



IPPBX User Manual

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Chapter1 Brief Introduction

1.1 Appearance & Model

This article is the user manual for SPOTEL IPPBX08 product. It also includes the application notes for how to use SPOTEL ippbx to build a telephony system for small office.

IPPBX08 Appearance & Model



Model	IPPBX08-08	IPPBX08-26	IPPBX0844	IPPBX08-62	IPPBX08-80
FXS	8	6	4	2	0
FXO	0	2	4	6	8

1.2 System Features

SPOTEL's series of IPPBX is an embedded ippbx based on standard asterisk for Home & SMEs, which is not only a PBX, but also as a voice mail Server, IVR server, conferencing server. With 4 or 8 analog interface which can be configured as FXS or FXO ports (made in factory), and 1 Wan and 1Lan with router function. With excellent echo cancellation function, it can meet most of the customers' requirement.

- Based on Asterisk
- Configuration by Web
- Built-in SIP/IAX Server
- Static/DHCP/PPPoE network access
- Codec: G.711-Ulaw, G.711-Alaw, G.726, G.729, GSM, SPEEX
- SIP/IAX Trunk(use with VoIP Trunk operator)
- Zap Trunk(Use with PSTN)
- SIP/IAX Extensions(connect with IP Phone)
- Zap Extensions(connect with Analog Phone)
- Voice Mail Server
- Flexible Dial Plan
- Remote backup / restore (through web browser from anywhere)
- RingGroup (both internal extensions & External numbers)
- Call Park
- Call Queue
- DISA (Direct Inward System Access) allow to use internal lines from outside
- Call Conference
- IVR Server
- FollowMe call forwarding
- IVR Name Directory
- Music On Hold
- BLF (Busy Line Field) to show who are on calls in other phones [your ip phone has to support this feature to work]
- Call Logs
- Support IP Phone with Key function
- FAX T.38
- Other basic function:
 - 1. Three way calling
 - 2.Call Forward (on Busy or on Unanswered Call or on Unregistered Extension)
 - 3.Call Hold
 - 4.Call Transfer
 - 5.Call Waiting
 - 6.Caller ID

1.3 Interface & Panel

1) Interface



- 8 * Analog Ports can be FXO or FXS (RJ11)
- 1 * SD MMC Interface
- 2 * Network Interface (RJ45)
- 1 * Power port (DC 12V 2A)
- 1 * Reboot Button
- 2) Indication Panel

8 7 6 5 4 3 2 1 USB MMC LAN WAN SYS PWR

Mark	Function	Status	Description	
	Dower Status	On	Power On	
PVK	Power Status	Off	Power Off	
eve	System Status	On	System working	
515	System Status	Off	System Failed	
	WAN interface Status	Wink	Data exchanging	
VVAN	WAN Interface Status	Off	No Data exchanging	
LAN	LAN Interface Status	Wink	Data exchanging	
		Off	No Data exchanging	
	SD cord Status	On	MMC connect successfully	
IVIIVIC	SD card Status	Off	MMC connect failed	
	Ontional			
036	Optional			
1-8		Red	FXO channel	
	Analog Modules Status	Green	FXS channel	
		Off	Failed	

3) Hardware

- 32bit embedded RISC DSP
- 2G MMC/SD Storage
- 4) environmental requirements:
 - temperature: -10 °C -45 °C
 - Storage temperature: -30 °C -65 °C
 - humidity: 10-80% no dew
 - Power: AC 100~240V

- 5) Packing List
 - IPPBX 1 Unit
 - Power Adapter 1 Unit

1.4 Default configuration

- 1. Wan port IP address: http://192.168.1.100:9999
- 2. Lan port IP address: http://192.168.10.100:9999
- 3. Web GUI username: admin
- 4. Web GUI password: admin

Chapter2 Basic Configuration

2.1. Log on to the system

After connecting the IP PBX to the local area network. Launch the web browser on a computer which is in this local area network. Enter the IP address for the system (Wan port IP address http://192.168.1.100:9999, Lan port IP address http://192.168.10.100: 9999). The start web page will appear like this:

Please login	Login Username: Password: Login Logout

Enter Username and password (default username is admin, password is admin), then click "login". Once the login is successful, the home page will be display:

Noted: you have to add a network segment same with the Wan ports if your PC is not at 192.168.1.***.

SpoTol TM by Nicherons Nicherons Canada Home Basic Inbound Control Advanced Status System	Connected!
	Reboot Factory Defaults

With the SpoTel GUI, you can configure extensions, conference, voicemail, Dial Plan and etc. Each page of the GUI has three columns:

The left column present all the options tab that you can program the system. Click the tab to go to setting page of different options.

The middle column contains the primary content for each page.

The right column of the user interface contains Tooltips. This area provides brief description for any options of the GUI

The home page is used for logout, Reboot and Factory Defaults.

- Logout: To log out the SpoTel GUI.
- Reboot: Reboot the IP PBX system
- Factory Defaults: Restore all settings to factory default.
- Activate change: Made the change active for the current configuration after you make a configuration on some page.

2.2. Configure Extensions

Click the Extension tab and you will see the extensions setting, your created users are in this page. There are 30 users in your extensions list as default setting, you can add new extensions or remove the existing extensions.

	E	xtension Configuration 🔅
Home	Extensions:	Extensions Setting
Basic	801 802 User2 803 User3	Extension: 808 Name: User8
Trunks	804 User4 805 User5 806 User6	Password: 808 Caller ID: 808
Outbound Routes	807 User7 808 User8 809 User9 810 User10 811 User11 812 User12	E-mail: Analog Phone: No Analog lines detected. Dial Plan: DialPlan1 •
Status System	813 User13 814 User14 815 User15 816 User16 817 User17 818 User17 819 User19 820 User20 821 User21 822 User22 823 User23 824 User24	Advance Options ✓ Voicemail Can Reinvite ✓ SIP IAX ✓ Call Waiting ✓ 3-Way Calling NAT Pickup Group Is Agent DTMFMode RFC2833 _

Extensions Setting include:

- Extension The extension is assigned to the defined user.
- Name The full name of the individual assigned to this extension.
- Password The password is used to Extension registered
- VM Password
 The password is used to access voicemail for the specified
 Extension
- E-mail Set the user's E-mail
- Caller ID Identifies the Caller ID presented when the listed extension dials out
- Analog Phone A drop-down menu is available to identify the analog phone port which this extension will access.
- Dial Plan You can choice dial plan based on the extensions' need, this option references the Dial Rules option on the left tool bar.

There are also several advanced extension options available. The advanced options establish the connections from the listed extension to other systems within the IPPBX system server. These advanced options include the following:

- Voicemail The extension support voicemail
- SIP The extension support SIP protocol
- IAX The extension support IAX protocol
- Call Waiting The extension support Call Waiting function
- 3-Way Calling The extension support 3-Way Calling functions
- Codecs Click here, you can set the extension's codec (default support: alaw, ulaw and G.729).

2.3. Trunk

If you want to make external call, you must register with a Trunk in order to connect to the Public Switched Telephone Network (PSTN) or other VoIP service provider. Through the web page you can add a trunk.

There are three Trunk categories: Analog Trunk, VoIP Providers, Custom VoIP Trunk.

	Add Trunk	Х
Provider Type: Analog Trunk Custom Trunk	Add Trunk Lines: Analog Port #1 Analog Port #2 Analog Port #3 Analog Port #4	X
	Save Cancel	

- Analog Trunk Select the Analog radio button to define the analog ports you have access to as a service provider. This will give you the ability to place calls through the IP PBX utilizing analog lines. The analog ports available will be displayed when you select this option. Choose one or more analog ports by selecting their associated checkbox. You will not be able to create an analog service provider if you do not have any analog ports available.
 Custom Trunk The Custom VoIP option allows you to create a custom VoIP
- Custom Trunk The Custom VoIP option allows you to create a custom VoIP definition. To create the custom VoIP provider definition you will need to complete the following:

Comment:	Nicherons
Protocol:	IAX 💌
Register:	\checkmark
Host:	192.168.1.101
🗏 Withou	t Authentication
Username:	1111
Password:	••••

- Comment The comment field should be used as the name of the custom VoIP definition
- Protocol Specify either a IAX or SIP protocol
- Register Enable/Disable server register. Registering is not required for all providers
- Host The IP address of your service provider
- Username The user name associated with your provider account
- Password The password associated with your provider account
- Without Authentication if you connect to Voip server without Authentication, pls selected
- Once you have added a VoIP Trunk it will appear on the list of Trunk on the Trunk page. There is an Options drop-down list associated with each Trunk listing. The Options drop-down list allows you to edit or delete the Trunk definition, as well as further refine the definition by choosing several advance options. Select either Codecs or Advanced to further refine the definition.
- Codecs Codecs provide the ability for your voice to be converted to a digital signal and transmitted across the internet.
- Advanced The following advanced options are available to further refine your trunk.

Advanced	l Settings X
trunkname:	trunk_2
insecure:	very
port:	5060
caller ID:	
fromdomain:	192.168.1.11
fromuser:	test
contact:	
qualify:	7es
update	Cancel

• Trunkname Specify a trunk name if you want to refer to the service provider definition as something other than specified in Comment

- Insecure This option specifies how connects to a service provider (host) should be handled. Valid options are very/yes/no/invite/port. (Default is "very")
- Port The register request is sent through the port. (Default is SIP:5060,IAX:4569)
- Caller ID The caller ID will be set to the value specified in this field
- Fromdomain Sets default from: domain in SIP messages when acting as a SIP client.
- Fromuser Sets default from: user in SIP messages when acting as a SIP client
- Contact Specifies a primary extension for call routing

2.4. Outbound Routers

The Dial Rules tab on the left toolbar allows you to use basic pattern matching to differentiate outbound calls and route them accordingly (create different DialPlan).

