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CooVox Series IP Phone System User Manual (Admin)

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Safety Notice

Please read the following safety notices before installing or using this IP PBX. They are crucial for safe and reliable operation of the device. Failure to follow the instructions contained in this document may result in damage to your PBX and void the manufacturer's warranty.

1. Please use the external power supply which is included in the package. Other power supplies may cause damage to the device, affect the performance or induce noise.

2. Before using the external power supply in the package, please check your building power voltage. Connecting to Inaccurate power voltage may cause fire and damage.

3. Please do not damage the power cord. If the power cord or plug is impaired, do not use it. Connecting a damaged power cord may cause fire or electric shock.

4. Ensure the plug-socket combination is accessible even after the PBX is installed. In order to service the PBX it will need to be disconnected from the power source.

5. Do not drop, knock or shake the device. Rough handling can break internal circuit boards.

6. Do not install the device in places where there is direct sunlight. Also do not place the device on carpets or cushions. Doing so may cause the device to malfunction or cause a fire.

7. Avoid exposing the device to high temperature (above 40°C), low temperature (below -10°C) or high humidity. Doing so could cause damage and will void the manufacturer warranty.

8. Avoid letting the device come in contact with water or any liquid which would damage the device.

9. Do not attempt to open it. Non-expert handling to the device could cause damage and will immediately void the manufacturer warranty.

10. Consult your authorized dealer for assistance with any issues or questions you may have.

11. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the device.

12. Wipe it with soft cloth that has been slightly dampened in a mild soap and water solution.

13. If you suspect your device has been struck by lightning, do not touch the device, power plug or phone line. Call your authorized dealer for assistance to avoid the possibility of electric shock.

14. Ensure the PBX is installed in a well ventilated room to avoid overheating and damaging the device.

15. Before you work on any equipment, be aware of any hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. If you are in a situation that could cause bodily injury.

Chapter 1 Brief Introduction

1.1 Brief Introduction of CooVox Series

The CooVox Series IP PBXs are designed to provide SMEs (small & medium enterprises) with all the standard and many advanced features that are normally only available from large, expensive, legacy PBX manufacturers. Aimed at businesses with up to 100 extensions, the CooVox Series IP PBXs are based on SIP and OpenSource Asterisk 1.8, With its innovative modular telephony design, it is easy to expand the PBX to meet the growing needs of your business.

CooVox Series IP PBXs come in three sizes: U20/ U50/ U100.

Each model will be introduced in detail below:

CooVox-U20 is configured with 2 analog ports:

	FXS	FXO
CooVox-U20	1	1
	0	2

CooVox-U50 consists of two main parts: U50 Host and the Telephony Modules. There are 2 slots in the system and the modules can be utilized as in the diagram below:

U50 Slot U50 Module	Slot 1	Slot 2
4FXS	✓	\checkmark
4FXO	✓	<
2FXOS	✓	✓
2GSM	✓	<
4GSM	✓	<
4BRI	✓	×
1E1/T1	\checkmark	×

CooVox-U100 consists of two main parts: U100 Host and Modules. There are 2 slots in the system and the modules can be utilized as in the diagram below:

U100 Slot U100 Module	Slot 1	Slot 2
4FXS	>	\checkmark
4FXO	~	\checkmark
2FXOS	~	\checkmark
2GSM	~	\checkmark
4GSM	~	\checkmark
4BRI	~	\checkmark
1E1/T1	 ✓ 	✓

1.2 Main Features

- 1. SIP/ IAX Extension Registration
- 2. Video Call
- 3. USB Mobile Hard Disk Record (Scalable)
- 4. IP Phone Provisioning (Grandstream /Yealink/Fanvil IP Phone)
- 5. Call Record /Ring Group Record/ Call Queue Record
- 6. Web-based Administration and configuration
- 7. Web-based Extension User Management
- 8. Voicemail
- 9. Caller ID
- 10. Call Parking
- 11. Call Forward
- 12. Call Transfer
- 13. Call Waiting
- 14. Call Center Queues
- 15. Black List
- 16. Phonebook
- 17. Flexible Dial Plan
- 18. Virtual Fax (fax to email, and email to fax)
- 19. DID
- 20. Dial by Name
- 21. Speed Dial
- 22. Do Not Disturb
- 23. Callback
- 24. Skype for SIP
- 25. Ring Group
- 26. Conference Bridge (Three Conferences)
- 27. Music On Hold
- 28. DISA (Direct Inward System Access) /Paging And Intercom
- 29. Call Detail Record
- 30. IP Phone Feature Code
- 31. BLF(Busy Lamp Field)
- 32. Static /DHCP /PPPoE Network Access
- 33. DHCP Server
- 34. System Backup
- 35. T.38 Pass-through
- 36. Audio Codec: G.722/ G.711-Ulaw/ G.711-Alaw/ G.726/ G.729/ GSM/ SPEEX
- 37. Video Codec: H.261/ H.263 / H.263+ / H.264
- 38. VPN Server (L2TP / PPTP / OpenVPN, up to 10 connections for VPN clients)
- 39. VPN Client (L2TP / PPTP / OpenVPN / N2N)
- 40. SNMPv2
- 41. IPv4 / IPv6
- 42. DDNS(Dyndns.org /No-ip.com /zoneedit.com)

1.3 Module

4FXS Module	4FXO Module
2FXOS Module	2GSM Module
4GSM Module	4BRI Module
1E1/T1 Module	32 EC Module

1.4 Hardware Interface

1.4.1 CooVox-U20







CooVox-U20 Back Panel

- 1. 1 * Reset Button
- 2. 1 * Power Interface (*DC 12V 2A*)
- 3. 1 * Ethernet Interface (10/100Mbps)
- 4. 2 * Analog Ports(FXO/FXS)
- 5. 1 * UMTS Port

U20 LEDs Indication

Indication	Function	Status	Explaination
PWR	Power Status	On	Power On
PVVR	Power Status	Off	Power Off
SYS	Sustan Status	Blink	System Works
515	System Status	Off	System Fails
ETH	WAN or LAN Data Status	Blink	Data Transport
		Off	Module not running
G	GSM or UMTS(3G) Status	64ms On/800ms Off	Module doesn't find network
		64ms On/3000ms Off	Module finds network
		Red	Module Loading Success
1	FXO	Blink	Channel Ringing
		Off	Module Loading Failure
2		Green	Module Loading Success
	FXS	Blink	Channel Ringing
		Off	Module Loading Failure

1.4.2 CooVox-U50



CooVox-U50 Front Panel



CooVox-U50 Back Panel

- 1. 1 * Reset Button
- 2. 1 * Power Interface (*DC 12V 2A*)
- 3. 1 * Ethernet Interface (10/100Mbps)
- 4. 1 * Console Interface
- 5. 1 * USB Interface
- 6. SLOT 1 for Analog/ GSM/ E1/T1/ BRI Module Card
- 7. SLOT 2 for Analog/ GSM Module Card Only

U50 LEDs Indication

Indication	Function		Stat	us	Explaination		
DWD	Davies Of a first	On		On			Power On
PWR	Power Status	Off			Power Off		
0.1/0		Blink			System Works		
SYS	System Status	Off			System Fails		
ET.L	Data Otatus	Blink			Data Transport		
ETH	Data Status	Off			No Data Transport		
		Off			Module not running		
USB	U-disk or UMTS(3G) Status	On			Module Works		
				Green	Module Loading Success		
		FXS		Blink	Channel Ringing		
				Off	Module Loading Failure		
				Red	Module Loading Success		
		FXO		Blink	Channel Ringing		
				Off	Module Loading Failure		
				Red	Module Loading Success		
		GSM		Blink	Channel Ringing		
				Off	Module Loading Failure		
		E1/T1	L1	Red	Module Loading Success		
		(PRI/		Off	Module Loading Failure		
1-4(SLOT1)	SLOT 1 Status	R2)	L2	Red	CPE signal		
				Green	NET signal		
					Off	No signal	
			L3	Red	SS7 signal		
				Green	MFCR2 signal		
					Off	No signal	
			L4	Red	Disconnected/ Alarm		
				Green	Connected/ No Alarm		
		BRI		Red	TE Mode		
				Green	NT Mode		
				Off	Module Loading Failure		
				Green	Module Loading Success		
		FXS		Blink	Channel Ringing		
				Off	Module Loading Failure		
				Red	Module Loading Success		
1-4(SLOT2)	SLOT 2 Status	FXO		Blink	Channel Ringing		
				Off	Module Loading Failure		
				Red	Module Loading Success		
		GSM		Blink	Channel Ringing		
				Off	Module Loading Failure		

1.4.3 CooVox-U100



CooVox-U100 Front Panel



CooVox-U100 Back Panel

- 6. 1 * Reset Button
- 7. 1 * Power Interface
- 8. 1 * Power Switch
- 9. 2 * Ethernet Interfaces (10/100 Mbps)
- 10. 1 * VGA Interface
- 11. 2 * USB Interfaces
- 12. 2 * Audio Interfaces
- 13. SLOT 1 for Any Module Card
- 14. SLOT 2 for Any Module Card

Indication	Function	Status		us	Explaination				
	Dower Status	On			Power On				
PWR	Power Status	Off	Off		Power Off				
0)/0	Queters Otatus	Blink			System Works				
SYS	System Status	Off			System Fails				
ET.		Blink			Data Transport				
ETH	Data Status	Off			No Data Transport				
		EVO		Green	Module Loading Success				
		FXS		Off	Module Loading Failure				
		EV.O		Red	Module Loading Success				
		FXO		Off	Module Loading Failure				
				Red	Module Loading Success				
		GSM		Off	Module Loading Failure				
	E1/T1	L1	Red	Module Loading Success					
								Off	Module Loading Failure
					L2	Red	CPE signal		
1-4(SLOT1/2)	SLOT 1 /2 Status			Green	NET signal				
							Off	No signal	
			L3	Red	SS7 signal				
				Green	MFCR2 signal				
				Off	No signal				
			L4	Red	Disconnected/ Alarm				
				Green	Connected/ No Alarm				
		BRI		Red	TE Mode				
				Green	NT Mode				
				Off	Module Loading Failure				

U100 LED Indication

1.4.5 Model Comparison Table

	Items	CooVox-U20	CooVox-U50	CooVox-U100
System Capacity	Concurrent Calls	10	12	80
	Extension Users	30	100	500
	Voicemail and	21,000 mins (GSM/	21,000 mins (GSM/	2,500,000 or 100,000
	Recording	default)	default)	mins
				(GSM/ default)
		3000 mins (wav)	3000 mins	270,000 or 10,000 mins
			(wav)	(wav)
Hardware	SDRAM	128MB DDR2	256MB DDR2	2GB DDR3
Capacity	Memory (default)	4GB SD card	4GB SD card	500GB HDD
				or 32GB SSD
Power Supply	Input	100-240Vac	100-240Vac	100-240Vac
	Output	DC 12V/1A	DC 12V/2A	

1.4.6 Environmental Requirements

- 1. Working Tempreture: 0 °C ~40 °C
- 2. Storage Tempreture: -30 °C ~ 65 °C
- 3. Humidity: 0~95% No Dew

1.4.7 Packing List

1.	CooVox Host	1 set
2.	Power Supply	1 piece
3.	Ethernet Cable	1 piece
4.	Quick Installation Guide	1 piece
5.	Warranty Card	1 piece

Notice:

1) ZYCOO Module cards will only function in CooVox IP PBX from ZYCOO;

2) Module cards for CooVox-U50/U100 will be packed separately but contained in the same package.

Chapter 2 Getting Started

(Take CooVox-U50 as example for the guide)

2.1 Before Configuration

What kind of IP Phones can be used with this device?

- 1. FXS Interface: Analog Phone or fax machine
- SIP Extension: CooFone Series and ZP Series IP Phones provided by ZYCOO (D30/ D30P/ D60/ ZP302/ ZP502/ ZP502P)
 Any standard SIP Phone based on SIP/ IAX2 protocol (eg: CISCO, Grandstream, Yealink, Polycom, Siemens, Snom,etc.)

2.2 Before Making a Call

2.2.1 Login IP PBX

Getting IP Address

There are three ways to set the IP address: Static, DHCP, PPPoE. Default IP: <u>192.168.1.100:9999</u> Notice: you have to add port number 9999 after this IP address.

Defaults and Function Key

1.	Web Panel User name:	admin
2.	Web Panel Password:	admin
3.	*60	Enter Voicemail Box
4.	900/901/902	Default three conference room numbers
5.	#	Blind Transfer
6.	*2	Attended Transfer
7.	*	Disconnect Call

Administrator Login

After connecting the CooVox IP PBX to the local area network and setting your laptop to the 192.168.1.x subnet, launch the web browser and bring up the system login page by entering the following URL: <u>http://192.168.1.100:9999</u>. You will see the login interface as below:

Username: Password: Language: English		P PHON	E SYSTEN	1	
Password:	WE FOCUS, WE DEUVER				
Language: English					
Login	Language:	English			

Input username and password, press the "Login" button and you will see the configuration interface below.

