IPitomy-Windstream

Description

This guide is intended to streamline the installation of Windstream SIP Trunks in the IPitomy IP PBX.

Procedure—Add Provider

- 1. Navigate to the IPitomy IP PBX web interface as shown (usually 192.168.1.249/ippbx). (Your network may be different.)
- 2. Under Providers select SIP Providers. The current Providers are listed—if this is the first, none will be listed here.
- 3. Select Add Provider
- 4. The screen at the right opens.
- 5. Input a name for this provider... being descriptive is helpful... ours is "Windstream".
- 6. Match all of the fields as they are listed here.
- User Name and Secret (password) are necessary only if instructed to use them by Windstream.
- Input the Caller ID data desired. The CID data here represents the content of our testing.
- 9. Input the maximum calls that can be placed on this provider. (Ours is Call Limit "2".)
- 10. Select a "Default Destination" from those available if so desired. If none is selected here the destination of any incoming call on this carrier that is NOT defined as a DID will route to the destination in Call Routing— Incoming.
- 11. 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!

12. Continue on through the remaining fields (shown on next page).

S Providers / SIP Provi	ders	
SIP Providers		
 System 		
 Providers 	Add Provider	
Hardware Trunks	Name	Action
Destinations	ip400-130	/ 😣

SIP Provider	
Name:	Windstream
User Type:	friend 🔻
DTMF Mode:	auto 💌
RFC2833 Compensate:	No 🔻
Host.	74.223.49.125
Port:	Default Custom C
Register:	🔘 Yes 🖲 No 🔘 Custom
Authentication:	🔘 Yes 🖲 No 🔘 Custom
Auth User:	Default Custom C
From User:	Oberault Custom
From Domain:	Default Custom C
Realm:	Oberault Custom
Outbound Proxy:	Oisabled Enabled
Username:	
Secret:	
Inbound Caller ID:	
Outbound Caller ID Name:	ipitomy wind
Outbound Caller ID Number:	8643350873
Call Limit:	2
Qualify:	30000
Default Destination:	Menus Menu: Main Menu
Dial Prefix:	
Area Code:	
Generate Ringing on outbound calls:	
Allow Outbound Caller to transfer:	V



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13. Allow Call Recording is also optional.

- 14. Choose from the available CODECs and click to "Add" them.
- 15. If there is a preferred order, select each added CODEC and use the Up and Down buttons to position them hierarchically to select the most desired first (top).

Note: "Insecure" is a Protocol matching parameter and has nothing to do with this carriers security. (Set it to "Very")

16. If there are DID (Direct Inward Dial) numbers to be assigned. Add these one at a time in the Phone Numbers field a

at the bottom. - Enter the number and	Allow Call Recording:	✓
then press the	Ext CID Override:	
	Restrict CID Override:	
-Once added, select that	Can Reinvite:	© Yes ◉ No ◎ N/A
number and assign a destination using that	Send Remote Party ID	© Yes ◎ No ◎ N/A
drop-down.	Trust Remote Party ID:	© Yes ◎ No ⑧ N/A
Note: It is not necessary	Insecure:	Very 👻
Note: It is not necessary to define the destination of the prime number (lead number) as this will follow the Default Desti- nation OR Call Routing— Incoming destination if none is assigned here. 17. Don't forget to click Save Changes if not saved, all the infor- mation on this page must be entered again.	Allow Codecs: Phone Numbers This section contains phone numbers, (something of the section contains phone numbers, sectins phone numbers, section contains phon	Disabled Enabled G.723.1 G.711 (ulaw) G.726 G.711 (alaw) Speex GSM Down Add Delete imes called DIDs) associated with this provider. Remove Set
	Add Destination: No Save Changes	ne Set



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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.

2. The only item that we needed to change in this area of system programming was the RTP Timeout. (In Advanced)

We discovered that Windstream very efficiently suppresses silence and hence the IPitomy PBX may conclude that the connection has gone idle. If this happens the PBX disconnects the call.

Windstream has requested that this timer be set to 1800s to match their Safeguard parameter which periodically (30minutes) checks for an active connection. If an active call is not confirmed the connection session is ended.

3. Don't forget to click

Save Changes

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

P Setup System System Providers Destinations Call Routing PBX Setup eneral atabase obicemail prompts usic On Hold eature Codes Pattern Filterna Patterna Patter
System SIP Networking Settings Providers Local Networks & Subnet N Destinations Call Routing PBX Setup eneral atabase picemail p rompts usic On Hold eature Codes
Providers Destinations Call Routing PBX Setup eneral atabase picemail P rompts usic On Hold eature Codes Local Networks & Subnet N Local Networks & Subnet N Relax dtmf handling: A RTP Timeout:
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usic On Hold / RTP Timeout:
RTP Timeout on Hold:
Reporting
Truct Domoto Darty ID: V
External IP:



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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 something 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... Exact Length is set to "No".
- Refer to the IPitomy 1100+ Manual for details on routing dialed digits. 4.
- 5. Notice that the SIP Trunk is now available for selection in the drop-down list. (At the bottom)

	is , care outgoing route			Co2oge Appr	6.	We selected Windstream and
Edit Outgoing R	oute					Add
System	Edit Outbound Route					clicked
Providers	Route Name Windstre	am			-	
 Destinations 					1.	You must also click
 Call Routing 	Route Type Windstre	am 🔻				Save Changes
Incoming						other changes to this trunk
Class Of Service	Start Pattern	011X				can be applied to the routing
PBX Setup	Digits	4				characteristics.
 Reporting 	Exact Length	No 👻			8.	Notice that we placed this
	Subroute Digits 0			_	trunk at the top of the list for	
	Subroute Offset	0				it will be selected first for calls
						placed with this digit string.
	Trunks: Windstrea				(The trunks in "Houston" will be	
	Houston	Up		Strip Digits 0		selected second.)
		Dn		Prefix Digits	9.	Here again reference the IPi-
		Add	Houston -			tomy 1100+ Manual for defails
		- Delete	EBDemo ip400-130			on programming parameters.
	Disable Ext CID Override	CID Outride			10	10. When you're done, don't for-
	Force Use PSTN CID		4-Port LS Windstream			Save Changes
	Override Default CID(name)					
	Override CID Name	le CID Name				on this page must be entered
	Override Default CID(number))	no 👻			again.
	Override CID Number					
	Save Changes					
	save changes					



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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.

 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 System Default COS is shown. Notice that the newly created Outbound Route "Windstream" is listed here.

3. Click Add Call Routing / Class Of Class Of Service	to add this route to this	cos. <mark>Note</mark> This p	<mark>::</mark> bage do	es not have a Save Changes button.
System Providers Destinations	Class of Service: System	Default -		Procedure—Finalize
Call Routing	System Default	Rename		1. When all changes are complete you Apply Changes
Outgoing Class Of Service	Route	Action	۲	MUST click to make the changes operational in the PBX.
▶ PBX Setup	7 Digit Local Dialing	\otimes		Drooduro Toot the Trunks
Reporting	1+ Dialing (11 Digits)	\otimes		Procedure—rest the Trunks
	International Emergency 10 Digit Dialing		 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 in- put into Call Routing—Outgoing. 	
	test 400 Outbound Routes Windstream	8		2. This call should be connected using the SIP Provider you have just in-stalled.
	Custom Routes			Congratulations! Your Windstream Trunks are now functional!