• Spotel by • Nicherons Canada						
			Dial Rules 🚸			Activate Changes Logout
Home	Lis	t of DialPlans:				Dialing Rules: Ex: If the number begins with '256' and followed by 7 digits or more
Basic			DialPlan1 - New Delete			and followed by 7 digits of more
Extensions						
et Trunks	List	t of Dial Rules:	Add a Dial Rule			
	S.No	RuleName	Dial Pattern	Call Using	Options	
Outbound Routes	1	Call_PSTN	Begins with 9 and followed by more than 3 digits	Custom - Nicherons	Edit Delete	
Inbound Control						
Advanced						
Status						
System						
		Spo	Tel® is a registered trademark of Nicherons In	t'l Inc, Canada. All	Rights Reserved	

Click on Add a Dial Rule to define a new DialPlan. The following dialog will be displayed.

X	
Rule Name:	
Place this call through :	
Analog fallback : None 🛛 🗧	
Dialing Rules : If the number begins with and followed by (more than) digits (define a custom pattern)	
Delete O digits from the front and auto-add digit before dialing	

A DialPlan is comprised of the following items:

- Rule Name Set a rule name
- Place this call through Select a Trunk through which the call should be made
- Analog fallback Select a Analog fallback
- Dialing Rules The Dialing Rule gives you the ability to use basic pattern matching to differentiate calls and route them accordingly. For instance, if a number begins with 9256 followed by 7 or more digits, that would define a call within the state of Alabama. If a call began with 9 followed by 7 digits, it would be a local call that probably didn't require a long distance charge. Instead of adding a rule for every extension or phone number you call, specify the pattern in this rule similar to the example.
- Define a custom pattern Set a custom pattern by yourself.



- **N** Any digit from 2 to 9
- **Z** Any digit from 1 to 9
- X Any digit from 0 to 9
- . Any number of additional digits

Example: "_9ZNXXX." mean first number is 9, second number is any digit from 1 to 9, third number is any digit from 2 to 9 and each "X" is any digit from 0 to 9. The "." is more.

• Strip This option gives you the opportunity to remove specified digits from the call being dialed and replace them with the digits needed to make the call. You can also prepend digits to the beginning.

2.5.Inbound Routers

SpoTel [™] by Nicherons Canada					
Home		Incoming Calls 💠			Activate Changes Logout Dialing Rules: Ex: If the number begins with '256'
		List of Incoming Call Rules			and followed by 7 digits or more
Basic	S.No	Incoming Rule	0	ptions	
Inbound Control	1	Route all unmatched incoming calls from provider 'Ports 1,2,3,4,5,6,7,8' to 'TimeRule Time Based Rule'	Edit	Delete	
Pinbound Routes					
Star IVR					
IVR Prompts					
Ring Groups					
Advanced					
Status					
System					
		Add an Incoming Rule			
		SpoTel® is a registered trademark of Nicherons Int'l Inc	, Canada. Al	I Rights Reser	ved.

The same pattern-matching logic used for processing outbound calls can also be employed for inbound calls. The two defaults define routing based on whether an incoming call matches or doesn't match a pattern you define.

	X
ROUTE All Unmatched incoming calls -	
from provider	
to extension 💽 👻	
Save Cancel	

There are only a few options you need to configure

- Route Make a selection from the drop-down list to choose how the calls will be routed. You can select from All Unmatched Calls or Calls which Match
- From Provider Select from the list of providers which you previously configuration
 - To Extension The previously configuration extension which should receive the call.

2.6.IVR (Interactive Voice Response)

Through the web page, you can create Interactive Voice Response (IVR). IVR are designed to allow for more efficient routing of calls from incoming callers.

SpoTel™ by Nicherons Canada			Anti-oto Channes Languid
Home Basic Inbound Control Inbound Routes Inbound Inbound Inbound Inbound I	IVR Menu: IVR - working time IVR - closed time IVR - closed time	IVR Setting Name: working time Resource Extension: Welcome Massage Please Select [welcome I blad other Extensions? Key Action 0 Goto Extension ▼ 1 Disabled ▼ 2 Disabled ▼ 3 Disabled ▼ 4 Disabled ▼ 5 Disabled ▼ 6 Disabled ▼ 7 Disabled ▼	Activate Changes Logout Dialing Rules: Ex: If the number begins with 256' and followed by 7 digits or more
	SaaTal® is a	registered tradework of Nieberges Jettilies, Canada, All Biphis Researed	

Voice menus are constructed depending on your needs. Just like your business you need to create the solution best suited to your customers.

- Name Set a IVR name
- Extension Set a IVR connect number
- Welcome Massage Select a welcome massage voice from record
- Dial other Extensions Enable/Disable allow dial other extensions.

2.7. Record

In the event that one wants to record custom menu prompts for the IP PBX, which can be used in a IVR, the Record may be used.

● SpoTel [™] by ● Nicherons Canada						
0 00000		Record Void	es For Custom IVR	φ		Activate Changes Logout
Home		List o	Dialing Rules: Ex: If the number begins with '256'			
Basic	S.No Name Optic			ions		and followed by 7 digits of more
Inhound Control	1	closed.gsm	Record Again	Play	Delete	
	2	welcome.gsm	Record Again	Play	Delete	
Inbound Routes						
🟂 IVR						
IVR Prompts						
Ring Groups						
Advanced						
Status						
System						
Record a new voice						
		Contral in a maintenan	dan dama da af bilabanan la ili i	Constant	All Dishts Da	
Spoleie is a registered trademark of Nicherons Intilinc, Canada. All Rights Reserved.						

A list of previously recorded menus is displayed. Here, the user may modify several options

- Record Again Clicking this button allows the user to make another attempt at recording and replacing an existing custom sound file
- Play
 Clicking this button brings up a dialog entry box to allow the input of an extension that System will dial and play the prompt over
 Delete
 - Delete Clicking this button will delete the selected prompt

There are two options under "Record a new voice"

Record a new Voice >	ĸ
File Name: Extension used for recording:	
Record Cancel	

- File Name This text entry box specifies the saved name of the file that is to be recorded.
- Extension Used for Recording This drop-down select box allows the user to choose which extension will dial to wait for the user to speak the prompt

Chapter3 Advanced Configuration

3.1. Voicemail & System Voice Language

Voicemail is an option available for every extension in the IP PBX system. The relationship between the extension and the voice mail is established in the User Extension section of the GUI. You can configure the voicemail through this page.

Canada	Voicemail Configuration 🚸	Activate Changes Logout
Basic	General SMTP Setting Email Setting	Asterisk not to play introductions about each message when accessing them from the voicemail
Inbound Control	VoiceMail Reference	application.
Advanced	Extension for checking messages: 600 Max greeting (seconds) 60	
둱 Operator	Attach recordings to e-mail:	
Voicemail	Dial '0' for Operator:	
onferencing	Voice Massage Options	
Music on hold	Message Format: WAV (16-bit)	
🥰 Call Parking	Maximum messages : 100 -	
A DISA	Max message time: 5 minutes -	
Sollow Me	Min message time: No minimum 💌	
Time Based Rules	Playback Options	
Status	Say message Caller-ID	
System	Say message duration	
	Allow users to review	
	Save Cancel	

Standard configuration information is also present, allowing you to confirm the extension used to check messages as well as general parameters such as the following:

- Extension for Checking Messages This option defines the extension which Users
- Max greeting(Seconds) V
- Attach recordings to e-mail

amount of time available to record your voicemail greeting.

- Enable/Disable send recording file to you email by attachment
- Dial "0" for OperatorCallers who are sent to voice mail can press "0"
for the operator and be transferred either during
the voice mail salutation, or after recording the
message. If this option is not enabled, a caller's
pressing "0" will be ignored.

There are several options that can be specified to define the voicemail message in the system.

- Message Format This option gives you the ability to choose the format in which messages will be mailed.
- Maximum Messages The maximum number of messages per voice mail box is set here.
- Maximum Message Time The maximum duration of a message left by a caller is set

here

• Minimum Message Time The minimum duration of a message is dictated here. There are several playback options that can be specified.

- Say Message Caller-ID The Say Message Caller ID option reads the caller ID before the voice mail message is played
- Say Message Duration
- Play Envelop
- Allow Users to Review

lasted. The envelope provides the date, time, and caller ID related to a voice mail. This option provides incoming callers the option to review

This option identifies exactly how long the message

their message before it is saved and can be played back by the owner of the voice mail extension. Standard options are presented to you, allowing you to discard the message or re-record it if you aren't happy with it.

Voicemail to email set:

SMT	Ρ	setting
-----	---	---------

SpoTel [™] by Nicherons Canada	Voicemail Configuration 🌵	
Basic	SMTD Sattings:	
Inbound Control	Smin Smin	
Advanced	server : mail.nicherons.com	
Operator	Port : 25	
Voicemail	Enable ssmtp Authentication	
Conferencing	Username	
Music on hold	: sales@nicherons.com Password	
Call Parking	: •••••	
à DISA	save cancel	
Sollow Me		
Time Based Rules		
Status		
System		
	SpoTel® is a registered trademark of Nicherons Int'I Inc, Canada. All Rights Reserved.	
 Smtp server 	The IP address or hostname of an SMTP server that your IP PBX	
	may connect to, in order to send e-mail notifications of your	
	voicemail; eg:mail.yourcompany.com	
Port	The port number on which the SMTP server is running; generally	

• Enable SMTP Authentication if your SSMTP server needs Authentication, please

port 25.

enable SSMTP Authentication set, and configure the follow information

- Username input username of your email.
- Password input password of your email.