1. Default username: admin and password: admin

3.

1. Please use IE(7.0 or higher version), Chrome, Firefox web browser.

2. If you do not see the interface above after inputting default IP and port number, please check whether your computer IP address is in the same segment with your IP PBX.

For Security reasons, please modify the username and password after login successfully.
 You can modify these by selecting: [System] --- [Management]

4. With the default setting, if there is no activity on the page for more than one minute, the system will timeout and automatically log out To continue making configuration changes, you will need to login again.

ZYCOD								
WE FOCUS.WE DELIVER								Logou
▶ Home	Home 🌣							Move the mouse over a field to see tooltips
 Operator 			Sy	stem Info				
Basic	Network							
Inbound Control	WAN			IP: 192.16	3.1.114 M	AC: 00:80:A	D:20:31:E9	
Advanced	Storage							
Network Settings	Disk			Total:	1.1G	Used:	212.9M	
Security	Analog/GSM C	hannels						
Report	SLOT 1			SLOT 2				
System	1 FXS	2 3		1 GSM	2 GSM	3 GSM	4 GSM	
			De	evice Info				
	Model No.:	CooV	ox-U50-A8	System Ve	ersion:	4.0		
	Current Time:0	4/07/13 16:	22			Rur	1 Time:2:00	

- 2. Network WAN IP and MAC will be displayed
 - Storage Total storage and used storage will be displayed
- 4. Channels Channel information will be displayed based on the modules installed
- 5. Device Info Model No. And system version will be displayed

Commonly Used Buttons

On the home page, besides system info, there are other function buttons as below:

- 1. Logout the Web panel
- 2. Activate Changes Activate the changes for your current configuration

System Menu

System Menu includes the following sub menu:

1.	Home	Display device information
2.	Operator	Extension / Trunk / Channel Status
3.	Basic	Basic configuration on extension, trunks, etc
4.	Inbound Control	Configuration of Inbound Route, IVR and Black List, etc
5.	Advanced	Configuration of extension's default information,
		Conference Call, Call Transfer, Function Key, etc.
6.	Network Settings	Configuration of Routing, Network, VPN, DHCP and other
		related network parameters
7.	Security:	Configuration of Firewall, SSH, FTP.
8.	Report	Record List, Call Logs and System Logs.
9.	System	Time Settings, Management, Back Up and Upgrade, etc.

2.2.2 Basic Configuration

Extension Configuration

CooVox Supports SIP/ IAX2 and analog extensions as well as the ability to "Batch Add Users" by uploading extensions file.

Click [Basic] -> [Extensions] to configure:

Home	Ext	ensio	ons								Move the mouse over a fie to see tooltips
Operator							Upload/	Download E	tensions		
Basic			-	F							
 Extensions 	Ex	tens	ion:		Search	Sh	iow All				
 Trunks 		New	User	Batch	n Add User	· s	D	elete Selecte	ed Users		
 Outbound Routes 				Dutter	i Add obei						
Inbound Control	Ext	ensi	ons								_
Advanced			Name		xtension	Port	Protocol	Dial Plan	Outbound CID		
Network Settings		-	800	-	800		SIP	DialPlan1		Edit	
Security		-	801 802		801 802		SIP	DialPlan1 DialPlan1		Edit	
Report		-	802		802 803		SIP	DialPlan1		Edit	
System			804		804		SIP	DialPlan1		Edit	
		-	805		805		SIP	DialPlan1		Edit	
		7	806	8	806		SIP	DialPlan1		Edit	
		8	807	8	807		SIP	DialPlan1		Edit	
		9	808	8	808		SIP	DialPlan1		Edit	
		10	809	8	809		SIP	DialPlan1		Edit	

		New	
General			
SIP:	•	IAX2:	
Name:	817	Extension:	817
Password:	Z_2Aj3V%BV	Outbound CID:	
Dial Plan:	DialPlan1	Analog Phone:	None 🖌
Voicemail			
Voicemail:	v	VM Password:	1234
Delete VMail:	:	Email(Fax/Voicem	ail):
Other Optio	ons		
Web Manage Allow Being S Mobility Exte	Spied: 🗌 Pickup	Group: 1 V Extension Number	Call Waiting: 🔽
VoIP Settin	gs		
NAT:	Transpo	rt: UDP 💌	SRTP:
DTMF Mode:	RFC2833 ¥	Permit IP:	
Video Optio	ns		
Video Call:			
∏ H.261 ∏	H.263 🗖 H.263+	H.264	

Click [New User] to see the extension configuration interface as below:

Extension Settings:

Item	Explanation
SIP/IAX2	Choose extension protocol.
Name	Extension Name (English Character Only), e.g.: Tom.
Extension	Extension Number connected to the phone, e.g.: 888.
Password	Same password as voicemail. (4-16 digits, e.g.:123456)
Outbound CID	Override the caller ID when dialing out with a trunk.
Dial Plan	Please choose the Dial Plan which is defined in the menu "Outbound Routes".
Analog Phone	Please select the relative FXS port for your analog phone.
Voicemail	Check this option to enable the voicemail account
VM Password	Set password for Voicemail, For security reasons, do not use the extension number or any easy combination like "1234"
Delete VMail	Check this option to delete voicemail from the PBX after it's sent by email.
Email	Extension user's email address to receive email messages with attached fax or
(FAX/Voicemail)	voicemail (you need configure the fax to email/voicemail options), e.g.:
	Tom@gmail.com
Web Manager	Allow this user to login to the Extension Management Panel to manage extension
	options including voicemail, call recording, call transfer, etc when you select this option.
Agent	Check this option to set this extension user as agent.
Call Waiting	Enable call waiting
Allowing Being Spied	Check this option to allow this extension to be monitored (listened to or "spied").
NAT	Check this option if extension user or the phone is located outside the NAT(Network
	Address Translation) available gateway.
Pickup Group	Select the Pickup Group which the extension user belongs to.
Mobility Extension	After check this option, you must set mobility extension number. User can make calls to
	the IP PBX server with this mobility number, and have all rights of this extension, e.g.:
	Outbound Call, Internal Call, Listen to the voicemail.
Transport	Select the Transport Protocol: UDP, TCP, TLS
SRTP	Enable SRTP (Secure Real-time Transport Protocol)
DTMF Mode	Default DTMF is rfc2833. It can be changed if necessary
Video Call	Check to enable video calling for this extension. And select the video codecs you need
	to use.
Permit IP	Set device ip address or subnet permitted to register this extension with the IP PBX,
	e.g.:192.168.1.77 or 192.168.10.0/255.255.255.0. Devices with other IP addresses are
	not allowed to register this extension with the IP PBX.
Audio Codecs	Select what audio codecs you need to use.



1. There are 30 default extensions which number started with "8"*; you can add or delete extension by your requirement.

2. Maximum extensions: 100

Upload/Download Extensions

Click [Upload/Download Extensions] to batch add extensions as below:

7,0		
WE FOCUS, WE DELIVER		Logout
▶ Home	Upload/Download Extensions	Move the mouse over a field
Operator	Extensions Upload/Download Extensions	to see tooltips
Basic		
 Extensions 	Upload Extensions	
 Trunks 	Please choose file to upload: 浏览	
 Outbound Routes 	Upload	
Inbound Control	Opicad	
Advanced		
Network Settings	Download Extensions Template	
Security	Extensions Template	
Report	Right Click here to Save as Template File (.csv)	
System	Right Click here to Save as Template File (.txt)	
	Download Extensions(.csv)	
	Download Extensions	

Download the extension template from the 【Download Extensions Template】, open the template using an editor or application like Microsoft Excel and carefully add extension information based on the template format and save. Select the extension file to upload from 【Upload Extensions】

Download current extensions information from [Download Extensions(.csv)]

2.2.3 Time Based Rules

Create a Time Rule. For example, BusinessHours.

Select the starting and ending time, starting and ending days of the week, specific start and end dates and/or start and ending month of the year.

When an inbound call is processed, if the current time of the PBX is within these parameters, then the "if time matches" destination will be used for the call. If the current time of the PBX is outside these parameters, then the "if time does not match" destination will be used for the call.

Please set from this page: [Time Based Rule] --- [New Time Rule] :

New Time Rule	x
Rule Name:	
Time & Date Conditions	
Start Time:	
Destination	
if time matches:	
if time unmatches: 🗸 🗸 🗸	
Save Cancel	

New Time Rule:

Item	Explanation
Rule Name	Define the name for this Time Rule.
Time&Date Conditions	Set parameters for Time/Day/ Date/ Month.
Destination	Select destination if time matches or does not match the conditions set. For
	example for BusinessHours, "if time matches", select operator extension during
	BusinessHours. If outside business hours, select "if time does not match"
	destination of Operator voicemail

2.3 Outbound Call

2.3.1 Trunks

If you want to set up outbound route connected to PSTN (Public Switch Telephone Network) or VoIP provider, please configure on this page: **[**Basic**]** -> **[**Trunks**]**

WE FOCUS, WE DELIVER					Logout
HomeOperator	VoIP Trunks	VoIP Trunks	FXO/GSM Trunks		Move the mouse over a field to see tooltips
Basic • Extensions	List of Trunks		New VoIP Trunk		
Trunks Outbound Routes	Provider Nam	e Type Hostname	/IP Username	Options	
Inbound Control Advanced Network Settings	No <i>VoIP Trunk</i> define Please click on 'New to add a Trunk				
Security Report System					

CooVox supports two kinds of trunks for your choice: VoIP or SIP Trunk and FXO/GSM/PRI/BRI Trunk.

How to add each trunk:

VoIP Trunks

Click 【VoIP Trunk】-> 【New VoIP Trunk】:

Ne	w VoIP Trunk X
Description: Protocol: S	IP 🔻
Host:	:5060
Maximum Channels*: 0	
Prefix:	
Caller ID:	
🗆 Without Authentication	
Username:	
Authuser:	
Password:	
Advanced Options	
Domain:	Insecure: port, invite
From User:	Qualify(sec): 🔽 2
DID Number:	Transport: UDP 👻
DTMF Mode: RFC2833	▼ NAT: □ SRTP: □
Auto Fax Detection: 🗆	
Context: Default	✓ Language: Default
Audio Codecs	
🗌 alaw 🗌 ulaw 🗌 G.722	🗆 G.729 🗖 G.726 🗖 GSM 🗖 Speex
Video Codes	
🗆 Н.261 🗆 Н.263 🗆 Н.26	53+ 🗆 H.264
5	Save Cancel

VoIP Trunks Reference:

Item	Explanation
Description	Description of SIP trunk.
Protocol	Select protocol for outbound route, SIP or IAX2.
Host	Set host address (provided by VoIP Provider).
Maximum Channels	Set maximum channels for simultaneous call. (Only for outbound call; "0" = no
	limitation).
Prefix	The prefix will be added in front of your dialed number automatically when the trunk is in
	use.
Caller ID	This Caller ID will be displayed when user make outbound call. Note: This function must
	be supported by local provider.
Without Authentification	If your trunk is static IP based and does not require a registration string when
	connecting the CooVox IP PBX, check this option.
Username	Username provided by VoIP Provider.
Password	Password provided by VoIP Provider.
Advanced Options	Advanced options for this trunk, e.g.: codecs, dialplan, etc.

The outbound trunk will be in the list of VoIP Trunk when the trunk is added successfully.

FXO/GSM Trunk

		_		
	New FXO	GSM Trunk)
Description: Lines:	XO: 3	4		
Prefix:	SSM:			
	Advand	ced Options		
Call Method:	Order	~		
Busy Detection:	Yes 🗸	Busy Count:	3	
Input Volume:	40% 🗸	Output Volume:	40% 🗸	
Call Progress:	No 🗸	Progress Zone:	US 🗸	
Busy Pattern:		Language:	Default	\checkmark
Answer on Pola	rity Switch:	No 🗸		
Hangup on Pola	rity Switch:	No 🗸		
Auto Fax Detect	tion: 🗌			
	Save	Cancel		

Click [FXO/GSM Trunk] -> [New FXO/GSM Trunk] :

FXO/GSM Trunk Reference:

Item	Explanation
Description	Description for this trunk.
Lines	Check one or more channels (FXO or GSM) to be included in this trunk group
Prefix	The prefix will be added to the dialed number automatically when this trunk is in use.
Advanced Options	Advanced Options for this trunk, e.g.: Call Method, Busy Detection, etc.

Select one or more of the available channels to be used for this trunk group.

Note: each channel can only be included in one trunk group. If no channels appear then all available channels are already defined.

BRI / PRI Trunk

Please set up BRI/PRI trunk similarly to the FXO/GSM trunk settings above.

