proxy:	Disabled Enabled		
Username:	7133434377		
Secret:	7133434377		
Inbound Caller ID:			
Outbound Caller ID Name:	IPitomy		
Outbound Caller ID Number:			
Call Limit:	3		
Qualify:	30000		
Default Destination:	Menus Menu: Paul-Test		
Dial Prefix:			
RTP Keep-alive:			
Generate Ringing on outbound calls:			



10. Check "Allow Outbound Caller to Transfer" ONLY if you wish for calls being placed over these trunks to be allowed to control the PBX.

TYPICALLY this is NOT checked!

- 11. Allow Call Recording is also optional.
- 12. Choose from the available CODECs and click **Add** to "Add" them.

Paetec's native CODEC is G.729. However they also support G.711u as a "fall-back".

- 13. Select each added CODEC and use the Up and Down buttons to position them to select the most desired first (top). Notice that the G.729 CODEC is on the top of our list... it will be the first CODEC protocol selected.
- 14. If there are DID (Direct Inward Dial) numbers to be assigned. Add these one at a time in the Phone Numbers field at the bottom.
 - a. Enter the number and

then press the **Add** button.

 Once added select that number and assign a destination using the drop-down.

> Notice that the three test DID's we were assigned are listed in our table... we assigned the "7133434380" number to ring at extension 2233 using the Follow-Me Forward feature.

Note: It is not necessary to define the destination of the prime number (lead number) as this will follow the Default Destination OR Call Routing—Incoming destination if none is assigned here.

15. Don't forget to click

Save Changes

if not saved, all the information on this page must be entered again.

Allow Call Recording: Ext CID Override:		
Ext CID Override:		
		Note: "Insecure" is a
Restrict CID Override:		Protocol matching parameter and has
Can Reinvite:	🖲 Yes ◯ No ◯ N/A	nothing to do with this
Send Remote Party ID	🔘 Yes 🔍 No 🔘 N/A	carriers security.
Trust Remote Party ID:	◉ Yes © No © N/A	(Set it to "Very")
Insecure:	Very -	
	Add	Delete
Phone Numbers		
Phone Numbers This section contains phone numbers, ((sometimes called DIDs) associate	ed with this provider.
	(sometimes called DIDs) associate 7133434378 7133434379 7133434380 * Remove	ed with this provider.



Procedure—SIP (Global)

1. Navigate to the PBX Setup/SIP Setup page. Note:

This is where "Global" settings are established. These settings are referenced whenever they are not specifically set in the SIP Provider definition—some are unique to this page and hence general to all SIP Providers.

- The only item that we set in this area of system programming was the RTP Timeout. (In Advanced) We set this to 120 seconds as a precaution to disconnect inactive calls with no voice traffic during a 2-minute period.
- 3. Don't forget to click

Save Changes

if not saved, the information on this page must be entered again.

PBX Setup / SIP Setup				
SIP Setup				
▶ System	SIP Networking Settings			
Providers	Local Networks & Subnet N			
DestinationsCall Routing				
▼ PBX Setup				
General Database Voicemail SIP Prompts Music On Hold Feature Codes Services	A RTP Keep-alive: RTP Timeout: RTP Timeout on Hold:	120 RTP Timeout: 120		
▶ Reporting	Trust Remote Party ID:			
	External IP: Advanced			



Procedure—Call Routing-Outgoing

1. Navigate to the Call Routing/Outgoing page. Note:

This is where user dialing strings are associated to trunks for use with what was dialed.

- 2. This may be an existing Outbound Route or new and specific for the trunk being added.
- 3. In this example the digits to be routed are those expected when calling international numbers. ... The dialed number will begin with "011" and then any digits... In this digits-dialed-pattern Exact Length is set to "No".
- 4. Refer to the IPitomy 1100+ Manual for details on routing dialed digits.

http://www.ipitomy.com/webrelease/IPitomy/IP1100+/IPitomy%20IP1100+%20Manual.pdf

- 5. Notice that the added SIP Trunk (Provider) is now available for selection in the drop-down list.
- Add Selected your added Provider (ours is Paetec) and clicked 6.

Call

Edi

7. You must also click

Save Changes before other changes to this trunk can be applied to the routing characteristics.

- 8. Notice that we placed this trunk at the top of the list for this dialing string. That means it will be selected first for calls placed with this digit string. (The trunks in "Boston" will be selected second.)
- 9. Here again reference the IPitomy 1100+ Manual for details on programming parameters.
- 10. When you're done, don't forget to click

Save Changes ...if not saved, the

information on this page must be entered again.

Call Routing / Outgoing	/ Edit Outgoing R	loute			
Edit Outgoing Rou	te				
▶ System	Edit Outbound Route				
 Providers Destinations 	Route Name	Paetec			
✓ Call Routing	Route Type	Paetec	-		
Incoming Outgoing Class Of Service	Start Pattern		011X		
PBX Setup	Digits		4		
Reporting	Exact Length Subroute Digits		No 🔻		
			0		
	Subroute Offset		0		
	Trunks:	Paetec - Boston	Up Dn Add Delete	Paetec	Strip Digits 0 Prefix Digits
	Disable Ext CID	Override		no 🔻	
	Force Use PSTN CID			no 🔻	
	Override Default CID(name)			no 🔻	
	Override CID Name				
	Override Default CID(number)			no 🔻	
	Override CID Number				
	Save Changes				



Procedure—Class Of Service

 Navigate to the Call Routing/Class Of Service page. Note:

This is where trunks are assigned as those allowed to be used by the various classes of service.

2. ONLY if a NEW Outgoing Route was created is this step necessary. ...generally there are only a few Classes Of Service. In the picture below the test system COS "Paul Test" is shown. Notice that the newly created Outbound Route "Paetec" is listed here and selected from the drop-down list.

3. Click Add to add this route to this COS.	Note: This page does not have a Save Changes button	
Incoming Outgoing Class Of Service Route Action • PBX Setup • Reporting Outbound Routes Paetec • Add Custom Routes • Add	init page does not have a ipitomy-main Version: 4.0.7 IPitomy Testing Logout Apply Changes ame Procedure—Finalize When all changes are complete you MUST click Apply Changes to make the changes operational in the PBX. Procedure—Test the Trunks I. At a telephone that is registered to the PBX, and a member of the Class Of Service programmed above, dial a number that matches the string input into Call Routing—Outgoing. I. This call should be connected using the SIP Provider you have just installed. Congratulations! Your Paetec Trunks are now functional!	
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