Email setting

SpoTel™ by Nicherons Canada		Voicemail Configuration
Home Basic		General SMTP Setting Email Setting
Inbound Control		Template for Voicemail Emails
Advanced	Sender Name	IPPBX Server
Coperator	From	asterisk
Voicemail	Subject	you've a voicemail from \${VM_CALLERID}
Conferencing	Message	<pre>Dear \${VM_NAME}, you have a new voicemail from \${VM_CALLERID}, the message time is \${VM_DUR}.</pre>
Music on hold		
Call Parking		
à DISA		
🝰 Follow Me		Sava Cancel
Jime Based Rules		CARC CARCO
Status	Template V	ariables: \t : TAB
Svetom		\${VM_DUR} : The duration of the voicemail message
System		\${VM_MAILBOX} : The recipient's extension
		\$(VM_CALLERID) : The caller id of the person who left the message
		{VM_MSGNUM} : The message number in your mailbox
		{VM_DATE} : The date and time the message was left
		SpoTel® is a registered trademark of Nicherons Int'l Inc, Canada. All Rights Reserved.
• From	Set the from email	
• Sender Name	e Set the name for sender	
 Subject 	Set the email title	

• Massage Input the matter in your email.

System Voice Language

In System -> Management, the system voice could be selected from the default English, French, Spanish, or Chinese.

Management				
Enter New Password:				
Set Voice Language: Spanish -				
Save				

3.2. Conferencing

Every company reaches the point of needing more people on a call than it can effectively include through three-way calling. conference bridges allow you to include more people as well as project a professional image.

SpoTel TM by Nicherons Canada		
La Harra	Conference	e Room Configuration 🔅
Basic Inbound Control Advanced	Conference Room 600 Check Voicemail 900 Conference Room	Conference Number Room Extension: 900 Room Override: Conference Password
Voicemail		PIN Code: 1234 Admin PIN Code: 2345
Music on hold Call Parking DISA		Conference Options Play hold music for first caller Enable caller menu Announce callers Record conference Quiet Mode
Time Based Rules Status System		Wait for marked user Set marked user
	New Delete SpoTel® is a regist	Save Cancel

The configuration of the conference room and standard features is very straightforward. The conference room use default extension 900, but you can always change it to any extension number you want. After establishing the extension for the room, you need to specify the password settings for the conference. Assign the PIN Code used by participants to enter the conference as well as the Administrator PIN Code used by the moderator of the conference to open the conference room.

A conference "Leader" could be set. The conference will not commence until the "Leader" dials in. Before the "leader" calls in, all participants will hear Music-on-Hold. An example is illustrated as the below:

- The default conference bridge is 900

- Check the "Wait for marked user"

Conference Room	Conference Number
600 Check Voicemail	Room Extension: 900
802900 Conference Room 842902 Conference Room	Room Override:
900 Conference Room	
902 Conference Room	Conference Password
	PIN Code: 1234
	Admin PIN Code: 2345
	Conference Options
	Play hold music for first caller
	Enable caller menu
	Announce callers
	Record conference
	Quiet Mode
	Wait for marked user
	Set marked user
New Delete	Save Cancel

Conference Room	Conference Number
600 Check Voicemail	Room Extension: 802900
802900 Conference Room 842902 Conference Room	Room Override: 900
900 Conference Room	
902 Conference Room	Conference Password
	PIN Code:
	Admin PIN Code:
	Conference Options
	Play hold music for first caller
	Enable caller menu
	Announce callers
	Record conference
	Quiet Mode
	Wait for marked user
	Set marked user

Conference Room Configuration 🔅

Now, all the participants will join the bridge "900" with the Pin code "1234", while he conference leader will join the conference "802900" with the admin pin code "2345" Note: the leader number "802900" should be only known to the conference leader only In a similar manner, we could set up another set of conference bridge 902 & the associate arbitrary Leader number (such as 842902).

3.3. Music On Hold

SpoTel TM by Nicherons Canada	Music on Hold Classes 🚸
Basic	Music On Hold Reference
	Music: music1 💌
Inbound Control	Sava Cappel NOU Palaad
Advanced	Save Calicer Mon Heload
🙀 Operator	Upload Music File
Voicemail	Enter The Music File Name: (*.gsm)
	TFTP Server IP address:
Music on hold	Select Music directory: music1 -
Call Parking	Update
A DISA	
Sollow Me	
Jime Based Rules	
Status	
System	
	SpoTel® is a registered trademark of Nicherons Int'I Inc, Canada. All Rights Reserved.
List of Music On Hold	Display Music On Hold class list
Class	Set Music On Hold class name
Music	Select music. (you can replace music file through the
	update page.)
Enter The Music File Nam	e Set you want upgrade music file name
• TFTP Server IP address	Set the TFTP server IP

• Select Music directory Select directory that you want saved music file.

3.4. Call Parking & Call Queue

Call Park



Pickup Extension: Set The second call tim

Timeout for answer on attended transfer: Set the answer timeout value.

Call Queue

- Tick the "Is Agent" in the extensions setting
- Set an "Agent Call back Extension" in Advanced->Options
- Set a Call Queue number in Advance-> Call Queue

Extens	sion Configuration 🧅
Extensions:	Extensions Setting
801 802 User2 803 User3 804 User4 805 User5 806 User6 807 User7 808 User8 809 User9	Extension: 803 Name: User3 Password: 803 Caller ID: 803 VM Password: 803 E-mail: ng.bernie@gmail.com
810 User10 811 User11 812 User12 813 User13	Analog Phone: No Analog lines detected. Dial Plan: DialPlan1
814 User14	Advance Options
815 User15 816 User16 817 User17 818 User18 819 User19	 ✓ Voicemail ☐ Can Reinvite ☑ SIP ☐ IAX ☑ Call Waiting ☑ 3-Way Calling ☑ NAT
820 User20	NAI Pickup Group -
822 User22	S Agent DTMFMode RFC2833 -
823 User23 824 User24 825 User25	Codecs Configure disallow: all allow:alaw,ulaw,g729
SpoTel ^{Tw} by Nicherons Canada	Admin Settings
Basic	Local Extension Settings
Inbound Control Advanced	Clobal Ring Time Set:
Ontions	Allow analog phones to be assigned to multiple extensions
Voicemail	Allow extensions to be AlphaNumeric (SIP/IAX users)
Conferencing	Agent Login Settings
Call Queues	Agent Login Extension : Agent Callback Login Extension : 666
Call Parking	Default Settings for a New User
DISA	Voicemail CTI SIP
Sollow Me	Call Waiting S-Way Calling
Time Based Rules	1234 VoiceMail Password
Status	Save Cancel
System	

SpoTel™ by Nicherons Canada						
		Queue Extens	sion Cor	nfiguration	1 Ø	
Home	List of Queues:		Call Qu	eue Referer	nce	
Basic	555 Queue 'Sale	es Queue' (Queue:	555		
Inbound Control		F	Full Name:	Sales Queue		
Advanced		s	Strategy :	roundrobin	-	
💦 Options		,	ngenta.	✓ User3 (803)	3)	
Voicemail						
onferencing		1	Queue	Options		
all Queues				TimeOut:		
Music on hold				Wrapup Tin Max Len:	ne:	
Call Parking				Music On H	iold: default 💌	
DISA				🗹 Auto	Fill:	
C Follow Me				🗆 Auto	Pause:	
Time Based Bulas				M Joint	Empty:	
				📃 Leav	eWhenEmpty:	
Status				M Repo	ort Hold Time:	
System			Note: Eac	h agent needs login extension	to log on to the queue usin n defined in Options.	g the
	New	Delete		Save	Cancel	

In the IVR or Ring group, the call could be routed to the Call Queue (555 in our example) when the call is unanswered.

Agent logon:

- Agent will have to logon before the system will assigned the call from the Queue.
- Agent dials the Agent Callbcack Login Number (666 in our example)

3.5. Ring Groups

You can configure Ring Groups through the web page

Homo	R	ing Groups	в Ф	
	Add Ring Group			,
Basic	Nama:	5	trategy: Bing all	
Inbound Control	Name.		trategy. King an	121
		+	IAX2/801	
Inbound Routes			SIP/802 User2 SIP/803 User3	
		_	SIP/804 User4	
		>>>	SIP/805 User5	
IVR Prompts			SIP/806 User6	
Ding Cround			SIP/807 User7 SIP/808 User8	•
S King Groups			Sir/608 Oser6	•
Advanced	Ring Group Members		Available Channels	5
Statue	Extension for thi	s ring group(Option) :	
Jialus	Ring (each/all) f	or these man	y seconds : 20	
System	If not answered			
	Goto an Extension			
	Goto a RingGroup			
	O Goto an IVR menu			
	• HangUp			
		Save Can	cel	

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Define Ring Groups to Dial more than one extension

- Name Set a Ring Group name
- Strategy There is a drop-down list, you can choose Ring all or Ring in order.
- Ring Group Members Add Ring Group member from Available channels.

If the Ring Group no answered you can choose to

Goto Voicemail of this user, Goto an IVR menu, HangUp

3.6. Disa Settings

SpoTel [™] by Nicherons Canada		
	DISA Settings 💠	
Raeic	List of Disa	
Jahawad Cantral	S.No Disa Name	Options
Indound Control	1 Calling Card	Edit Delete
Advanced		
Solution Operator		
Voicemail		
onferencing		
Music on hold		
Call Parking		
à DISA		
Sollow Me		
Jime Based Rules		
Status		
System		
·		
	New Disc	
	SpoTel® is a registered trademark of Nichero	ns Int'l Inc, Canada. All Rights Reserved.
List of Disa Dis	a name are listed in the table.	
New Disa Cre	ate a new Disa.	
	Edit Disa	х
	DISA Name: test	
	PIN: 123456	
Re	sponse Timeout(s): 5	
	Digit Timeout(s): 3	
	extension for this Disa(Option): 300	
Allow Outbound Rout)	
	Select DialPlan DialPlan1 >>	
	Savo Cancol	
	Save Cancer	
DISA Name	Set a name for Disa	
PIN	Set a password for Disa	
Response Timeout(s) Set effective time for imputing a p	assword
Digit Timeout(s)	After you input the right password	, the interval between
digits that you need	dial.	