2.3.2 Outbound Routes

Outbound Routes are used to define which trunk groups are used by a specific extension when placing outbound calls. If you don't allow an extension user to place external calls, please ignore this part.

Please configure on this page: 【Basic】->【Outbound Routes】

WE FOCUS.WE DELIVER		Logout
▶ Home	DialPlans	Move the mouse over a field to see tooltips
 Operator 	DialPlans DialRules	
Basic		
 Extensions 	List of DialPlans New Dial Plan	
Trunks	Default DialPlan Name Rules Options	
 Outbound Routes 	Default, Spy, Conferences, Ringgroups, I DialPlan1 Ivr, Queues, Paging-intercom, Directory,	
Inbound Control	Disa	
Advanced		
Network Settings		
Security		
Report		
System		

You can configure the basic match pattern of outbound routes and create different dial plan on this page. Create as many different dial plans as you need to determine how you need extensions to be allowed to make calls. For example, create "InternalDialPlan" to include all Internal Calling Rules but do not select any outbound dial rules. Select "InternalDialPlan" for all extension users that do not need the ability to make external calls.

Click [DialPlans] -> [New DialPlan] :

New Dial Plan	Х
DialPlan Name: DialPlan3	
Include External Calling Rules No Dial Rules defined. You can click here to create a Dial Rule.	Include Internal Calling Rules Default Spy Conference Ring Groups IVR Call Queues Paging and Intercom Directory DISA
Save Canc	el

You can create one or more DialRules for DialPlans from this page:

	New Di	al Rule	i i i i i i i i i i i i i i i i i i i	x
Rule Na	me:			
PIN	Set: 🗌			
Place this call throu	ugh:			
eda(SIP)		» »		
		<u> </u>		
		←		
		**		
		~~~		
	le Trunks		Selected Trunks	
Custom Patt	ern:			
	Z Any d			
	N Any d			
	X Any d			
5 J			of additional digits	1.6
dialing	ix from the fr	ont an	d auto-add digit	before
	Save	Ca	ancel	

# Reference:

Item	Explanation				
Rule Name	Define the name for the dial rule.				
Pin Set	Input this Pin when you use this dial rule.				
Place this call through	Select one of the trunk groups that have been set up to use for this dial rule				
Custom Pattern	N any digit from 2 to 9				
	Z any digit from 1 to 9				
	X any digit from 0 to 9				
	. One or more digits				
Delete[ ]digits prefix	How many digits will be deleted from what the user dialed to what is actually sent over				
	the trunk. For example, user dialed 94166445775 and you selected to delete 1 digit,				
	then 4166445775 is sent out the trunk.				
Auto-add digit[ ]	If add digit "9", when dial 12345, 912345 will be sent.				

# 2.4 Inbound Call

# 2.4.1 Inbound Routes

Click 【Inbound Control】->【Inbound Routes】

WE FOCUS.WE DELIVER					Logout
▶ Home	General				From VoIP Channels: Set Incoming calls destination those
<ul> <li>Operator</li> </ul>	General	Port DIDs	Number DIDs	DOD Settings	from VoIP channels.
Basic					
Inbound Control	From Analog Channe	ls			
Inbound Routes					
▶ IVR	Distinctive Ring To	ne:			
<ul> <li>IVR Prompts</li> </ul>	Destination:	Goto IVR	👻 working time	e 🕶	
▶ Call Oueues					
	Inbound Control				
	▶ Inbound Routes				
	▶ IVR				
	▶ IVR Prompts				
	► Call Queues				
	▶ Rina Groups				

# General

Distinctive Ring Tone: mapping the custom ring tone file, e.g.: Set distinctive ring tone as "External", the phone will play this ring tone when receiving the call.

#### Note: The phone must support such feature as well.

Select all calls coming in on a specific port (FXO/GSM/VOIP) and select which destination (Extension User, IVR, Queue, Conference Bridge, IVR, etc) should answer those calls. Setting the label will assign this label to be displayed.

# Port DIDs

To have incoming calls from a PSTN trunk port (FXO/GSM trunk) answered by a specific extension user, call queue, conference bridge, or IVR, please configure here: Click [Port DIDs] -> [New Port DIDs] :

	New Pe	ort DID	х
Port:	~	Label:	_
Destination:	Goto Extension	▼ 800(800) ▼	
	Save	Cancel	

1.	Port	Select the trunk group port
2.	Label	Set a label for this port. Incoming calls from this port will display
		the specified label.
3.	Destination	Incoming calls will be answered by the specified destination
		(extension user, call queue, conference bridge, or IVR)

# Number DIDs

If you want to select the destination of inbound calls on PSTN (T1/E1/PRI) or VoIP Trunks based on the incoming DNIS (dialed number or DID). You can specify the DID and destination (user extension, queue, conference bridge, or IVR:

Click [ Number DID] -> [New Number DID] :

		New Number DID	х
	DID Number: Destination:	Goto Extension V 800(800) V Save Cancel	
4.	DID Number	Set DID Number	

# 5. Destination Select the extension for access directly(Extension User/ Call Queue/ conference/ IVR)

#### **DOD Settings**

To configure outbound calls from user extensions to answer with specified destinations (user extension, queue, conference bridge, IVR), please click 【DOD Settings】-> 【New DOD】

		New DOD X	
	DOD Number: Destination:	Goto Extension 💙 800(800) 💙	
		Save Cancel	
1			
6.	DOD Number	Set the DOD (direct outbound dial) number, and use it to match the Caller ID.	
7.	Destination	Outbound calls will access directly to this destination (user extension, queue, conference bridge, or IVR)	

# 2.4.2 IVR

IVR (Interactive Voice Response) or Automated Attendant will allow callers to select from a specific set of options by pressing the selected digit on their telephone dial pad.
Click [Inbound Control] -> [IVR]:

WE FOCUS.WE DELIVER							Logou
▶ Home	IVR						Move the mouse over a field to see tooltips
Operator	List	of IVRs		New IVR			to see toolups
Basic		Extension	Name	Dial other Extension	ns Oj	ptions	
Inbound Control	1	610	working time	Yes	Edit	Delete	
<ul> <li>Inbound Routes</li> </ul>	2	611	closed time	No	Edit	Delete	
▶ IVR							
IVR Prompts							
Call Queues							
Ring Groups							
<ul> <li>Black List</li> </ul>							
Time Based Rules							
Advanced							
Network Settings							
Security							
Report							
System							

Click [New IVR] to create a new IVR:

		New IVR	х
IVR S	Settings		
Nan	ne:	Extension: 612	
Weld	ome Messa	ige	
Pleas	se Select:	prompts V Custom Prompts	
Repe	at Loops:	None 🗸	
	Dial other Ex	xtensions	
Кеур	ress Events	5	
Key	Action		
0	Disabled	~	
1	Disabled	~	- L
2	Disabled	~	
3	Disabled	~	
4	Disabled	~	
5	Disabled	~	
6	Disabled	$\sim$	
7	Disabled	× × × × × × × × × × ×	
8	Disabled	~	
9	Disabled	~	
*	Disabled	~	
#	Disabled	~	

Save Cancel

Item	Explanation		
Name	Enter a descriptive name for the IVR		
Extension	Enter a unique extension or IVR number. This number is used to access the IVR		
	from an internal extension.		
Please Select	Select the IVR prompt that will provide the caller with instructions on what options are		
	available. To configure the prompt in this page: 【IVR Prompt】		
Repeat Loops	Loop times to repeat playing the IVR prompt if the caller does not select an option.		
Dial Other Extension	Allow user to dial other extensions besides of the listed options.		
Keypress Event	Select the available options beside the designated digit.		

# 2.4.3 IVR Prompts

IVR prompts can be recorded by using any extension registered to the PBX or they can be uploaded from the "Upload IVR Prompt" section below.

#### **IVR Prompts**

#### [IVR Prompts]

WE FOCUS, WE DELIVER		Logout
<ul> <li>Home</li> <li>Operator</li> <li>Basic</li> </ul>	IVR Prompts 🗘 IVR Prompts Upload IVR Prompts	Move the mouse over a field to see tooltips
Inbound Control	List of Prompts 🌵 New Voice Delete Selected	
<ul> <li>Inbound Routes</li> </ul>	Name Options	
▶ IVR	🗌 1 prompts Record Again Play Delete 🔮	
<ul> <li>IVR Prompts</li> </ul>	🗌 2 zycoo.gsm Record Again Play Delete 🔮	
Call Queues		
▶ Ring Groups		
<ul> <li>Black List</li> </ul>		
▶ Time Based Rules		
Advanced		
Network Settings		
Security		
Report		
System		

Click [IVR Prompts] ---- [New Voice] to create new IVR prompt:

New Voice	Х
File Name:	
Format: GSM 🗸	
Extension used for recording: 800 🗸	
Record Cancel	

- 1. File Name Define a name for this voice file.
- 2. Format Select the voice format,GSM/WAV(16bit) supported only.
- 3. Extension used for recording: Select the extension which is used for recording the IVR prompt.

Click [Record], the extension will ring, and the prompt can be recorded after picking up the phone.

To hear the existing recording, please click [Play] :

I	Play rec	ord voice	×
Extensio	n used	for playing: 800 🗸	
	Play	Cancel	

Select the extension, click [Play], the selected extension will ring, and you will hear the recorded prompt after picking up the phone.

# Upload IVR prompt

# 【Upload IVR prompt】

ZYCOD					
WE FOCUS.WE DELIVER					Logou
▶ Home	Upload IVR Prompts				Move the mouse over a field to see tooltips
<ul> <li>Operator</li> </ul>		IVR Prompts	Upload IVR Prompts		
Basic				_	
Inbound Control		Upload	IVR Prompts		
<ul> <li>Inbound Routes</li> </ul>	Note: The s	ound file must be wav	(16bit/8000Hz/Single), gsm, s limited in 15MB!	ulaw or alaw!	
▶ IVR					
<ul> <li>IVR Prompts</li> </ul>	Pleas	se choose file to uploa	d:	浏览	
Call Queues		U	Jpload		
<ul> <li>Ring Groups</li> </ul>					
<ul> <li>Black List</li> </ul>					
Time Based Rules					
Advanced					
Network Settings					
Security					
Report					
System					
	I				

CooVox supports custom audio file with wav,gsm,ulaw,alaw format. Recordings must be smaller than 15MB.

# 2.4.4 Ring Groups

A Ring Group (sometimes called a Hunt Group) is a way to ring a collection of extensions by dialing a single extension number. The methodology used to ring that collection of extensions is called the ring strategy. Once the timeout (number of seconds) is reached, the call will then be directed to the "if not answered" or failover destination.

To configure a Ring Group Click [Inbound Control] -> [Ring Groups] -> [New Ring Group]:

	New Ring Group	x
Name:	Strategy: RingAll	$\sim$
	≪≪ ← →	800(SIP) 800 801(SIP) 801 802(SIP) 802 803(SIP) 803 804(SIP) 804 805(SIP) 805 806(SIP) 806 807(SIP) 807
Rin	ig Group Members	Available Channels
	Label: Extension for this ring group: ⁶	
F	Ring (each/all) for lasting time(sec): 2	
	nswered	
⊖ Goto	Extension	
⊖ Goto	Voicemail	
⊖ Goto	Ring Group	
⊖ Goto		
(€) Hang	gup	
	Save	
1.	Name	Define a name for the Ring Group
2.	Strategy	Select "Ring All" or "Ring in order"
3.	Ring Group Members	Select the Ring Group Member from "the Available
		Channels", click 🗧 to add.
4.	If not answered	You can choose to forward the call to extension, voicema ring group, IVR or hang up if not answered.

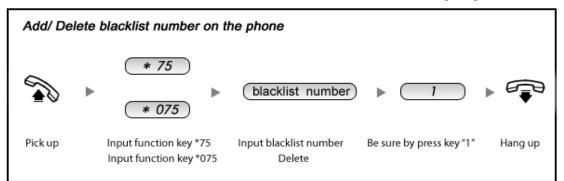
# 2.4.5 Blacklist

The Blacklist feature allows the blocking of specific phone numbers by Callerid. Click [Inbound Control] -> [Blacklist] -> [New Blacklist]

	New Bl	acklist	Х
Blacklist	Number	:	
	Save	Cancel	

Input the caller ID in the space provided. Once configured, future calls from this caller ID will be blocked.

To maintain this list of blocked numbers, see the instructions in the following diagram:

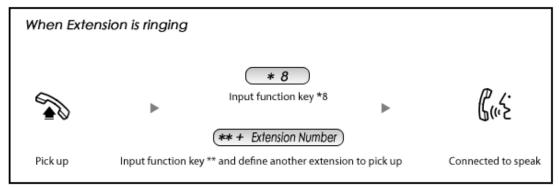


#### Reference:

Item	Explanation
*75	When the registered extension user inputs *75 + blacklist number, this number will be
	added in the list of Blacklist Number.
*075	When the registered extension user inputs *075+blacklist number, this number will be
	deleted in the list of Blacklist Number.

#### 2.4.6 Call Pickup

This feature allows users to answer a call that is ringing on another users extension by pressing the selected feature code on their own phone as shown in the diagram below.



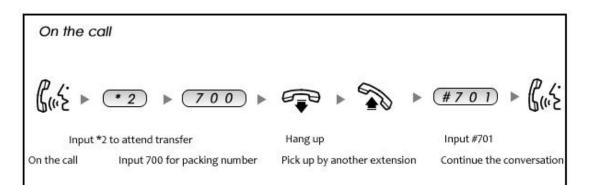
#### Reference:

Item	Explanation
*8	Input function key *8 to pick up the registered extension which is in the ring at random.
	This can be defined in 【Feature Codes】
**	Input function key ** and define another extension to pick up. This can be defined in
	【Feature Codes】.

#### 2.5 During a Call

#### 2.5.1 Call Parking

This feature allows a call to be placed on hold (system will play the parked number, e.g. 701) and then retrieved from any other extension by entering the parked number. After answering the call, to park the call press *2 700 on the telephone dialpad (to transfer the call to the parking lot 700). This will park the call and the system will play the parking space (e.g. 701). To retrieve the call from the parking lot, anyone can pick up any registered extension and dial the parking space number (e.g. 701) and will be connected with the parked caller. Refer to the diagram below:

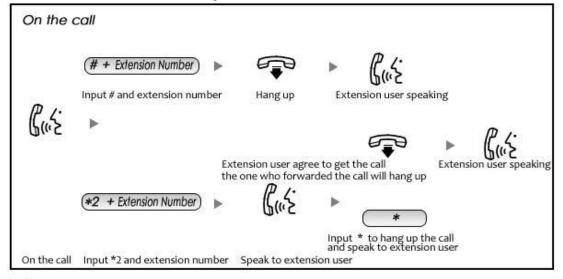


#### Reference:

Item	Explanation
Extension to Dial for	Default Number: 700, Define in [Feature Codes]
Parking Calls:	
What Parking space or	Default Number : 701 - 720. Define in [Feature Codes]
Extension to park calls on	
How many seconds a call	Default is 45 seconds. Define in 【Feature Codes】.
can be parked for	

#### 2.5.2 Call Transfer

This feature allows an incoming call that is answered on one extension to be sent to another user's extension. Refer to the diagram as below:



#### Reference:

Item	Explanation
Blind Transfer	Default is #. Define in 【Feature Codes】
Attended Transfer	Default is *2. Define in 【Feature Codes】
Complete Attended Transfer	Default is *, it can be used when you use *2. Define in 【Feature Code】
Timeout for answer on	Default is 15 seconds. Define in [Feature Codes]
attended transfer	

#### 2.6 User Extension Settings

# 2.6.1 Follow me Settings

This feature allows a call to an extension to be automatically forward to one or more internal extensions or external phone numbers. To allow the user to configure these settings, first the user must be allowed access to the User Web Portal. To do this, select the "Web Manager" box under "Other Options".

Click 【Basic】 -> 【Exte	ension】->【Edit】	the extension	you want to configure.
------------------------	-----------------	---------------	------------------------

		Edit	>
General			
SIP:	$\checkmark$	IAX2:	
Name:	800	Extension:	800
Password:	123456	Outbound CID:	
Dial Plan:	DialPlan1 🗸	Analog Phone:	None 🗸
Voicemail			
Voicemail:	✓	VM Password:	1234
Delete VMail	: 🗆	Email(Fax/Voicemail):	
Other Optio	ns		
Web Manage Allow Being Mobility Exte	Spied: 🗌 Pickup		Waiting:
VoIP Setting	gs		
NAT:  DTMF Mode: Video Optio	RFC2833 ∨	rt: UDP 🗸 Permit IP:	SRTP:
Video Call:			
H.261	H.263 □H.263+ [ : <b>s</b>	H.264	
		.729 G.726 GSM re Cancel	Speex

Check [Web Manager] and [Save]

Then login the Extension Web Panel:

2.6.2 Call Recording

This feature allows users to access calls they have recorded. To configure this setting, please see the diagram below.

ZYCOD		
WE FOCUS.WE DELIVER		Logout
Record List	Call Recording	Move the mouse over a field to see tooltips
<ul> <li>Voicemail List</li> </ul>	Call Recording One Touch Recording	
<ul> <li>Call Forward</li> </ul>		
<ul> <li>Follow Me</li> </ul>	Start Date: Apr V 8 V 2013 V End Date: Apr V 8 V 2013 V Filter	
<ul> <li>Settings</li> </ul>	List of Recording Files	
Send Fax	Caller ID Destination ID Date Options	

## 2.6.3 Call Forward

This feature allows calls to an extension to be automatically forwarded to a specific internal extensions or external phone number. To configure this setting, please see below:

#### Click [Call Forward] :

Forward Settings	
	Always
	Busy
	No Answer
	Save Cancel

#### Reference

	Item	Explanation		
	Always	All incoming calls will be forwarded.		
Status	Busy	Forward when extension is busy.		
	No Answer	Forward when no answer from extension.		

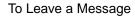