Extension for this Disa(Option) Set a number connect Disa Select DialPlan Select your DialPlan for calling out

3.7. Follow Me

SpoTel [™] by Nicherons Canada			
		Follow Me 🚸	
		List of Follow Me	
Basic	S.No Extensions	State Forward No.	Options
Inbound Control	1 802	BN 700	Edit Delete
Advanced			
Gerator			
Voicemail			
onferencing			
Music on hold			
🥰 Call Parking			
à DISA			
Sollow Me			
Time Based Rules			
Status			
System			
		New Follow Me	
	Sp	ooTel® is a registered trademark of Nicherons Int'l Inc, Car	nada. All Rights Reserved.
List of Forward	Call Forward	extensions are listed in the table.	

New Forward Create a new Call Forward

Extension	Select a need to call forward extension
State	Set state of the extension.(Disable, Always, Busy, No answer)
Select forward extension	Select a call forward to extension
When you select "Forward	a Outside Number" the follow page will be displayed.

Edit Follow Me
Extension: 802
Ring lasting for 30 seconds
Status: 📃 Always 🗹 Busy 🗹 No answer
Set your call forward number Forward a Local Extension: Forward a Outside Number:
Select forward extension 700
Save Cancel

Select DialPlanSelect a Call forward to outside number using dialing rulesSet forward outside numberInput a Call forward to outside number. (Notice: Thisnumber must be consistent with the corresponding DialPlan)

3.8. Time Based Rules

SpoTel™ by Nicherons Canada	Time Based Rules 💠
	Edit Time Rule X
Basic	Rule Name : TimeRule (Ex: July4)
Inbound Control	Time & Date Conditions
Advanced	Start Time: 09 • : 00 • End Time: 17 • : 30 •
Dperator	Start Day: Mon 🔽 End Day: Fri 🔽
Voicemail	Start Date: 01 - End Date: 31 -
Conferencing	Start Month: January - End Month: December -
	Destination
Music on hold	if time matches: VoiceMenu working time 🛫
Call Parking	if time did not match: VoiceMenu closed time
à DISA	Save Cancel
Sollow Me	
Jime Based Rules	
Status	
System	
	New Time Rule

On this page, Define call routing rules based on date and time

3.9. Operator

Admin Settings Advanced Inbound Control Advanced Operator Operator Ovicemail Conferencing Music on hold Call Parking Time Based Rules Status System System Local Extensions are Operator Extension Status System Set up the digit of local extensions Operator Extension (you can dial "0" extension at any time) Default Settings for a New User		
Admin Settings Basic Inbound Control Advanced Imbound Contrel Call ValoceMail	● SpoTel™ by ● Nicherons Canada	Admin Sottings
Advanced Local Extension Settings Inbound Control Advanced Advanced Allow analog phones to be assigned to multiple extensions Advanced Allow extensions to be AlphaNumeric (SIP/IAX users) Operator Voicemail Conferencing Voicemail Music on hold SIP Call Parking Itax Call Parking Itax Inbound Rules Status System Sove Cancel Set up the digit of local extensions Operator Extension Set up the Default Settings for a New User	Hama	Admin Settings
Basic Local Extensions are Varying V Inbound Control Operator Extension: User3 (803) V Advanced Allow analog phones to be assigned to multiple extensions Allow extensions to be AlphaNumeric (SIP/IAX users) Default Settings for a New User Voicemail CTI Music on hold Voicemail Call Parking Inax Call Parking 3.Way Calling Time Based Rules Save Status System System SpoTet® is a registered trademark of Nicherons Int'l Inc, Canada. A Local Extensions are Set up the digit of local extensions Operator Extension Set up the Default Settings for a New User Set up the Default Settings for a New User Extensions at any time) Default Settings for a New User Set up the Default Settings for a New User	Z	Local Extension Settings
Inbound Control Operator Extension : User3 (803) Advanced Allow analog phones to be assigned to multiple extensions Allow extensions to be AlphaNumeric (SIP/IAX users) Voicemail CTI Nusic on hold Voicemail Call Parking SIP Ime Based Rules Save Status System System Set up the digit of local extensions Set up the digit of local extensions Set up the Default Settings for a New User Call Settings for a New User Set up the Default Settings for a New User	Basic	Local Extensions are Varving
Advanced Allow analog phones to be assigned to multiple extensions Allow analog phones to be assigned to multiple extensions Allow extensions to be AlphaNumeric (SIP/IAX users) Voicemail Call voicemail CTI Music on hold SIP IAX Call Parking Call VoiceMail Password 3-Way Calling Italiance Call Waiting 3-Way Calling Ital Save Cancel Follow Me Save Cancel Ital Save Cancel System Save Cancel Local Extensions are Set up the digit of local extensions Operator Extension Set up Operator Extension. (you can dial "0" extension at any time) Default Settings for a New User Set up the Default Settings for a New User	Inbound Control	Operator Extension : User3 (803)
Operator Voicemail Conferencing Music on hold Call Parking Call Parking DISA Follow Me Time Based Rules Status System System System SpoTel® is a registered trademark of Nicherons Int'l Inc, Canada. A Local Extensions are Operator Extension Set up the digit of local extensions Set up Operator Extension. (you can dial "0" extension at any time) Default Settings for a New User Set up the Default Settings for a New User Set up the Default Settings for a New User Set up the Default Settings for a New User Set up the Default Settings for a New User Set up the Default Settings for a New User Set up the Default Settings for a New User Set up the Default Settings for a New User Set up the Default Settings for a New User	Advanced	Allow analog phones to be assigned to multiple extensions
Voicemail Conferencing Music on hold Call Parking Call Parking DISA Follow Me Time Based Rules Status System System SpoTel® is a registered trademark of Nicherons Int'l Inc, Canada. / Local Extensions are Operator Extension Operator Extension Set up the digit of local extensions Operator Extension Set up the digit of local extensions Set up Operator Extension. (you can dial "0" extension at any time) Default Settings for a New User	Operator	Allow extensions to be AlphaNumeric (SIP/IAX users)
Voicemail Default Settings for a New User Conferencing Voicemail CTI Music on hold SiP IAX Call Parking I234 VoiceMail Password DISA Save Cancel Follow Me Time Based Rules Save Cancel Status System Sove Cancel Local Extensions are Set up the digit of local extensions Set up Operator Extension. (you can dial "0" extension at any time) Default Settings for a New User Set up the Default Settings for a New User Set up the Default Settings for a New User	Constantion	
Conferencing ✓ Voicemail CTI Music on hold SIP IAX Call Parking ✓ Call Waiting ✓ 3-Way Calling I234 VoiceMail Password DISA Save Cancel Follow Me Time Based Rules Save Cancel Status System Save Cancel Local Extensions are Set up the digit of local extensions Operator Extension Set up Operator Extension. (you can dial "0" extension at any time) Default Settings for a New User Set up the Default Settings for a New User Set up the Default Settings for a New User	Voicemail	Default Settings for a New User
Music on hold SIP IAX Call Parking I234 VoiceMail Password DISA Save Cancel Follow Me Status System System Status System Local Extensions are Set up the digit of local extensions Operator Extension Set up Operator Extension. (you can dial "0" extension at any time) Default Settings for a New User Set up the Default Settings for a New User	K Conferencing	Voicemail 🗌 CTI
Call Waiting S-Way Calling Call Waiting S-Way Calling 23-Way	Music on hold	SIP 🗌 IAX
Call Parking 1234 VoiceMail Password DISA Save Cancel Follow Me Time Based Rules Status System System SpoTet® is a registered trademark of Nicherons Int'l Inc, Canada. A Local Extensions are Set up the digit of local extensions Operator Extension Set up Operator Extension. (you can dial "0" extension at any time) Default Settings for a New User Set up the Default Settings for a New User		Call Waiting S-Way Calling
Save Cancel Solow Me Time Based Rules Status System System SpoTel® is a registered trademark of Nicherons Int'l Inc, Canada. A Local Extensions are Set up the digit of local extensions Operator Extension Set up Operator Extension. (you can dial "0" extension at any time) Default Settings for a New User Set up the Default Settings for a New User	Call Parking	1234 VoiceMail Password
Follow Me Ime Based Rules Status System Local Extensions are Operator Extension Set up the digit of local extensions Operator Extension Set up Operator Extension. (you can dial "0" extension at any time) Default Settings for a New User Set up the Default Settings for a New User	BISA	Save Cancel
Time Based Rules Status System Local Extensions are Operator Extension Set up the digit of local extensions Operator Extension Set up Operator Extension. (you can dial "0" extension at any time) Default Settings for a New User	Rellow Me	
Status System System Local Extensions are Operator Extension Set up the digit of local extensions Operator Extension Set up Operator Extension. (you can dial "0" extension at any time) Default Settings for a New User Set up the Default Settings for a New User		
Status System SpoTel® is a registered trademark of Nicherons Int'l Inc, Canada. A Local Extensions are Set up the digit of local extensions Operator Extension Set up Operator Extension. (you can dial "0" extension at any time) Default Settings for a New User Set up the Default Settings for a New User	Ime Based Rules	
System SpoTel® is a registered trademark of Nicherons Int'l Inc, Canada. A Local Extensions are Set up the digit of local extensions Operator Extension Set up Operator Extension. (you can dial "0" extension at any time) Default Settings for a New User Set up the Default Settings for a New User	Status	
SpoTel® is a registered trademark of Nicherons Int'l Inc, Canada. A Local Extensions are Set up the digit of local extensions Operator Extension Set up Operator Extension. (you can dial "0" extension at any time) Default Settings for a New User Set up the Default Settings for a New User	System	
SpoTel® is a registered trademark of Nicherons Int'l Inc, Canada. A Local Extensions are Set up the digit of local extensions Operator Extension Set up Operator Extension. (you can dial "0" extension at any time) Default Settings for a New User Set up the Default Settings for a New User		
SpoTel® is a registered trademark of Nicherons Int'l Inc, Canada. / Local Extensions are Set up the digit of local extensions Operator Extension Set up Operator Extension. (you can dial "0" extension at any time) Default Settings for a New User Set up the Default Settings for a New User		
SpoTel® is a registered trademark of Nicherons Int'l Inc, Canada. / Local Extensions are Set up the digit of local extensions Operator Extension Set up Operator Extension. (you can dial "0" extension at any time) Default Settings for a New User Set up the Default Settings for a New User		
SpoTel® is a registered trademark of Nicherons Int'l Inc, Canada. / Local Extensions are Set up the digit of local extensions Operator Extension Set up Operator Extension. (you can dial "0" extension at any time) Default Settings for a New User Set up the Default Settings for a New User		
Local Extensions areSet up the digit of local extensionsOperator ExtensionSet up Operator Extension. (you can dial "0" extension at any time)Default Settings for a New UserSet up the Default Settings for a New User		SpoTel® is a registered trademark of Nicherons Int'l Inc, Canada. All
Operator Extension Set up Operator Extension. (you can dial "0" extension at any time) Default Settings for a New User Set up the Default Settings for a New User	Local Extensions are	Set up the digit of local extensions
extension at any time) Default Settings for a New User Set up the Default Settings for a New User	Operator Extension	Set up Operator Extension. (you can dial "0" g
Default Settings for a New User Set up the Default Settings for a New User		extension at any time)
	Default Settings for a New	User Set up the Default Settings for a New Use
create a new extension will use the con		create a new extension will use the config