#### 2.6.3 Voicemail

Calls that are not answered have the option to be sent to a voicemail account so the caller can leave a recorded message. Optionally, these recorded messages may be sent to a user's email account.

Click [Basic] -> [Extension] -> [Edit] the extension you want to configure.

		Edit	х
General			
SIP:	$\checkmark$	IAX2:	
Name:	800	Extension:	800
Password:	123456	Outbound CID:	
Dial Plan:	DialPlan1 🗸	Analog Phone:	None 🗸
Voicemail			
Voicemail:		VM Password:	1234
Delete VMail:		Email(Fax/Voicemail):	
Other Option	15		
-	er: 🗹 Agent: Spied: 🗌 Pickup (		Waiting:
	-	Extension Number:	
VoIP Setting	S		
NAT:	Transpo	rt: UDP 🗸	SRTP:
DTMF Mode:	RFC2833 🗸	Permit IP:	
Video Option	15		
Video Call:			
H.261	H.263 🗌 H.263+ [	H.264	
Audio Codec	5		
🖌 alaw 🖌 u	law 🗌 G.722 🗹 G.	729 G.726 GSM	Speex
	Sav	e Cancel	

Please enable [Voicemail] before configuration, and configure [VM Password] and [Email]. If incoming calls are not answered, when the default ring time is over, the system will play: "please leave your message and press the "#"key ". Then voicemail will be sent to the specified mailbox by email.



When No	answe	r				
رد. («ک	Þ	Cut	►	#	۲	Ţ
When No answ pls leave your i		leaving message		Press "#" when finish leaving message		hang up

To Listen to the message using the users desk phone

When there is	s vo	bicemail in extension				
* 6 0	•	(Enter extension number and password)	►	رد. (ریک	►	Ţ
Enter Voicemail box Number *60		Enter extension number and password of voicemail box for this extension	listen	to the me	ssage	hang up

1. Proper Email address is necessary to receive voicemail via email.

2. You must configure the SMTP and Email template. For detail settings, please see the detail configuration guide [Voicemail] in Chapter 3.

# 2.7 Call Center(Call Queues)

# 2.7.1 Create Agent

To allow a user to be considered an agent in a Call Center queue, please check the "Agent" option for that specific user extension.

Click [Basic] -> [Extension] -> [Edit] the extension you want to configure:

Step1: Check [Agent] and [Save]

		Edit	Х		
General					
SIP:	$\checkmark$	IAX2:			
Name:	800	Extension:	800		
Password:	123456	Outbound CID:			
Dial Plan:	DialPlan1 🗸	Analog Phone:	None 🗸		
Voicemail					
Voicemail:	✓	VM Password:	1234		
Delete VMail:		Email(Fax/Voicemail):			
Other Option	15	<u> </u>			
Web Manage	r: 🔽 Agent:	Call	Waiting:		
Allow Being S	pied: 🗌 Pickup (	Group: 1 🗸			
Mobility Exter	nsion: 🗌 Mobility	Extension Number:			
VoIP Setting	5				
NAT:	Transpor	t: UDP 🗸	SRTP:		
DTMF Mode: RFC2833 V Permit IP:					
Video Options					
Video Call:					
□ H.261 □ H.263 □ H.263+ □ H.264					
Audio Codecs					
🗹 alaw 🗹 ulaw 🗌 G.722 🗹 G.729 🗌 G.726 🗌 GSM 🗌 Speex					
Save Cancel					

# Step2: Click [Inbound Control] -> [Call Queues]

ZYCO			
WE FOCUS.WE DELIVER			Logo
▶ Home	Call Queues 1		Move the mouse over a fie to see tooltips
<ul> <li>Operator</li> </ul>	Call Queues 1	all Queues 2 Call Queues	
Basic			
Inbound Control	Call Queue Reference:		
<ul> <li>Inbound Routes</li> </ul>	Queue Number: <u>630</u>	Label:	
▶ IVR	Ring Strategy: Random 🔻		
<ul> <li>IVR Prompts</li> </ul>	Agents:		
<ul> <li>Call Queues</li> </ul>			
Ring Groups			
<ul> <li>Black List</li> </ul>			
Time Based Rules			
Advanced			
Network Settings	Queue Options:	Announcements:	
Security	Agent TimeOut(sec): 15	Caller Position Announcemer	its
Report	Agent filleOut(sec). <u>15</u> Auto Pause	Frequency(sec): 30	
System	Wrap-Up-Time(sec): 10	Announce Hold Time: yes	•
	Max Wait Time(sec): Max Callers: 8 Join Empty Leave When Emp Auto Fill Report Hold Time	Periodic Announcements Repeat Frequency(sec): 0	
	s	ave Cancel	

# Reference

Item	Explanation	
Queue Number	Define an extension number to identify the queue.	
Label	Define the label for the queue.	
Ring Strategy	RingAllRing all available agents until one answers( default)	
	RoundRobin - Starting with the first agent, ring the extension of each agent in turn until	
	the call is answered.	
	LeastRecent - ring the extension of the Agent who has least recently received a call	
	FewestCalls – ring the extension of the Agent who has taken the fewest number of calls.	
	Random – ring the extension of a random Agent.	
	RRmemory RoundRobin with Memory, like RoundRobin above, except instead of the	
	next call starting with the first agent, the system remembers which extension was was	
	called last and begins the round robin with the next agent .	
Agent	Check each agent that is to be a member of this specific Call Center Queue.	

Queue Options:	Announcements:
Agent TimeOut(sec): 15 Auto Pause Wrap-Up-Time(sec): 10 Max Wait Time(sec): Max Callers: 8 Join Empty Leave When Empty Auto Fill Report Hold Time	Caller Position Announcements         Frequency(sec):       30         Announce Hold Time:       yes ▼         Periodic Announcements         Repeat Frequency(sec): 0         Announcements

Item	Explanation
Agent TimeOut(sec)	Specify the number of seconds to rin an agent's extension before sending the call to the
	next Agent (based on Ring Strategy).
Auto Pause	If an Agent's extension rings and the Agent fails to answer the call, automatically pause
	that agent so the stop receiving calls from the queue.
Wrap-Up-Time(sec)	This is the amount of time in seconds that an agent has to complete work on a call after
	the call is disconnected.
	(Default is 0, which means no wrap-up time.)
Max Wait Time(sec)	Calls that have been waiting in the queue for this number of seconds will be sent to the
	""If not answered" destination.
Max Callers	Max number of the callers who are allowed to wait in the queue. (Default is 0, which
	means no limitation.). With this number of callers in the queue already, subsequent
	callers will be sent to the ""If not answered" destination.
Join Empty	Allow callers to enter the Queue when no Agents are available. If this option is not
	defined, callers will not be able to enter Queues with no available agents - callers will be
	sent to the "If not answered" destination.
Leave When Empty	If this option is selected and calls are still in the queue when the last agent logs out, the
	remaining callers in the Queue will be transferred to "If not answered" destination. This
	option cannot be used with Join Empty simultaneously.
Auto Fill	Callers will be distributed to Agent automatically.
Report Hold Time	Report the hold time of the next caller for Agent when the Agent is answering the call.
Frequency(sec)	Repeat frequency to announce the hold time for callers in the Queue.("0" means no
	announcement).
Announce Hold Time	Announce the hold time. Announce (yes), do not announce (no) or announce once
	(once), it will not be announced when the hold time is less than 1 minute.
Repeat Frequency(sec)	Interval time to play the voice menu for callers.("0" mean not to play).
Announcement Prompt	Select a prompt as the Announcements Prompt from the IVR Prompts.

#### Reference:

# 2.8 Conference Bridge

A conference bridge is a virtual meeting room that allows multiple callers to hear and speak to each other. The conference bridge can be protected with a password so only callers with the password can access the conference. The software supports up to three conference rooms. To configure a conference bridge, go to 【Advanced】->【Conference】:

# Conference(Default)

	Conference(Default)	Conference 2	Conference 3
Conferen	ce Number		
	Room Extensior	n: <u>900</u>	
Conferen	ce Password		
	Guest Password Administrator P		

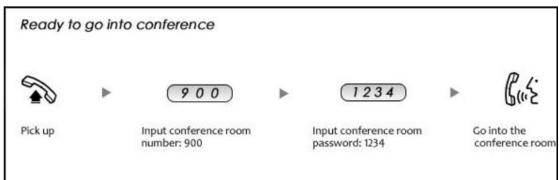
Conference Options	
Conference DialPlan	ialPlan1 🗸
V Pl	ay hold music for first caller
🖌 Er	nable caller menu
🗌 Ar	nnounce callers
C Re	ecord conference
	uiet Mode
	eader Wait

Save Cancel

# Reference:

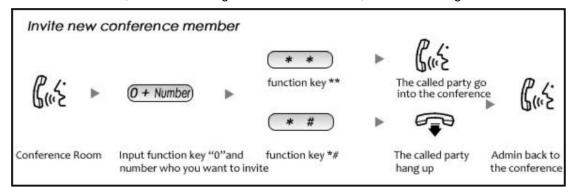
Item	Explanation
Conference Number	The number that internal callers use to access the conference room, the default
	number is "900".
Conference Password	Password for users to access the conference, e.g.:"1234".
Administrator Password	Password for administrator to access the conference.
Conference DialPlan	Use this dialplan to invite other participants.
Play hold music for the first	Check this option to play the hold music for the first participant in the conference until
participant	another participant enters in this conference.
Enable caller menu	Check this option to allow the participant to access the Conference Bridge menu by
	pressing "*" on the dialpad.
Announce callers	Check this option to announce to all Bridge participants that new participant is joining
	the conference.
Record conference	Recorded conference format is WAV.
Quiet Mode	If check this option, all the participants in the conference can hear only, but it is not
	allowed to speak.
Leader Wait	Wait until the conference leader(administrator) entering the conference before
	starting the conference.

To join a conference, refer to the diagram as below:



While in a conference, the administrator can invite new guest (extension user or external number) into the conference. (Default password for admin is 2345)

As an administrator, to invite a new guest to the conference, refer to the diagram as below:



# hapter 3 Advanced

# 3.1 Options

#### General

Default settings for local extension and new extension. Click 【Advanced】->【Options】->【General】:

General				Default Settings for New
General	Global Analog Settings	Global SIP Settings		<b>User:</b> Set up the default Settings for New User, When you create a new extension will use the configuration
Local Extension Settin	ngs		<b>^</b>	
	Operator Extension: <a a="" href="mailto:&lt;/a&gt;&lt;br/&gt; Global RingTime Set(sec): &lt;a href=" mailto:3<="">  Enable Transfer: <a href="mailto:sec"> </a>  Enable Transfer: <a href="mailto:sec"> </a>  Enable Music On Ringback:   Record Format: <a href="mailto:GSM"> </a> </a>	)		
Default Settings for N	ew User			
Agent: Voic NAT: Voic <b>Audio Codecs</b>	IAX2: ☐ Web Manager: email: ☑ Delete VMail: sport: UDP ♥ SRTP: ☐ G.722 ☑ G.729 ☐ G.726 ☐	VM Password: 1234		
Extension Preference	5			
	User Extensions 800	to 899		

#### Reference

Item	Explanation
Operator Extension	Set extension number for Operator.
Global RingTime Set	Set RingTime for every extension.
Enable Transfer	Check to enable Transfer.
Enable Music On Ringback	Check to enable Music On Ringback.
Record Format	Set the format for recording files. (GSM/WAV only)
Defaut Setting for New User	Check to enable the default settings.
Extension Preferences	Set the rule for extensions.

# Global Analog Settings Click [Advance] -> [Options] -> [Global Analog Settings]:

Global Analog Settings

	General	Global Analog Settings	Global SIP Settings
Caller ID	Detect		
		Caller ID Detection: 🔽 Caller ID Signalling: Bell-US Caller ID Start: Ring CID Buffer Length: 2500 🗸	<ul> <li>▼</li> </ul>

General	
Opermode: FCC	
ToneZone: United States	
Relax DTMF:	
Echo Cancel: 🔽	
Echo Training: <u>no</u> (yes/no/number)	
Busy Detection:	
Busy Count:	

#### Reference:

Item	Explanation		
Caller ID Detection	Enable/Disable Caller ID Detection		
Caller ID Signaling	Select the mode of Caller ID Signaling.		
Caller ID Start	RingCaller ID start before ring.		
	PolarityCaller ID start when polarity reversal starts.		
CID Buffer Length	Default CID Buffer Length		
Opermode	Set the Opermode for FXO/GSM Ports.		
ToneZone	Select the ToneZone in your country.		
Relax DTMF	Enable/Disable Relax DTMF inspection.		
Echo Cancel	Enable/Disable Echo Cancel		
Echo Training	Set Echo Training (default unit: ms)		
Busy Detection	Enable/Disable Busy Detection.		
Busy Count	Count the Busy Detection. It will be active when enable Busy Detection.		

# **Global SIP Settings**

【Global SIP Settings】 is appropriate for advanced administrators. Please contact our technical support department before modifying anything in this section.

# 3.2 Voicemail

# Click [Advanced] -> [Voicemail] -> [General]:

General

	General	Email Settings	
VoiceMail Reference			
Max Greetin Dial "0" for C	g Time(sec): Operator:	<u>30</u>	

Voice Message Options	
Message Format:	WAV (16-bit) 🔽
Maximum Messages:	100 💌
Max Message Time(min):	2
Min Message Time(sec):	5

Playback Options		
	Say Message CallerID	
	<ul> <li>Say Message Duration</li> </ul>	
	Play Envelope	
	Allow Users to Review	

# Reference

Item	Explanation		
MaxGreeting Time(sec)	Maximum recording length for voicemail greetings		
Dial "0" for Operator	Select this option to allow callers to press Dial "0" to transfer out of voicemail to		
	the Operator.		
Message Format	Save the voice message as this format, WAV(16-bit) or Raw GSM.		
Maximum Messages	Maximum voicemail messages to be allowed to leave.		
Max Message Time(min)	Maximum Time for each message to be allowed to leave.		
Min Message Time(sec)	MinimumTime for each message. The message will be deleted automatically		
	the time is less than the min message time.		
Say Message CallerID	Play the Caller ID of the caller before playing the voice message.		
Say Message Duration	Play the message duration before playing the voice message.		
Play Envelope	Play the date, time and caller ID for the voicemail message.		
Allow Users to Review	Check this option to allow users to review the voice message.		

# Click 【Advance】-> 【Voicemail】-> 【Email Settings】

mail Settings			
	General	Email Settings	
	Template for	· Voicemail Emails	
	🗹 Attach voicemail t	o email	
Sender Name	e test		
From	n pbx@zycoo.com		
Subjec	t New Voicemail from s	{VM_CALLERID}	
Message		you received a message 1_DATE} from,(\${VM_	
	Save	Cancel	
Template Varia	\${VM_DUR} : The \${VM_MAILBOX} :	tipient's first name and last duration of the voicemail me The recipient's extension The Caller ID of the person	essage

#### Reference:

Item	Explanation		
Attach voicemail to Email	The voicemail will be sent as attachment to the user's Email.		
Sender Name	The sender's name will be displayed when you receive the Email.		
From	Mailbox to send email		
Subject	Subject of the Email.		
Message	Input the Email template.		

# 3.3 SMTP Settings

To allow email messages to be sent to users with attached voicemail and faxmail messages, the SMTP settings need to be configured.