Chapter4 Status Display

4.1. Call Logs

Call Logs Feb 10 2010 Call Logs Download Call Logs Delete Press Caller ID Destination Call Start Answered Call End Duration (sec) Disposition Basic Inbound Control s 2010-02-10 22:24:01 2010-02-10 22:24:08 7 ANSWERED Inbound Control s 2010-02-10 22:24:01 2010-02-10 13:51:33 2010-02-10 13:51:34 1 ANSWERED Advanced s 2010-02-10 13:51:33 2010-02-10 13:51:34 0 NO ANSWERED Status User2 <802> 900 2010-02-10 13:51:34 0 NO ANSWERED Status User3 <803> 901 2010-02-10 13:51:35 2010-02-10 13:51:31 0 NO ANSWERED System Info User3 <803> 2010-02-10 13:51:75 2010-02-10 13:50:57 2010-02-10 13:50:58 1 ANSWERED System s 2010-02-10 13:34:57 2010-02-10 13:34:59 2 ANSWERED User3 <803> 900 2010-02-10 13:34:57 2010-02-10 13:34:59 2 ANSWERED <	● SpoTel [™] by Nicherons Canada							
Advenced Caller ID Destination Call Start Answered Call End Duration (sec) Disposition Basic User3 <803> 901 2010-02-10 22:24:01 2010-02-10 22:24:08 7 ANSWERED Inbound Control s 2010-02-10 22:24:01 2010-02-10 35:133 1 ANSWERED Advanced User2 <802> 901 2010-02-10 13:51:33 2010-02-10 13:51:34 1 ANSWERED Advanced User2 <802> 900 2010-02-10 13:51:28 2010-02-10 13:51:31 3 ANSWERED Status User2 <802> 900 2010-02-10 13:51:28 2010-02-10 13:51:31 3 ANSWERED Call Logs s 2010-02-10 13:51:01 2010-02-10 13:51:05 2010-02-10 13:51:05 2010-02-10 13:51:05 0 NO ANSWER Verial Status User3 <803> 900 2010-02-10 13:34:57 2010-02-10 13:34:59 0 NO ANSWER Verial Status User3 <803> 900 2010-02-10 13:34:57 2010-02-10 13:34:59 0 NO ANSWER Verial Status s		Call	Logs 🌵	Fe	b 🕶 10 🕶 2010	✓ Go Call Log	s Download	Call Logs Delete
Basic User3 <803> 901 2010-02-10 22:24:01 2010-02-10 22:24:01 2010-02-10 22:24:08 7 ANSWERED Inbound Control s 2010-02-10 22:24:01 2010-02-10 22:24:08 0 NO ANSWER Advanced s 2010-02-10 3:51:33 2010-02-10 3:51:34 0 NO ANSWER Status User2 <802> 900 2010-02-10 3:51:32 2010-02-10 3:51:31 3 ANSWERED Status User3 <803> 901 2010-02-10 3:51:08 2010-02-10 3:51:06 5 ANSWERED Status User3 <803> 901 2010-02-10 3:51:01 2010-02-10 3:51:06 5 ANSWERED User3 <803> 900 2010-02-10 3:51:01 2010-02-10 3:51:06 5 ANSWERED User3 <803> 900 2010-02-10 3:50:57 2010-02-10 3:34:57 2010-02-10 3:34:59 0 NO ANSWER User2 <802> 900 2010-02-10 3:34:57 2010-02-10 3:34:59 0 NO ANSWER User2 <802> 900 2010-02-10 3:34:57 2010-02-10 3:34:40 2010-02-10 3:34:43 2010-02-10 3:34:43	Home	Caller ID	Destination	Call Start	Answered	Call End	Duration (sec)	Disposition
Basic s 2010-02-10 22:24:01 2010-02-10 22:24:08 0 NO ANSWER Inbound Control S 2010-02-10 13:51:33 2010-02-10 13:51:33 2010-02-10 13:51:34 1 ANSWERED Advanced User2 <802> 900 2010-02-10 13:51:32 2010-02-10 13:51:34 0 NO ANSWER Status User2 <802> 900 2010-02-10 13:51:28 2010-02-10 13:51:31 3 ANSWERED Status User3 <803> 901 2010-02-10 13:51:01 2010-02-10 13:51:05 ANSWERED Wer3 <803> 901 2010-02-10 13:51:01 2010-02-10 13:51:06 S ANSWERED User3 <803> 901 2010-02-10 13:51:07 2010-02-10 13:51:06 S NO ANSWER User3 <803> 900 2010-02-10 13:51:07 2010-02-10 13:51:56 1 ANSWERED System Info User2 <802> 900 2010-02-10 13:34:57 2010-02-10 13:34:59 0 NO ANSWER User2 <802> 900 2010-02-10 13:34:57 2010-02-10 13:34:41 1 ANSWERED System U	Pasie	User3 <803>	901	2010-02-10 22:24:01	2010-02-10 22:24:01	2010-02-10 22:24:08	7	ANSWERED
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Advanced s 2010-0210 13:51:33 2010-0210 13:51:31 0 NO ANSWER Status s 2010-0210 13:51:28 2010-0210 13:51:31 3 ANSWERED Status s 2010-0210 13:51:28 2010-0210 13:51:31 3 ANSWERED No Call Logs s 2010-0210 13:51:28 2010-0210 13:51:31 3 ANSWERED System Iser3 < 803> 901 2010-0210 13:51:28 2010-0210 13:51:36 5 ANSWERED User3 <803> 900 2010-0210 13:50:57 2010-0210 13:50:58 1 ANSWERED User2 <802> 900 2010-0210 13:34:57 2010-0210 13:34:59 0 NO ANSWER System Info User2 <802> 900 2010-0210 13:34:57 2010-0210 13:34:59 0 NO ANSWER System Info User2 <802> 900 2010-0210 13:34:42 2010-0210 13:34:41 1 ANSWERED System Info User2 <802> 900 2010-0210 13:34:42 2010-0210 13:34:32 2010-0210 13:34:32 2010-0210 13:34:32	Inbound Control	User2 <802>	901	2010-02-10 13:51:33	2010-02-10 13:51:33	2010-02-10 13:51:34	1	ANSWERED
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This web page will display call logs

Call Logs Download

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• Call Logs Delete

delete the call logs file

4.2. Register Status

SpoTel [™] by Nicherons Canada							
· · ·				Regis	ter Status 🔅		
A Home	SIP Users Status	IAX2 Users Status	SIP Trunks St	tatus	IAX2 Trunks Status		
Basic	SIP Users Status:						
	- 825	(Unsp	ecified)	D	0	Unmonitored	- 2
Inbound Control	824	(Unsp	ecified)	D	0	Unmonitored	
	823	(Unsp	ecified)	D	0	Unmonitored	
Advanced	822	(Unsp	ecified)	D	0	Unmonitored	
Statue	821	(Unsp	ecified)	D	0	Unmonitored	
JIAIUS	820	(Unsp	ecified)	D	0	Unmonitored	
Call Logs	819	(Unsp	ecified)	D	0	Unmonitored	1
	818	(Unsp	ecified)	D	0	Unmonitored	
Dogietor Statue	817	(Unsp	ecified)	D	0	Unmonitored	
Megister Status	816	(Unsp	ecified)	D	0	Unmonitored	
Suctom Info	815	(Unsp	ecified)	D	0	Unmonitored	
System mo	814	(Unsp	ecified)	D	0	Unmonitored	
luctom	813	(Unsp	ecified)	D	0	Unmonitored	
by stem	812	(Unsp	ecified)	D	0	Unmonitored	
	811	(Unsp	ecified)	D	0	Unmonitored	
	810	(Unsp	ecified)	D	0	Unmonitored	
	809	(Unsp	ecified)	D	0	Unmonitored	
	808	(Unsp	ecified)	D	0	Unmonitored	
	807	(Unsp	ecified)	D	0	Unmonitored	
	806	(Unsp	ecified)	D	0	Unmonitored	
	805	(Unsp	ecified)	D	0	Unmonitored	
	804	(Unsp	ecified)	D	0	Unmonitored	
	803/803	192.1	68.1.105	D	5060	Unmonitored	
	802/802	192.1	68.1.110	D	5060	Unmonitored	
	29 sip peers [Mo	onitored: 0 onlir	ne, 0 offli	ine Un	monitored: 2 c	online, 27 offi	ine
	<u> </u>				*****		•

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In this page, you can check SIP/IAX Users or Trunks Status.

4.3. System Info

SpoTel [™] by Nicherons Canada	Sustan Information 1
Home	General Resources
Basic Inbound Control	OS Version: Linux IP PBX 2.6.22.18
Advanced Status	Uptime: 08:49:52 up 19:00, Load Average: 0.00, 0.00, 0.00
Call Logs	Asterisk & GUI Build: Asterisk 1.4.4 SpoTel® v3.0.6
System Info System	Server Date & TimeZone: Thu, 11 Feb 2010 08:49:52 +0800 Synchronize
	Hostname: IPPBX

In this page it will display nonce system info

Chapter5 System Management

5.1. Network and Country; Time Settings

Network & Cou	untry Settings 🦚
WAN Port SETUP	
IP Assign: Hostname: IP address: Subnet mask: Gateway: DNS:	Static IPPBX 92.168.1.100 255.0.0.0 92.168.1.1 8.8.8.8
LAN Port Setup	
IP address:	192.168.10.100
Subnet mask:	255.255.255.0
Country setting	
Tone Zone: US - Ur	nited States
Save	Cancel

On this page you can set WAN, LAN interface information and country.

IP Assign: Tone Zone: you can select STATIC, DHCP and PPPoE three mode Set your Country, and use the Country Tone

System -> Time Settings

	NTP Settings 💠	
Tin	ne Settings	
	NTP Manual Time Set	
	NTP: pool.ntp.org	
	Time Zone: (GMT-05:00)Easterm Time(U.S.&Canada)	
NTP:	Set NTP server address.	

NTP:Set NTP server address.Time Zone:Set your Time ZoneManual:Set your PBX time & date manually

5.2. DDNS

I	DDNS 💠
Dyndns.org DDN	S
DDNS Enable: Username: Password: Domain:	
	Save

On this page, you can set DDNS reference.

Notice: Enter your account info from dyndns.org

5.3. Management

SpoTel TM by Nicherons Canada	Management
Home	
Basic	
Inbound Control	Enter New Password:
Advanced	Retype New Password:
Status	Apply
System	
Network&Country	(Show Advanced Options)
DDNS	
Aanagement	
🚰 Backup	
0 Update	
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On this page, you can change the administrator password (Default password: admin) And you can also set the advanced options about SIP and IAX2 protocol in the "Show Advanced Options" list, that is useful when you set connect two ippbx in different network.

5.4. Backup

SpoTel TM by Nicherons Canada	Back	up / Restore Configurat	ions 🐠	Activate Changes Lo
Home				Download: Download you selected the bac to your PC. (Note: Pls don't change the bac
Basic	Lis	t of Configuration Ba	ckups	name.)
Inbound Control	S.No Name	Date	Options	
Advanced	1 golden	Feb 07, 2010	Restore Delete	
Status				
System				
Network&Country				
DDNS				
Anagement 🍂				
🦰 Backup				
🔞 Update				
		Take a Backup		
	SpoTel® is	a registered trademark of Nicherons	Int'l Inc, Canada. All Rights Reserved	ł.

On this page, clicking the "Take a Backup" button, you can backup nonce configuration

5.5. Upgrade

	Upgrade Package
And the second s	Upgrade System Package
Basic	Enter The Package Name:
nbound Control	TFTP Server IP address:
Advanced	
Status	Update
System	Upload IVR Prompts
Network&Country	Enter The Sound File Name: (* asm)
DDNS	Note: Please use .gsm format voice file.
Anagement Anagement	TFTP Server IP address:
Backup	Upload
🚴 Update	
	Upload Backup File
	Enter The Backup File Name:
	Note: Don't change the backup file name.
	TFTP Server IP address:
	Upload

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In this page you can upgrade system package

- Enter The Package Name Set system package name
- TFTP Server IP address Set TFTP server IP

How to upgrade:

Please visit our website (<u>www.nicherons.com/download.html</u>) to find out the latest available firmware. The upgrade is automatically when entering the package name and our server info.

Run the TFTP server, you will see below:

Upgrade System Package			
Enter The Package Name:	spotel-v307		
TFTP Server IP address:	nicherons.dyndns.org		
	Update		

Enter the configuration page, then upgrading page;

Enter The Package Name, hereby it's spotel-pbx-v3.0.7 Enter TFTP Server IP address, hereby it's 192.168.1.132

After done, click Update to update, then the system will reboot automatically. (Note: the upgrading will set your system as default, please make backup before you do it.)

Chapter6 Operating Instruction

6.1 How to link the IP PBX to the interwork

With Router

If your office access the public network with router, you can put the IPPBX behind the router. You should connect the Wan port of the IPPBX to the Lan ports of the router, and you also can connect HUB or Switch to the Lan ports of the IPPBX to let some PC or IP Phone to access the public network.



Without Router

If you have the public IP and want the IPPBX access the public network directly without router, then you should connect the Wan port of the IPPBX to the public network and connect HUB or Switch to the Lan ports of the IPPBX to let your PC access the public network..(If you want to access the public network through Modem, then you should use the PPPOE function of the IPPBX and let the IPPBX dial-up to connect the public network)



6.2 Log in to the system

After connecting the ippbx to the local area network. Launch the web browser on a computer that is in this local area network. Enter the IP address for the system (default: Wan port IP address is http://192.168.1.100:9999, Lan port IP address is http://192.168. 10.100:9999). The start web page will appear like this:

Please login	Login Username: admin Password: ••••• Login Logout

Enter Username and password (default username is admin, password is admin), then click login. Once the login is successful, the home page will be display:

Home Basic Inbound Control		
Advanced	✓ Connected!	
Status	۲ ø	Login
System		Username:
		Password:
	ÓŬ	Login Logout
	Reboot	Factory Defaults

With the SpoTel GUI, you can configure extensions, conference, voicemail, Outbound Routers and etc. Each page of the GUI has three columns:

The left column present all the options tab that you can program the system. Click the

tab to go this kind of option setting page.

The middle column contains the primary content for each page.

The right column of the user interface contains Tooltips. This area provides brief description for any options of the GUI

The home page is used for logoff, Reboot and Factory Defaults.

- Logout: To log out the SpoTel GUI.
- Reboot: Reboot the IPPBX08 system
- Factory Defaults: Restore all settings to factory default.
- Activate change: Made the change active for the current configuration after you make a configuration change on some page.

6.3 How to make a internal call

Making internal calls are the base requirement for a telephony system. Below are the settings for this usage.



Set User

Users:

Aome Home	Extensions:	Extensions Setting	In Directory: Check this option if the user is to be
Basic Extensions Cutbound Routes Inbound Control Advanced Status System	BOT 801 802 User2 803 User3 804 User4 805 User5 806 User6 807 User7 808 User6 807 User7 808 User6 807 User7 808 User6 807 User10 811 User11 812 User12 813 User13 814 User14 815 User15 816 User16 817 User17 818 User18 819 User20 821 User21 823 User22 823 User24 825 User25	Extensions Setting Extension: Name: Password: Caller ID: VM Password: Mail Box: E-mail: Analog Phone: No Analog lines detected. Dial Plan: Dial Plan: Voicemail Call Waiting 3-Way Calling NAT Pickup Group Trfc2833 DTMFMode	listed in the telephone directory.

There are 30 default users, the extensions number are 801~830. You could add more if needed.

Set user, Extension is 803

Name, Password and Caller ID, etc.....

Select Dial Plan is DialPlan1

Set Extension 804 as the same way

Use a IP Phone based SIP protocol registered with the user.

Then you can use 803 call 804 successfully.

6.4 How to make a outbound call

To make an outbound call, we need to add a trunk first. There are two types of Trunk: Analog Ports: FXO ports of IPPBX08, connect to local PSTN VoIP Trunk: SIP or IAX trunk, connect to remote SIP/IAX server I am using IPPBX08, the port1-4 are configured as FXO ports, port5-8 are configured as FXS ports. When a port is configured as FXO port, the corresponding LED shows RED. When a port is configured as FXS port, the corresponding LED shows GREEN.

What are FXO and FXS?

FXS (Foreign eXchange Station) is an interface which drives a telephone or FAX machine. FXS interfaces get phones plugged into them, delivery battery, and provide ringing. FXS interfaces are signalled with FXO signalling. **FXO** (Foreign eXchange Office) is an interface that connects to a phone line. They supply your PBX with access to the public telephone network. FXO interfaces use FXS signalling. FXS interfaces allow you to hook telephones to your PBX, and FXO interfaces allow you to connect your PBX to real analog phone lines.

Make call via PSTN trunk

You can use the FXO trunking to make outgoing call via your local PSTN line. The set up is as per below:



Add Analog Trunk

Trunks -> Add a Trunk:

SpoTel TM by Nicherons Canada		Tru	nk 🌣	
Basic Extensions Trunks Outbound Routes Inbound Control Advanced Status System	Provider Type: Analog Trunk Custom Trunk	Add Lines:	Trunk Analog Port #1 Analog Port #2 Analog Port #3 Analog Port #4 Analog Port #5 Analog Port #5 Analog Port #6 Save Cancel	X

Add Outbound Routers

In Outbound Routers -> add a Dial rule as below Dial Rules

SpoTel™ by Nicherons Canada	Dial Rules 🔹
Home	List of DialPlans:
Basic	DialPlan1 - New Delete
Extensions	
煮 Trunks	List of Dial Rules: Add a Dial Rule
Outbound Routes	S.No. RuleName Dial Pattern Call Using Ontions
Inbound Control	Rule Name: Nicherons_Outcall
Advanced	Place this call through : Ports 1,2,3,4,5,6,7,8 -
Status	Analog fallback : None
System	Dialing Rules : If the number begins with 9 and followed by (☑ more than) 3 digits (define a custom pattern)
	Delete 1 digits from the front and auto-add digit before dialing Save Cancel

In the example, we have now added a Dial rule "Nicherons_Outcall" in the "DialPlan1". As we can see from the dialing rule of "Nicherons_Outcall", all numbers start with 9 will be cut the first digit ('9') and sent to PSTN (port3 or port4).

Choose Dial Plan for extensions:

On the User page, edit the extensions to choose DialPlan1.