Click [Advance] -> [SMTP Settings]:

SMTP Settings

SMTP Settings:	
SMTP Server:	
Port: 25	
SSL/TLS:	
🗹 Enable SMTP Authe	entication
Username:	
Password:	
Send Te	est
Save	ancel

# Reference

Item	Explanation		
SMTP Server	You must set SMTP Server address or domain connected to the CooVox IP		
	PBX, which is used for sending the voice message to Email.		
Port	Port number for SMTP server. Default is 25, and it will be changed to 465 when		
	you enable SSL/TLS.		
SSL/TSL	Enable SSL/TLS.		
Enable SMTP Authentication	If your SMTP server needs authentication, please enable this option, and		
	configure the following.		
Username	Input username of your Email.		
Password	Input password of your Email.		

Click [Send Test] after configuration, the following diagram will be displayed to ask you to input the Email for receiving.

Send Test	Х
Email Address:	
Send Cancel	

Specify the email address and click [Send] -to send the test email. Verify that email was successfully sent or not. If no email was received, please modify the SMTP settings and retry.

## 3.4 Email to Fax

Users can send fax by Email. Please configure as below. Click 【Advanced】-> 【Email to Fax】

Email to Fax		
	Enable: Username: Password: IMAP Server: SSL/TLS: Access Code:	
	Dial Plan:	ve Cancel

Check "Enable", input username, password and IMAP Server(server format: imap.XX.com), select the DialPlan, then "Save" and "Activate".

# Practical Case:

To Send a fax to telephone number 85337096: In DialPlan 1, there is prefix "9" before the telephone number; you need input the 【Access Code】: 985337096 and make this the subject when sending Email. Then the fax will be sent by Email as attachment.

If you need dial the extension when sending fax, e.g.: fax number: 85337096 ext.800, you need use the 【Access Code】: 985337096-800 as subject.

#### 3.5 Music Settings

Management of Music on Hold, Music on Ringback, Music on Queue. [Music Settings]:

	Music Settings	Music Management		
Music On Hold Refe	erence			
	Music:	Music 1 💌		
Music On Ringback	Deference			
MUSIC OII KINGDACK	Reference			
	Music:	Music 2 💌		
Music On Queue Reference				
	Music:	Music 3 💌		
	Save	Cancel		

Select the different music file for different Music.

### [Music Management]

	Music Settings	Music Management	
Music Management			
	Select Music Director Files:	y: Music 1 V Load	
Upload Music File			
Note: The so		y: Music 1 v 6bit/8000Hz/Single), gsm, imited in 15MB!.	ulaw or alaw!
Pleas	e choose file to upload	:	浏览
	Uţ	bload	

Item	Explanation	
Select Music Directory	Select which Music Directory you wish to load.	
File	Display music name under the music file, you can delete it.	
Select Music Directory	Select the file where you want to save your uploaded music.	
Please choose file to upload	Select the music you want to upload.	
	Note: music file must be WAV(16bit/8000Hz/Single), GSM, ulaw or alaw,	
	and less than 15MB.	

# 3.6 DISA

This feature allows an authorized user to call into the PBX and then place an outbound call using another trunk. For example, an employee working out of the office who needs to make an international call using trunks connected to the PBX. By calling the DISA number, after PIN authentication, the caller hears dial tone and can dial the call.

Please configure as below. Click [Advance] -> [DISA] -- [New DISA]

New DISA	х
Name:	
PIN Set: Without PIN	
Record in CDR:	
Response Timeout(sec): 5	
Digit Timeout(sec): <u>3</u>	
Extension for this DISA(Optional):	
Allow Outbound Route Select DialPlan	
Save Cancel	

#### Reference

Item	Explanation	
Name	Define a name for DISA.	
PIN Set	User will be prompted to input this number when PIN Authentication is	
	needed.	
Record in CDR	Check to record.	
Response Timeout(sec)	The maximum time for waiting before hanging up if the dialed number is	
	incomplete or invalid. Default is 10 seconds	
Digit Timeout(sec)	The maximum interval time between digits when typing extension number.	
	Default is 5 seconds.	
Extension for this DISA(Optional)	If you want to access DISA by dialing an extension, you can define an	
	extension number for this DISA.	
Select DialPlan	Select the DialPlan for this DISA.	

# 3.7 Follow Me

This feature allows callers to automatically be forwarded to one or more internal extensions and/or one or more external phone numbers when the call is not answered at the primary extension.

Please configure as below: Click [Advanced] -> [Follow Me] -> [New Follow Me] :

	New Follow Me	x
Extension:	~	
Ring lasting for	20 seconds	
Follow Me List:		
	Save Cancel	

Select an extension, set the ring duration, and add the numbers in the Follow Me List; [Save] and [Activate].

List Format: Extension Number, Ring Duration

- E.g.: 806,30
  - 808,20

806 rings, after 30 seconds, the call is going to 808

#### [Follow Me Options]

Follow Me Options		
Playback the incoming status message prior to starting the follow-me step(sec).		
$\square$ Record the caller's name so it can be announced to the callee on each step.		
Playback the unreachable status message if we've run out of all steps or the callee was set not to be reachable.		
Save		

#### 3.8 Paging and Intercom

This feature allows setting up a Paging group so when the Paging extension is dialed, the listed extensions allow the caller to speak through the speaker phone. The extensions in the Paging group must use phones that support this feature. If the Duplex option is selected, and the listed extensions use phones that support Duplex, then all the phones in the paging group will be able to have two-way conversations.

I	New		х
Paging Extension: <u>660</u> Description:		800(SIP) 800 801(SIP) 801	<
		802(SIP) 802 803(SIP) 803 804(SIP) 804 805(SIP) 805 806(SIP) 806 807(SIP) 807	•
Paging Group Members Duplex:		Device List	
Save	Ca	ncel	

# Click [Advanced] -> [Paging and Intercom] -> [New Paging Group] :

# Reference:

Item	Explanation	
Paging Extension	Define an extension for this Paging Group.	
Description	Define a name for this Paging Group.	
Paging Group Members	Selected devices in this Paging Group.	
Device List	Select device(s) here to Paging Group.	
	Paging is typically one way for announcements only. Checking this will make the paging	
Duplex	duplex, allowing all phones in the paging group to be able to talk and be heard by all.	
	This makes it look like an "instant conference".	

# 3.9 PIN Sets

This feature allows an administrator to specify a list of PIN codes in a PIN Set. An Outbound Route can be specified that a valid PIN code from a selected PIN Set must be used in order to have access to a give Outbound route (e.g. for long distance or international calling).

Please configure as below. Click [Advanced] -> [PIN Sets] -> [New PIN Set] :

New PIN Set	х
PIN Set Name:	
PIN List:	
Save Cancel	

1.	PIN Set Name	Define the name for this PIN Set.

2. PIN List Define PIN codes in this list.

# 3.10 Call Recording

This feature allows an administrator to enable Call Recording to record incoming and/or outgoing calls related to the specified extension.

Please configure as below:

Click [Advanced] -> [Call Recording] -> [New Call Recording] :

New Call Recording	х
Extension:	
Call Recording Time	
Always Recording: Start Time: Start Day: End Day: Start Day:	
Call Recording Settings	
Inbound Record: Outbound Record: Save Cancel	

# Reference:

Item	Explanation	
Extension	Define an extension for recording.	
Call Recording Time	Set the time to record.	
Inbound Record	Check to record inbound calls.	
Outbound Record	Check to record outbound calls.	

#### 3.11 Speed Dial

This feature allows setting up system wide speed dial numbers that translate a feature code (*99) plus a two-digit code (00-99) into an external phone number.

Please configure as below.

Click [Advanced] -> [Speed Dial] -> [New Speed Dial] :

New Speed Dial	х
Notice:Don't forget to add the outbound dial prefix if you would like to dial an outside number	
Source Number:	
Destination Number:	
Save Cancel	

E.g.: prefix is *99, speed number is 00, destination telephone number is 85337096. When dial *9900, the call is going to 85337096 automatically.

## 3.12 Smart DID

Smart DID: After extension user makes an outbound call, the call is ringing back to CooVox IP PBX, and directed to the extension who made the last call. Please configure as below.

Click [Advanced] -> [Smart DID] :

Smart DID	
Enable: Cancel	

Smar	t DID Rules List		New Smart DID Rule	2
	Pattern	Strip	Prepend	Options
1	х.			Edit Delete

Check "Enable" and "Save" to make this function activate.

Click [New Smart DID Rule] to display the following diagram:

New Smart DID Rule	х
Pattern:	
Strip:digits before dialing	
Prepend:before dialing	
Save Cancel	

Input the pattern and define how many digits need to be stripped or prepend, then click "Save"--"Activate".

#### 3.13 Callback

This feature allows an external caller to place an inbound call to the CooVpx IP PBX. The inbound call will be disconnected and subsequently the PBX will place an outbound call back to this number and forwarded to defined destination after the call is connected.

Please configure as below.

Click (Advanced) -> (Callback) :

Callback Number Settings				
Prep	Plan:			
List of Callback Number	New Callback Number			
Callback Number	Destination Options			
No Callback Number defined!				

Enable this function; select DialPlan, and define the callback rule (strip digits or prepend prefix).

Click [New Callback Number] to add callback number.

New Callback Number	х
Callback Number:	
Destination: Goto Extension 👻 800(800) 👻	
Save Cancel	

Input callback number and define the destination.

# 3.14 Phone Book

When incoming call Caller ID matches the number in the phone book, the name of matched number will be displayed. Please configure as below.

Click [Advanced] -> [Phone Book] :

Phone E	look		Create Co	ontact	
Name:	Search	Show All		Delete Selec	ted
	Name		Phone Nun	nber	Options
□ 1	bill	888			Edit Delete
3. 4. Click 【C		earch by name contacts will be di e the following dia		e following list.	
	E	dit	3	×	
	Name: Phone Number: Save				
5.	Name	Input contact's n	•	• • • •	
6.	Phone Number	Input Phone Nur	mper of contac	ct. (IDD Number	' is available).

# 3.15 Feature Codes

Click [Advanced]->[Feature Codes] to see the following diagram, and you can define the code for each feature.

Feature Codes Management				
Call Parking				
Extension to Dial for Parking Calls: 700				
Extension Range to Park Calls: 701-720				
Call Parking Time(sec): 45				
Parking Hints:				
Pickup Call				
Pickup Extension: *8				
Pickup Specified Extension: **				
Transfer				
Blind Transfer: #				
Attended Transfer: *2				
Disconnect Call: *				
Timeout for answer on attended transfer(sec): <u>15</u>				
One Touch Recording One Touch Recording: *1				
Call Forward				
Enable Forward All Calls: *71				
Disable Forward All Calls: *071				
Enable Forward on Busy: *72				
Disable Forward on Busy: *072				
Enable Forward on No Answer: *73				
Disable Forward on No Answer: *073				
Disable i of ward off No Answer				

#### Reference:

Item	Explanation
Extension to Dial for Parking Calls	Define an extension for parking calls.
Extension Range to Park Calls	Define the extension range for parking calls. (e.g.: 701-720)
Call Parking Time(sec)	Define the time for parking calls. CooVox IP PBX will return the call to the
	extension after this time limit has expired.
Pickup Extension	This feature code will pick up a call given that the callers extension and the
	ringing extension are in the same pickup group and call group.
Pickup Specified Extension	This feature code allows a caller to Pickup a call ringing on the specified
	extension. Default: Dial**+extension number to pickup the specified
	extension.
Blind Transfer	To Allow unattended or blind transfer while on a call based on the following
	steps:
	1. While on a call with caller "A", the user dials the blind transfer key
	sequence (in this case "#"). The system places the original call with "A" on
	hold, says "Transfer" then gives a dial tone.
	2. dial the transferee extension or phone number you wish to transfer the
	call to "B" and hangup the phone.
	3. The original caller "A" is transferred immediately to the transferee "B" and
	"B" sees the callerid of "A".
Attended Transfer	To Allow attended or supervised transfer while on a call based on the
	following steps:
	1. While on a call with caller "A", the user dials the supervised transfer key
	sequence (in this case "*2"). The system places the original call with "A" on

	hold, says "Transfer" then gives a dial tone.
	2. dial the transferee extension or phone number you wish to transfer the
	call to "B" and wait for "B" to answer the phone and talk to "B" to introduce
	the call.
	1. If "B" does not wish to take the call, "B" can hang up the call and you are
	returned to your call with "A".
	2. If "B" wishes to accept the call, you hang up the phone and caller "A" is
	transferred to the transferee "B".
	3. If the call goes to voicemail or you wish to abort the transfer, simply press
	the "disconnect call" key sequence (in this case "*") and the transfer will be
	aborted and you will be back on the call with the original caller "A".
Disconnect Call	Disconnect the current transfer call (for Attended transfer).
Timeout for answer on attended	Set the timeout value
transfer (sec)	
One Touch Recording	Configure the function key for One Touch Recording
Call Forward	Enable/Disable Call Forward and the settings of function keys for different
	forward modes.
Do Not Disturb	Enable/Disable "Do Not Disturb"
Spy	Configure the function keys for spy modes.
Blacklist	Add/Delete blacklist number.
Voicemail	Configure the function keys for entering voicemail and check extension
	voicemail.
Invite Participant	In conference, the administrator can invite people into the conference by
	dialing "0". After pressing "0", you will get dialtone, and you can dial to invite