	Ex	ttension Configuration 🧅
Home	Extensions:	Extensions Setting
Basic Extensions Trunks Outbound Routes Inbound Control Advanced Status System	801 802 User2 803 User3 804 User4 805 User5 806 User6 807 User7 808 User8 809 User10 811 User10 811 User11 812 User12 813 User13 814 User14 815 User14 815 User15 816 User16 817 User17 818 User18 819 User17 818 User19 820 User20 821 User21 822 User22 823 User23 824 User24 825 User25	Extension: 809 Name: User9 Password: 809 Caller ID: 809 Caller ID: 809 Caller ID: 809 E-mail:

After we have done above, in the extension we can dial 9 + local number to dial out via PSTN line.

Make call via VoIP trunk

Via the voip trunking we can dial call via the voip service to reduce our cost when making international calls.



Add VoIP service provider

Trunk -> Add a Trunk: Add a Custom Trunk.

SpoTel TM by Nicherons Canada		Trunk 🗢
Zenome		Edit Trunk X
Basic Extensions Trunks	Provider Type: Analog Trunk Custom Trunk	Comment: Nicherons Protocol: SIP Register: Host: 192,168,1,101
Inbound Control Advanced Status System		Without Authentication Username: 1111 Password: ••••
		Save Cancel Add a Trunk

Add Dial Rule

In Dial Rules -> add a new calling rule as below *Dial Rules*

SpoTel TM by Nicherons Canada	
	Dial Rules 🧄
	List of DialPlans:
Basic	DialPlan1 - New Delete
Extensions	
🕵 Trunks	List of Dial Rules: Add a Dial Rule
Cutbound Routes	S.No RuleName Dial Pattern Call Using Ontions
Inbound Control	Rule Name: Nicherons_Voip
Advanced	Place this call through : Custom - Nicherons -
04-4	Analog fallback : None 🗸
Status	Dialing Rules : If the number begins with 0 and
System	followed by (More than) 3 digits
	(define a custom pattern)
	Delete 1 digits from the front and auto-add digit before dialing
	Save Cancel

Now we have added a new calling rule "Nicherons_VoIP" in the "DialPlan1".

As we can see from the "Nicherons_VoIP" dialing rule, all numbers start with 0 will be cut the first one digits ('0') and sent to my sip service provider.

The "Nicherons_Out" is in the same DialPlan1. Since we have added this dial plan to the extensions in above, we don't need to add dial plan again.

So when we have added two calling rules, any call start with 9 will be route to PSTN, and call starts with 0 will be route to VoIP.

6.5 How to make an incoming call

Add an Incoming call.

SpoTel TM by Nicherons Canada	Incoming Calle
Hama	
	x
Basic	
Inbound Control	Route All Unmatched incoming calls -
Pinbound Routes	from Trunk Ports 1,2,3,4,5,6,7,8 -
S= IVR	Destination 802 User2
K Prompts	Save Cancel
🍣 Ring Groups	

Select Route "All Unmatched incoming calls"

From provider "Port 1,2,3,4,5,6,7,8"

To extension "Extension 802" (here, you can select a extension, an IVR, TimeRule or others)

Then, if there is incoming call from any analog phone lines, the extension 802 will ring.

6.6 How to Set an incoming call to IVR based time rule

Add record a custom voice

Record -> Record a new voice

SpoTel [™] by Nicherons Canada						
		Record	Voices For	Custom IVR	φ	
Home			List of Recorded voices			
Basic	S.No	Name		Opt	ions	
Inbound Control	1	closed.gsm		Record Again	Play	Delete
	2	welcome.gsm		Record Again	Play	Delete
Inbound Routes			Record a new Vo	pice		X
Ste IVR						
IVR Prompts	File N	ame:	Welcome			
	Exten	sion used for recording:	801	•		
Advanced			Hecord	Cancel		
Status						
System						
			Record a new	voice		
Set the record name is	s "We	lcome"				
Choose a extension us	sed fo	or recording, here	we use EXT	Г 801		

Click Record button

Then, the extension 801 will ring

Pick up the phone record "Welcome" message

Then hangup and finish the record .

Use the same way to record "Closing" message

SpoTel™ by Nicherons Canada		
	Record Voices	For Custom IVR 🚸
Home	List of R	ecorded voices
Basic	S.No Name	Options
Inbound Control	1 closed.gsm	Hecord Again Play Delete
Notes Inbound Routes	2 welcome.gsm	Record Again Play Delete
NR Prompts		
🍣 Ring Groups		
Advanced		
Status		
Svetom		
System		
	Becord a	a new voice
	100014	
Add a Ring Group	0	
Ring Group -> New Rin	ng Group	
● SpoTel [™] by		
Canada		
Home	Ring	g Groups 🔅
20 Home	Add Ring Group	x
Basic	Name: tech	Strategy: Ring all
Inbound Control	IAX2/801	← SIP/805 User5
1 Inbound Routes	SIP/802 User2	SIP/806 User6
P 11/2	SIP/803 User3	→ SIP/807 User7
M IVR	SIP/804 0ser4	SIP/808 User8 SIP/809 User9
IVR Prompts		SIP/810 User10
Sing Groups		SIP/811 User11 SIP/812 User12
Advanced	Ring Group Members	Available Channels
Auvanueu	Extension for this r	ing group(Option) :
Status	Ring (each/all) for	these many seconds : 20
System	If not answered	
	◯ Goto an Extension	
	Goto an Extension Voicemail Goto a BingCrown	IVR working time 💌
	 Goto an IVR menu 	
	○ HangUp	
	Sav	Cancel

Example:

Name the ring group "tech"

Choose the group members whose extensions are "801. 802, 803, 804"

"if no answered", choose "goto IVR"-- "working time"

Click "Save" button

SpoTel TM by Nicherons Canada			Ring G	roups 💠		Activate Changes Logout Hangup: Hangup the call if the ringroup no answ
Basic			List of F	Ring Groups		
	S.No	Ring Group			Options	
Inbound Control	1	tech			Edit Delete	
Inbound Routes						
Star IVR						
NR Prompts						
🍣 Ring Groups						
Advanced						
Status						
Suctor						
oystem						
			New	Ring Group		
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Set IVR

IVR		
SpoTel [™] by Nicherons Canada		
		IVR 🌣
Home	IVR Menu:	IVR Setting
Basic	IVR – working time IVR – closed time	Name: working time Extension:
Inbound Control		Welcome Massage
1 Inbound Routes		Please Select welcome
P 11/25		Dial other Extensions?
M INK		Keynress' Events
K Prompts		Key Action
Ring Groups		0 Goto Extension V 805 V
Advanced		1 Goto Extension V 806 V
Advanced		2 Goto RingGroup x Ltech x
Status		
System		
		4 Disabled •
		5 Disabled -
		6 Disabled •
		7 Disabled •
	New Delete	Save Cancel
Select IVR-working	time, Set welcome mas	ssage is "Welcome"

Set keypress' Events

Dial "0" go to extension 805 Dial "1" go to extension 806 Dial "2" go to ringgroup tech Click Save button

50

SpoTel TM by Nicherons Canada			
		IVR 🌼	
Home	IVR Menu:	IVR Setting	
Basic	IVR - working time	Name: closed time Extension:	
Inbound Control	TVR – closed time	Welcome Massage	
Nound Routes		Please Select closed	
star ivr		Dial other Extensions?	
K Prompts		Keypress' Events	
		Key Action	
S Ring Groups		0 Disabled 🔽	
Advanced		1 Disabled 🔹	
Status		2 Disabled •	
Svstem		3 Disabled 💌	-
		4 Disabled 💌	
		5 Disabled 🔹	
		6 Disabled •	4
		7 Disabled •	Ŧ
	New Delete	Save Can	cel
	al time e		

Then set IVR-closed time Set welcome massage is "Closing"

If the Name Directory (Dial-by-Name) is enabled,

Extension Configuration 🔅							
Extensions Setting							
	Extension:	806					
	Name:						
	Password:	806					
	Caller ID:						
	VM Password:	806					
	E-mail:						
	Analog Phone:	-					
	Dial Plan:	DialPlan1 _					
	Advance Optio	ns					
	Voicemail	Can Reinvite					
	SIP						
	Call Waiting	🗹 3-Way Calling					
U	🗹 NAT	Pickup Group					
	Is Agent	DTMFMode RFC2833 -					
	Directory						

Add a Time Rule

Time Based Rules -> New Time Rule

SpoTel TM by Nicherons		
	Time Based Rules 💠	
Home	Edit Time Rule	X
Basic	Rule Name : Incoming (Ex: July4)	
Inbound Control	Time & Date Conditions	
Advanced	Start Time: 09 • : 00 • End Time: 17 • : 30 •	
Sperator	Start Day: Mon 🔻 End Day: Fri 💌	
Voicemail	Start Date: 01 - End Date: 31 -	
K Conferencing	Start Month: January 💌 End Month: December 💌	
Music on hold	Destination	
Call Parking	if time matches: VoiceMenu working time	
	if time did not match: VoiceMenu closed time	
	Save Cancel	
Follow Me		
Sime Based Rules		
Status		
System		
	New Time Rule	

Set a Rule Name, eg: incoming Set the Time & Date Conditions "If time matches" --- go to "working time" "If time not match" --- go to "closed time" Click the save button, saved the configuration

SpoTel™ by Nicherons Canada			
		Time Based Rules 🔅	
Home			
Basic	S.No RuleName	List of Ring Groups	Options
Inbound Control	1 Incoming		Edit Delete
Advanced			
🙀 Operator			
Voicemail			
onferencing			
Music on hold			
Call Parking			
A DISA			
Sollow Me			
Iime Based Rules			
Status			
System			
		New Time Rule	

Add a Trunk

Trunks -> add a Trunk

SpoTel TM by Nicherons Canada		Tru	ınk 🌣	
		Edi	t Trunk	x
Basic Extensions Trunks Outbound Routes Inbound Control Advanced Status	Provider Type: Analog Trunk	Lines:	 Analog Port #1 Analog Port #2 ✓ Analog Port #3 ✓ Analog Port #4 Analog Port #5 Analog Port #6 	
System		Add	Save Cancel	

Add an incoming router

Inbound routers -> add an incoming rule

Home Basic	Incoming Calls 🧐
Inbound Control	Route All Unmatched incoming calls -
Inbound Routes	from Trunk Ports 3,4
Advanced	
Status	
System	

Select Route: All Unmatched incoming calls From provider: Ports 3, 4 To extension: incoming—Time Based Rule

SpoTel™ by Nicherons Canada				
Home		Incoming Calls 🧅		Activate Changes Logout Lines: Individual lines of the PBX Ex: Analog Port
Deale		List of Incoming Call Rules		#3: The third analog port of the PBX.
Basic	S.No	Incoming Rule	Options	
Inbound Control	1	Route all unmatched incoming calls from provider 'Ports 3,4' to 'Incoming Time Based Rule'	Edit Delete	
Pinbound Routes				
Star IVR				
🚳 IVR Prompts				
🍣 Ring Groups				
Advanced				
Status				
System				
		Add an Incoming Rule		
		SpoTel® is a registered trademark of Nicherons Int'l Inc.	. Canada, All Rights Reserved	L

Then click Activate Changes, Made the change active for the current configuration

6.7 Link two IPPBX in the same network

The simplest case to link two IPPBX together in the same network. We start from this and then try to expand to different network.



Below is the structure of how to link two IPPBX in the same LAN:

The method of connecting two IPPBX08 in different location is:

1) Register the IPPBX08-A as an extension in IPPBX08-B(via IAX2 trunk), so the extensions in IPPBX08-A can make calls to IPPBX08-B's extensions via this "special" trunk.

2) Use the reverse method in IPPBX08-B to register to IPPBX08-A. In above structure:

1) An ip phone registers to IPPBX08-A as an extension 601.

2) An ip phone registers to IPPBX08-B as an extension 801.

3) All the extensions under IPPBX08-A are in the format 6XX.

4) All the extensions under IPPBX08-B are in the format 8XX

5) Extensions under IPPBX08-A can make calls to extension under IPPBX08-B use format 8XX.

6) Extensions under IPPBX08-B can make calls to extension under IPPBX08-A use format 6XX.

7) The two IPPBX08 links each other via IAX2 trunk.

Step 1: Set up a extension 699 in IPPBX08-A

Extension:	699	; Phone number of this extension
Name:	IPPBX	(08B_Users ;
Password:	699	;IAX2 Log on password
Caller ID:	699	; Caller ID

Advance Options: Select IAX protocol

Step 2: Set up an IAX trunk in IPPBX08-B to link to IPPBX08-A via this

IPPBX08B_Users extension.

.

In the page Trunks--> Add a Trunk

● SpoTel™ by ● Nicherons Canada		Trunk 🗅
Home		
Basic Extensions Trunks	Provider Type: Analog Trunk	Comment: Call_phoneA Protocol: IAX Register:
Outbound Routes	Coston Hunk	Host: 192.168.1.100 Without Authentication Username: 699
Status System		Password: •••
······		
		Save Cancel

Step 3: Set Dial Rule in IPPBX08-B, all calls start with 6 will be sent to IPPBX08-A. In the page: Outbound Routers --> Add a Dial Rule

SpoTel TM by Nicherons Canada	
	Dial Rules 👳
A Home	List of DialPlans:
Basic	DialPlan2 - New Delete
Extensions	
🕵 Trunks	List of Dial Rules: Add a Dial Rule
Cutbound Routes	x
Inbound Control	Rule Name: Out_phoneA
Advanced	Place this call through : Custom - Call_phoneA -
Ctatua	Analog fallback : None 💌
olalus	Dialing Rules : If the number begins with 6 and
System	followed by (wore than) 1 digits
	(define a custom pattern) Delete 0 digits from the front and auto-add digit before dialing Save Cancel

Step 4: Set the user Dial Plan in IPPBX08-A,

In the page: Extensions \rightarrow Dial Plan

Extension Configuration 🧅								
	Extensions Setting							
C I	Extension:	601						
	Name:	Nicherons_Test						
	Password:	601						
0	Caller ID:	601						
	VM Password:	1234						
	E-mail:							
	Analog Phone:	•						
	Dial Plan:	DialPlan1 🔹						
	Advance Optio	ns						
	Voicemail	Can Reinvite						
	SIP							
	d Call Waiting	3-Way Calling						
		Pickup Group 1 🔹						
		DTMFMode RFC2833 -						

Active the change and apply the test:

- 1. Register an IP phoneB to IPPBX08-B with 801 extension.
- 2. Register an IP phoneA to IPPBX08-A with 601 extension.
- 3. Use 801 to dial 601. And you can see 601 will ring and you can pick up the calls.

Above is the way to router IPPBX08-B's call to IPPBX08-A, the method to link IPPBX08-A to IPPBX08-B is the same as above.

6.8 Link two IPPBX in different network

Two IPPBX08 are in internet

The generally environment for two IPPBX08 in different location is: two IPPBX08 are both in the internet and using the public IP.



The configuration is same with "Link two IPPBX08 in the same network".

But when you set the trunk, you must use the public ip.

Like the follow:

Set up an IAX trunk in IPPBX08-B to link to IPPBX08-A via this IPPBX08B_Users extension.

In the page Trunks--> Add a Trunk

Trunk 💠					
	Add Trunk X				
Provider Type: Analog Trunk Custom Trunk	Comment: Call_phoneA Protocol: IAX • Register: • Host: 210.200.12.1 • Without Authentication Username: 699 Password: •••				
Save Cancel					

Two IPPBX08s are behind router.

The generally environment for two IPPBX08 in different location is: two IPPBX08 are both behind router and using the private IP.

Since the IPPBX08 doesn't have the public IP, we need to do port forwarding in the router and make IPPBX08 is reachable to others.



Step 1: Set port forwarding in the router for IPPBX08-A

The IPPBX08-A is behind the router, to register to IPPBX08-A via the internet, you need to forward the IAX2 port in your router, so all the packets received on the router WAN port (210.11.25.127:4569) will be forwarded to the IPPBX08-A (192.168.1.21:4569). Below is the setting page in a linksys router:

Applications			_					
& Gaming	Setup	Security	^	Applicat & Gam	tions	Administration	Status	
	Port Range Fo	orwarding	1	Po	rt Triggering	UPnP Forwarding		DMZ
- UDpD Ecoverding								UPnP Forwarding
orne roi warding	Amplication	Evel Davel	TCD	1100	Int Dout	ID Address	Enchlad	
	Application	Ext.Port	TCP	UUP	Int.Port	IP Address	Enabled	UPnP Forwarding can be use to set up public services on
	FTP	21	۲	\circ	21	192.168.1. 0		your network. When users f
	Telnet	23	۲	\circ	23	192.168.1.0		requests on your network, th
	SMTP	25	۲	0	25	192.168.1. O		requests to computers equip to handle the requests. If for
	DNS	53	0	۲	53	192.168.1.0		example, you set the port number 80 (HTTP) to be
	TFTP	69	0	۲	69	192.168.1.0		forwarded to IP Address 192,168,1,2, then all HTTP
	finger	79	۲	0	79	192.168.1.0		requests from outside users be forwarded to 192.168.1.2
	HTTP	80	۲	0	80	192.168.1. 199		is recommended that the computer use static IP
	POP3	110	۲	\circ	110	192.168.1.0		address.
	NNTP	119	۲	0	119	192.168.1.0		You may use this function to establish a Web server or FT
	SNMP	161	0	۲	161	192.168.1.0		server via an IP Gateway. In this format, Windows XP car
	ssh	2020	۲	0	22	192.168.1.235		UPnP communication.Be sure
	http1	8080	۲	0	80	192.168.1. 29		Address. (You may need to
	http2	8090	۲	0	80	192.168.1. 209		establish a static IP address with your ISP in order to properly run an Internet serv
	IAX	4569	۲	0	4569	192.168.1. 21		For added security,
	IAX2	4569	0	۲	4569	192.168.1.21		More

Step 2. Set up the service provider and calling rule in IPPBX08-B to make it register to IPPBX08-A. This method is almost the same as above, EXCEPT you need to use the 210.11.25.127 as the service provider instead of 192.168.1.21.

Step 3. Use the same method do port forwarding in router-B for IPPBX08-B. Your public address from network provider maybe a dynamic ip which will be changed periodically. To overcome the problem of dynamic ip, you may need to use the DDNS service , for more info please google the internet.

Step 4. How to resolve problems about hearing only on one side:

If your IPPBX behind the Router, you should build a IP Address Map: As follow:

Mangerment---->Show Advanced Options ---->GOTO : Golbal SIP Settings



--->NAT Support

NAT Support

	Extern ip: nicheron.dyndns.org
	Extern Host: nicherons.dyndns.org
	Extern Refresh:
	Local Network Address: 192.168.1.0/255.255.
	NAT mode: yes -
	Allow RTP Reinvite:
Extern ip	Replace with your external ip address this your public IP or domain

Extern HostReplace with your external ip addressthis your public IP or domainExtern RefreshSet time for fresh,default 10Local Network AddressReplace with your local network address and maskNAT modeIf your IPPBX behind the Router, set default yes

Combine SpoTel with existing traditional PBX

Assume there is already existed a traditional PBX (3 FXO, 8 Extensions) in your office, how can you add more PSTN lines/extensions or use VOIP solution in the exist solution? SpoTel will give you a favor, which can combine with exist PBX solution as below structure:

Flowchart:



Application: 1. Connect PBX's CO port (FXO Ports) to SpoTel's FXS port.

PBX will be one of the SPOTEL's extensions and all the extensions under PBX can use the FXS functions from SpoTel. The functions include: 1) Make calls to the SpoTel's other extensions. 2) Make calls use the SpoTel's voip trunk. 3) Make PSTN via SpoTel's PSTN trunk.

2. Connect PBX's FXS port to SpoTel's FXO port.

SpoTel will be one of the PBX extensions and all the extensions under PBX can

use all the FXS functions from PBX. The functions include: 1) Make calls to the PBX's other extensions.