	people. After the call is connected, please press ** to direct the people into
	the conference, or *# to hang up the current call and return to the
	conference.
Create Conference	During the call, you can dial *0 to forward to the conference with the callee.
Return to conference with participant	In conference, the administrator can dial "0" to invite people into the
	conference. After pressing "0", you will get dialtone, and you can dial to
	invite the participant; when the call is connected, dial "**" to return to the
	conference with invited participant.
Return to conference without	In conference, the administrator can dial "0" to invite people into the
participant	conference. After pressing "0", you will get dialtone, and you can dial to
	invite the participant. When the call is connected, you can dial "*#" to hang
	up and return the conference yourself.
Pause Queue Member Extension	Pause the agent, and the agent cannot receive the call.
Unpause Queue Member Extension	Unpause the agent, and the agent can receive the call.
· · ·	
Unpause Queue Member Extension Others	Unpause the agent, and the agent can receive the call. Function key for Intercom/ Paging/ Directory

#### 3.16 IP Phone Provisioning

When many IP Phones are needed, please record the MAC, extension number, and username of each phone according to the format (please take reference of the auto provision script file model for details), then import the format file, once the phone is connected to the local

network, it will get the extension number and password automatically. There are two operation methods to fulfill this function, please see details as below.

# **Enable DHCP service**

Click [System] -> [Network Advanced] -> [Enable] DHCP Server in the following diagram:

DHCP Server Settings			
	Enable:	V	
	Start IP:	192.168.1.101	
	End IP:	192.168.1.200	
	Subnet Mask:	255.255.255.0	
	Gateway:	192.168.1.1	
	Primary DNS:	61.139.2.69	
	Lease Time(min):	1440	
	TFTP Server:		
	Save	Cancel	

Then Click [Advanced] -> [Phone Provisioning] -> [New Phone] :

New Phone				Х	
General					
	Enable:	<b>~</b>			
	Manufacturer:		*	Type: 🔽	
	MAC:				
Line					
Line1	Extension:	*	Labe	el:	
		Save	Cancel		

Enable Phone Provisioning in [Basic], select the IP Phone manufacture, input MAC of the phone, and select the extension for provisioning.



# Chapter 4 Network Settings

## 4.1 Network

You can configure the WAN Port, and define the Virtual Interface.

# Click [Network Settings] -> [Network] -> [IPv4 Settings] :

	IPv4 Settings	S	IPv6	Settings	VLAN	Settings	
WAN Port	Setup						
		IP As	sign:	Static	~		
		Hostna	ame:	IPPBX			
		IP Add	ress:	192.168.1	.114		
		Subnet	Mask:	255.255.2	55.0		
		Gatew	ay:	192.168.1	.1		
		Primar	y DNS:	8.8.8.8			
		Alterna	te DNS:				
Virtual Int	erface						
	IP AddressV1:			Subnet	MaskV1:		
Γ	IP AddressV2:			Subnet	MaskV2: _		
			Save	Cancel			

#### Reference

Item	Explanation			
IP Assign	Static/ DHCP/PPPoE supported.			
Virtual Interface	Define the virtual interface for WAN Port.			

# Click [Network Settings] -> [Network] -> [IPv6 Settings]

	IPv4 Settings	IPv6 Settings	VLAN Settings					
WAN Port Setup								
		Enable:						
	IF	v6 Address:						
	P	refix Length:						
		Gateway:						
	Р	rimary DNS:						
	Alt	ernate DNS:						
		Save						

I	Pv6 Reference:	
	Item	Explanation
	Enable	Enable IPv6, define the IPv6 address, gateway, and DNS.

# Click [Network Settings] -> [Network] -> [VLAN Settings] :

	IPv4 Settings	IPv6 Se	ttings	VLAN	l Settings	
VLAN 1						
		Enable: VLAN ID: IP Address: ubnet Mask:	□ 			
VLAN 2						
		Enable: VLAN ID: IP Address: ubnet Mask:	□ 			
		Save	Cancel			

# VLAN Reference:

Item	Explanation
Enable	Enable VLAN, define the VLAN address and VLAN ID.

# 4.2 Static Routing

Click [Network Settings] -> [Static Routing] :

New Static	Routing	х
Destination Network:		
Subnet Mask:		
Gateway:		
Save	Cancel	

Item	Explanation		
Destination	Set destination network for static routing.		
Subnet Mask	Set subnet mask of the destination network.		
Gateway	Define the gateway accessing the destination network.		

Click [Network Settings]->[Static Routing]->[Routing Table], the current routing information will be displayed as below:

Routing Table

#### 4.3 VPN Server

CooVox IP PBX supports three kinds of VPN servers: L2TP/PPTP/OpenVPN. Click [Network Settings] -> [VPN Server]:

	VPN Server	VPN Users Management
Server		
	C L2TP	• PPTP O OpenVPN
Enable:		
Remote	IP:	192.168.11.1 - 12
Local IP	:	192.168.11.90
Primary	DNS:	61.139.2.69
Alternat	te DNS:	8.8.8.8
Timeout	(sec):	120
Authent	tication Method:	🗆 chap 🗖 pap 🗹 mschap 🗹 mschap-v2
Enable	mppe128:	
Debug:		
	S	Save Cancel

#### Reference:

Item	Explanation		
VPN Server Mode	Three kinds of VPN servers L2TP/PPTP/OpenVPN supported $\ (\ Only \ one \ mode \ can \ be$		
	enabled simultaneously)		
Enable	Enable/Disable VPN Server		

When the mode is L2TP or PPTP VPN server, click [Network Settings] -> [VPN Server] -> [VPN Users Management]:

	VPN Server	VPN Users Management	
List of VPN User	s	New VPN User	
Username		Availability	Options
1 test1		yes	Edit Delete

This page is used for management of VPN username and password.

When the mode is OpenVPN server, click [Network Settings] -> [VPN Server] -> [OpenVPN Certificate Download]:

	VPN Server	OpenVPN Certifica	te Download
List of Open\	PN Certificate	New Certificate	Delete Selected
	ertificate Name		Options
🗌 1 Clie	ent1.tar		Download Delete

This page is used for management of OpenVPN certificate file.

# 4.4 VPN Client

CooVox IP PBX supports four kinds of VPN Clients: L2TP /PPTP /OpenVPN /N2N Click [Network Settings] -> [VPN Client]:

VPN Client	
○ L2TP ●	PPTP O OpenVPN O N2N
Enable:	<b>v</b>
Enable 40/128-bit encryption	for MPPE: 🗌
Server Address:	192.168.100.100
Username:	admin
Password:	•••••
	Save Cancel

Status:pptp client Connect: ppp1 <--> /dev/pts/2
 pptp client sh: can't execute '/sbin/ip': No such file or directory
 pptp client sh: can't execute '/sbin/ip': No such file or directory

#### Reference:

Item	Explanation
VPN Client	Four kinds of VPN Clients supported: L2TP/PPTP/OpenVPN/N2N (Only one mode can
	be enabled simultaneously)
Enable	Enable/Disable VPN Client

## 4.5 DHCP Server

	DHCP Server	DHCP	P Client List	Static MAC	
DHCP Serv	ver Settings				
	Enable:				
	Start IP:		192.168.1.101		
	End IP:		192.168.1.200	)	
	Subnet N	lask:	255.255.255.0	)	
	Gateway	/:	192.168.1.1		
	Primary	DNS:	61.139.2.69		
	Lease Tir	me(min):	1440		
	TFTP Ser	rver:			
		Save	Cancel		

Click [Network Settings] -> [DHCP Server]:

# Click [Network Settings] -> [DHCP Server] -> [DHCP Client List] :

	DHCF	9 Server	DH	CP Client List	Sta	tic MAC	
DHCP Clien	t List:						
6c:3e:6d:	∋0:f2:00	IP Addres 192.168.1 192.168.1	.101	Host Name iPhone		Expires in expired expired	n
		192.168.1 192.168.1		hnteki-iPhone		expired expired	
78:e4:00: 68:a3:c4:	8e:c3:99 ef:5d:8b	192.168.1 192.168.1 192.168.1 192.168.1	.106	DPVYE1J0WCAAC LBSZLACHCIC HBWang MW150R	7I	expired 22:10:25 1 days 00 00:00:57	:00:0

This page is used to display DHCP Client address and related information.

When DHCP Server distributes address, the Client's MAC address is associated with the IP address, and then the device will get the same IP address every time.

Click [Network Settings] -> [DHCP Server] -> [Static MAC] -> [New Static MAC] :

New	/ Static MAC	х
MAC Address: IP Address:	Save Cancel	

# 4.6 DDNS Settings

After setting DDNS (Dynamic Domain Network Server), CooVox IP PBX settings will be visited remotely. Click [Network Settings] -> [DDNS Settings]:

DDNS Settings	
Enable: DDNS Server Username: Password: Domain:	: dyndns.org

Status:Disabled

CooVox supports DDNS provided by Dyndns.org / No-ip.com / zoneedit.com.

#### 4.7 SNMPv2 Settings

SNMP(Simple Network Management Protocol): Used for remote management. Click [Network Settings] -> [SNMPv2 Settings]:

SNMPv2 Settings

Read Only		
R	Enable: O Community: RO Network:	
Read and Write		
R	Enable: W Community: RW Network:	
	Save	Cancel

#### Reference

Item	Explanation
Enable	Enable "Read Only" of SNMP
RO Community	Define the name of RO Community of SNMP
RO Network	Define network of RO

## 4.8 Trouble Shooting

You can ping other network device through CooVox IP PBX and track network routing by command "Traceroute" .

Click [Network Settings] -> [TroubleShooting] :

Troubleshooting

	Ping	Traceroute
Ping 192.168.1.1 P	ackets: 4	Run Stop
PING 192.168.1.1 (192.1 64 bytes from 192.168.1 64 bytes from 192.168.1 64 bytes from 192.168.1 64 bytes from 192.168.1	1.1: seq=0 1.1: seq=1 1.1: seq=2	ttl=64 time=1.677 ttl=64 time=0.964 ttl=64 time=1.057
192.168.1.1 ping st 4 packets transmitted, round-trip min/avg/max	4 packets	received, 0% pack

# Chapter 5 Security

# 5.1 Firewall

# Click [Security] -> [Firewall]

Command: iptables		Run		
Result:				
IP Tables List:				
Chain INPUT (policy ACCEPT) target prot opt source	destinatio	n		
Chain FORWARD (policy ACCEPT) target prot opt source destinat		n		
Chain OUTPUT (policy ACCEPT) target prot opt source	destinatio	n		
Iptables Command:				
Check iptables list	ip	tables -L -n		
Clear iptables list		iptables -F		
Deny an IP (192.168.0.3)		iptables -A INPUT -s 192.168.0.3 -j DROP		
Deny every IP to access 80 port		iptables -A INPUT -p tcpdport 80 -j DRO		
Deny IP (192.168.0.3) to access 80 port		iptables -A INPUT -s 192.168.0.3 -p tcp dport 80-j DROP		

# 5.2 Service

[Service] : settings of SSH/FTP and HTTP Port. Click [Security] -> [Service] :

ervice Settings
Enable SSH: 🗹 Port:22
Enable FTP: 🔽 Port:21
HTTP Port: 80
Save Cancel

Enable SSH to login background management system through SSH. Enable FTP to allow uploading files to system through FTP.

# Chapter 6 Report

# 6.1 Record List

Check recordings of specified extension or conference here, or delete the recording file. **[**Record List**]** :

	Call Recording	Conference	One Touch Recordi	ng
Extension: 802 V Delete				
Start Da	te: Apr 💌 23 💌 201	13 👻 End Date: A	apr 💙 23 💙 2013 💙	Filter
List of R	ecording Files		Delete Selected	
	Caller ID De	estination ID	Date	Options
【Confer	ence】:			
	Call Recording	Conference	One Touch Recordin	g
Start Date: Apr v 23 v 2013 v End Date: Apr v 23 v 2013 v Filter				

Delete Selected

Delete All

Options

# [One Touch Recording]

**List of Conference Record Files** 

Conference Room

	Call Recording	Conference	One Touch Recordin	g
Extension: Delete				
Start Date: Apr v 23 v 2013 v End Date: Apr v 23 v 2013 v Filter			Filter	
List of Recording Files Delete Selected				
	Caller ID D	estination ID	Date	Options

Date

# 6.2 Call Logs

Check call logs by caller ID or callee ID. Click [Report] -> [Call Logs] :

Call Logs				
Start Date:	Apr 🕑 23 💙 2013 💙	Field: Caller ID		Filter
End Date:	Apr \star 23 \star 2013 \star		Download	Delete
Call Start	Caller ID	Destination ID Acco	ount Code Duration(sec)	Disposition

# 

Duration in the call logs is not real charged duration. If you need billing, PSTN must support polarity reversal function, and meanwhile, you must configure relevance parameters of polarity reversal in trunk configuration for the CooVox IP PBX.

# 6.3 System Logs

# Click [Report] -> [System Logs], you can download/ delete the system logs.

Save

System Logs		
	Enable System Log: Enable PBX Debug Log:	

Cancel

List	of Lo	ogs ゆ	Download Selected	Delete Selected	
		Name	Туре	Options	
	1	login201303.log	Login Log	Delete	Download
	2	login201304.log	Login Log	Delete	Download
	3	pbx20130311.log	PBX Log	Delete	Download
	4	pbx20130313.log	PBX Log	Delete	Download
	5	pbx20130315.log	PBX Log	Delete	Download
	6	pbx20130319.log	PBX Log	Delete	Download
	7	pbx20130320.log	PBX Log	Delete	Download

# Chapter 7 System

# 7.1 Time Settings

Time settings for CooVox system. The system supports either NTP or Manual Time Set.

# 【NTP】:

Time Settings				
	6	Î NTP	C Manual Time Set	
	NTP Server: Time Zone:	pool.ntp.org Asia/Chongqi		~

## Reference:

Item	Explanation
NTP Server	Define the NTP Server. You can input the IP address or domain of this server,
	whether it's local or remote. Default server is pool.ntp.org. Be aware that the
	CooVox IP PBX needs to be able to connect to an NTP server to properly
	function.
Time Zone	Select your time zone so that the system will set time based on the time zone.

#### [Manual Time Set]:

#### Time Settings

0	NTP    Manual Time Set
Year:	(YYYY, eg: 2010)
Month:	(MM, eg: 05)
Day:	(DD, eg: 08)
Hour:	(HH, eg: 09)
Minute:	(MM, eg: 30)
Sy	nchronize with current PC time Sync

After entering Year/ Month/ Day/ Hour/ Minute, then save and activate.

Or, you can click **[**Sync] to synchronize with current PC time.

# 7.2 Data Storage

When you need mass storage of recording files, voicemails, call logs, etc, you can upload these files to FTP server through FTP Data Storage based on the specified time frequency Click [System] -> [Data Storage] :

	Data Storage	Data Storage Log			
FTP Data Storage	FTP Data Storage				
		Enable:			
	Serve	r Address: 192.168.1.9	_		
	ι	Jsername: a	_		
	Password: •				
	Directory:				
Aut	comatically upload freque	ency(day):			
	Time of automatica	lly upload: 💌 : 💌			
Forcibly uplo	ad when the flash storag	ge is over: 💙			
	Save	Cancel			
Status: Disabled					

#### Reference

Item	Explanation
Enable	Enable FTP Data Storage.
Server Address	Set FTP server address (IP address or domain).
Username	Username for login FTP.
Password	Password for login FTP.
Directory	Define a directory used for storage on FTP server.
Automatically upload frequency Define frequency by days to upload the data.	
(day)	
Time of automatically upload	Define the time to upload the data.
Forcibly upload when the flash	Forcibly upload data when flash storage is over the percentage value.
storage is over	

# Check from [Data Storage Log]:

	Data Storage	Data Storage Log	
Data Storage Log		Refresh Clear	

Click 【Refresh】 to refresh data storage log. Click 【clear】 to clear data storage log.

# 7.3 Management

[Management] is used for modify password of CooVox system, and the settings of system voice.

```
Click [System] -> [Management] :
```

Management

Change Password
Password:
New Password:
Retype New Password:
Apply
Set Language
Set Voice Language: English

Save

#### 7.4 Backup

# Click [System] -> [Backup]

		Backup	, I	Jpload Backı	up File			
List of Backups				Take a Ba	ackup			
	Name		Date			Ор	tions	
1	backup_2013jar	09_135847	Jan 09	9, 2013		Restore	Delete	8
2	backup_2013jar	109_135854	Jan O	9, 2013		Restore	Delete	×
3	backup_2013ma	ar13_155906	Mar 1	3, 2013		Restore	Delete	8
4	backup_2013ma	ar28_174911	Mar 2	8, 2013		Restore	Delete	8
5	backup_2013ma	ar28_174938	Mar 2	8, 2013		Restore	Delete	8

#### Reference:

Item	Explanation			
Take a Backup	Take a backup of the current system configuration.			
Restore	Restore system to the specified backup configuration.			
Delete	Delete specified backup file.			

Click the download button "

# Click [Upload Backup File] to upload the backup file here.

Upload Backup File

	Backup	Upload Backup File	
	Uplo	ad Backup File	
	Note: Don't cha	ange the backup file name.	
Please	choose file to uplo	ad:	浏览
	[	Upload	

Click [browse] to select the local backup file, and click [Upload] to upload the backup file to system.

# 7.5 Reset & Reboot

If you need reset the system to factory defaults or reset, please click [System] -> [Reset & Reboot]: Restoring factory settings will make configuration data in the system lost.

Reset & Reboot

Factory Defaults
Warning: Restore factory settings, will lost all configuration data on the system!
Factory Defaults
Reboot
Warning: Rebooting the system will terminate all active calls!

Reboot

Click 【Factory Defaults】 to reset the system to factory defaults. Click 【Reboot】 to reboot the system.

# 7.6 Upgrade

# 7.6.1 WEB Upgrade

Click [System] -> [Upgrade] -> [WEB Upgrade] :

Upgrade System Packa	ge
WEB Upgrade	P Upgrade
Restore Default Set: Please choose file to upload:	浏览
Upload	

Click [Browse] to select the firmware file, then click [Upload] to upload the selected firmware to system and finish the upgrading automatically.

If check 【Restore Default Set】, the system will clear all the configuration and reset to factory default.

#### 7.6.2 TFTP Upgrade

Click [System] -> [Upgrade] -> [TFTP Upgrade] :

Upgrade Syste	em Package
C WEB Upgrade	⊙ TFTP Upgrade
Restore Default Set: Enter The Package Name:uImag	ge-md5.u50
TFTP Server IP address:	
Star	t

#### Reference:

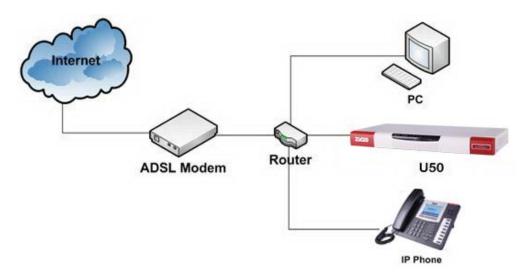
Item	Explanation
Restore Default Set	System will restore to factory defaults after checking this option.
Enter The Package Name	Enter the package name for upgrading.
TFTP Server IP address	Enter your TFTP server IP address.

#### Chapter 8 Operating Instruction

(Take CooVox-U50 as example)

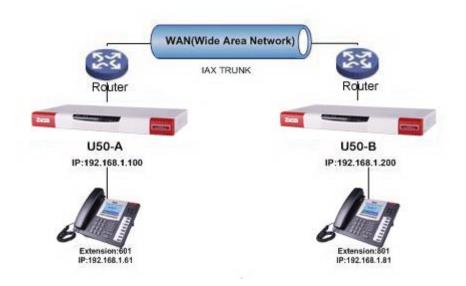
#### 8.1 How to connect CooVox-U50 in the Network

If your office accesses the public network through router, you can put the CooVox IP PBX behind the router. You should connect the WAN port of the IP PBX to the LAN port of the router.



# 8.2 How to combine two sets CooVox IP PBX in the same network

We start to combine two IP PBXs in the same network and then try to expand to different network. Combine two IP PBXs in the same LAN from the structure as below:



Register U50-B IP to a trunk of U50-A, and register U50-A IP to a trunk of U50-B, without authentication for each registration.

Configuration Rule:

- 1. IP Phone registers on CooVox-U50-A with extension number 601.
- 2. Another IP Phone registers on Coovox-U50-B with extension number 801.
- 3. CooVox-U50-A WAN IP: 192.168.1.100.
- 4. CooVox-U50-B WAN IP: 192.168.1.200.
- 5. Extension format of CooVox-U50-A: 6XX.
- 6. Extension format of CooVox-U50-B: 8XX.
- 7. All extensions on U50-A can call extensions on U50-B by 8XX format.
- 8. All extensions on U50-B can call extensions on U50-A by 6XX format.

Step1: Register U50-B IP to a trunk of U50-A

CooVox-U50-A: Click 【Basic】-> 【Trunks】-> 【New VoIP Trunk】:

Edit S	(P trunk trunk-sip-U	50-A	Х
Description:	U50-A		
Host:	192.168.1.200	:5060	
Maximum Channels*:	0		
Prefix:			
Caller ID:			
🗌 Without Authenticati	ion		
Username: U50-A			
Authuser: U50-A			
Password:			
Advanced Options			
	Save Cancel		

**Step2:** Register U50-A IP to a trunk of U50-B as the same way of step 1. **Step 3:** Create DialRule on U50-A, and add the DailRule to the DialPlan Click [Outbound Routes] -> [DialRules] -> [New Dial Rule] :

New Di	alRule	Х
Rule Name: rule 1		
PIN Set:		
Place this call through:		
	»» U50-A(SIP)	
	<b>«</b> «	
Available Trunks	Selected Trunks	
Custom Pattern:		
	git from 1 to 9	
	git from 2 to 9 git from 0 to 9	
	mber of additional digits	
Delete digits prefix from the from	t and auto-add digit before dial	ling
Save	Cancel	

Select the created line 192.168.1.200 to [Selected Trunks], custom pattern is XXX, save and activate.

Click [DialPlans] -> [New Dial Plan] :

New DialPlan	х
DialPlan Name: DialPlan1	
Include External Calling Rules ✓ Rule 1	Include Internal Calling Rules         ✓ Extensions         ✓ Spy         ✓ Conference         ✓ Ring Groups         ✓ IVR         ✓ Call Queues         ✓ Paging and Intercom         ✓ DISA
Save Can	cel

Check the created calling rule, save and activate.

**Step4**: Create dialrule on CooVox-U50-B, add the created dialrule to the dialplan as the same way of Step 3.

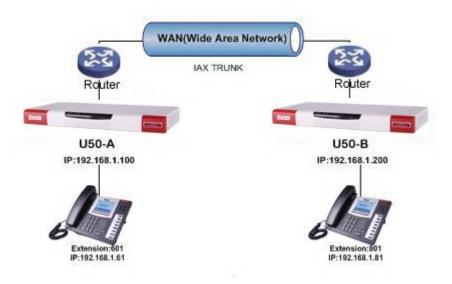
Step 5: Activate the current configuration and test:

- 1. Register IP Phone to U50-A as extension 601.
- 2. Register another IP Phone to U50-B as extension 801.
- 3. Make a call from 801 to 601, 601 rings and the call is connected.
- 4. Make a call from 601 to 801, 801 rings, and the call is connected.

#### 8.3 How to connect two sets CooVox IP PBXs in different network?

E.g.: two sets CooVox-U50 in the internet.

Normally, the two sets CooVox-U50 are located in different place; but they are in the internet, and have public IP address.



# Note: Enable NAT on Router.

For external line configuration, you must use public IP address. Take the following instructions as example:

Register U50-B IP to a trunk of U50-A with authentication.

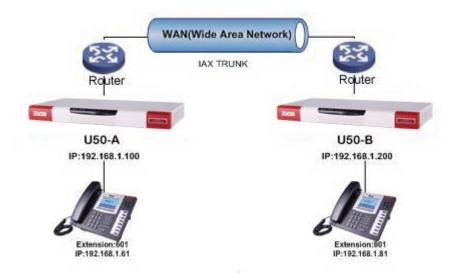
Configuration Rule:

- 1. IP Phone registers on U50-A as extension 601.
- 2. Another IP Phone registers on U50-B as extension 801.
- 3. U50-A IP:192.168.1.100.
- 4. U50-B IP:192.168.1.200.
- 5. Extension format of U50-A: 6XX.
- 6. Extension format of U50-B: 8XX
- 7. Create an extension 888 with password 123456 on U50-B.
- 8. All extensions on U50-A can call extensions on U50-B with format 8XX.
- 9. All extensions on U50-B can call extensions on U50-A with format 6XX.

For detail steps, please take chapter 8.2 as reference.

# Two sets U50 behind router

Sometimes U50 doesn't have public IP, and you have to configure port mapping for your router.



**Step1:** Configure the mapping rule of U50-A on the router.

U50-B is connected behind the router, registers on U50-A through internet, you need configure the port mapping of IAX2 port(4569) on the router. Then, all data received from WAN port of router(192.168.1.100:4569) will be sent to U50-A

pplications –								
& Gaming	Setup	Security	^	Applicat & Gam		Administration	Status	
	Port Range Fo	orwarding		Por	rt Triggering	) UPni	P Forwarding	DMZ
UPnP Forwarding								UPnP Forwarding
	Application	Ext.Port	тср	UDP	Int.Port	IP Address	Enabled	UPnP Forwarding can be us
	FTP	21	۲	0	21	192.168.1.0		to set up public services on your network. When users to
	Teinet	23	۲	0	23	192.168.1.0		the Internet make certain requests on your network, the
	SMTP	25	۲	0	25	192.168.1.0		Router can forward those requests to computers equip to handle the requests. If, fo
	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	<b>~</b>	is recommended that the computer use static IP
	POP3	110	۲	0	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	<b>~</b>	used to configure this throug UPnP communication.Be sure
	http1	8080	۲	0	80	192.168.1.29	<b>v</b>	that you enter a valid IP Address. (You may need to
	http2	8090	۲	0	80	192.168.1.209	<b>V</b>	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	<ul><li>✓</li></ul>	For added security,
	IAX2	4569	0	۲	4569	192.168.1.21		More

Now, take the web management panel of Linksys router as example.

### Step2: U50 Configuration

Configure the trunk and dialplan on U50-B, register U50-B IP to U50-A, configuration is same as above, but you have to replace the public IP with internal IP:192.168.1.21.

Step3: Configure port mapping rule of U50-B on the router

Configure port mapping of U50-B on the router as the same way of step1..

#### Step4: Connect two sets U50 and make the call

Create extension 601 on U50-A, extension 801 on U50-B, and create the correct outbound rule.



Public IP must be provided by network provider. It could be dynamic IP address, and easy to change; you can resolve this problem by using DDNS.

# 8.4 How to resolve the problem "one-way" audio problems

If U50 is behind router, to resolve the problem, please set up IP address as below: Click [Advanced] -> [Option] -> [Global SIP Settings] :

NA	T Support	
		External IP:
		External Host:
	Exter	mal Refresh(sec):
	Local N	Network Address:
1.	External IP	External IP or domain to replace the device IP
2.	External Host	External domain to replace the device IP
3.	External Refresh(sec)	Refresh time, default is 10 seconds.
4.	Local Network Address	IP address and subnet mask needed to be converted .

E.g.: 192.168.1.100/255.255.255.0

#### 8.5 How to use Skype on CooVox-U50

#### 8.5.1 Visit the top-up page

Visit the top-up page: <u>http://skype.tom.com/products/en/skypeout.html</u> Select subscription, payment method and enter the Skype account to top up credit.



First top up for business account must be more than €50.

# 8.5.2 Manage Skype account

After login, you will find Skype Manager, and click it.

#### Settings and extras

Payment settings	Stored payment details and Auto-recharge settings. View details	
Currency	Your currency is set to EUR (Euros). Change	
Skype Manager	You are the administrator of ZYCOO. Skype Manager · Member page	
Redeem voucher	Redeem your voucher or prepaid card. Redeem	

# 8.5.3 Create a SIP file

# Click Features:

Skyper ma	anager™		ZYCOO - Account details - zycoo.com -
Dashboard	Eeatures	Ē	€0,30 Buy Skype Credit
Reports	Features		Your account

# Click Skype connect:

Subscriptions 0 members	Connect your existing on renabled FbX to oxype with oxype Connect. Learn more		
Group video calling O members	Some of your SIP Profiles have been suspended because your Skype Manag has insufficient credit available to pay for the channel subscription. Buy more credit and the profiles will be reactivated.		
Voicemail 0 members			
Online Numbers O members	Your SIP Profiles		
Call forwarding 0 members	Set up a SIP Profile		
Skype Connect () 3 profiles			
Click Set up a SIP Profile:			
Create a SIP profile			
Choose name     2 Set up subscription     3 Authentication			
Creating a SIP profile is as easy as three steps. Simply choose a name for your profile, purchase a channel subscription, and get your authentication details.			

Choose a profile name	
<u>aaa</u>	0

For example, "New York office". You can edit this name later.

Next	Cancel

Create a SIP account, and each account has a channel, you need pay €5 for each channel as monthly rent. Then input the registration profile in the VoIP trunk of U50 and distribute the money to Outgoing calls.

	Profile settings	
aaa	Profile name	888
Profile settings	Calling channels	Buy a channel subscription to activate this profile
Authentication details	Outgoing calls	Set up outgoing calls
Reports		To make outgoing calls from this SIP Profile you need to add Sk
« Back to SIP Profile list		You can also set up Auto-recharge so you never run out of credi call. Outbound calls to landlines and mobiles in the US* are ch- cents/min. For all other destinations see Skype's standard per r rates.
		Add credit Auto-recharge settings
		S € 0.30 Add credit

When click Authentications details, you will see the SIP account profile: Authentication details

B		-	
aaa	-		
	Please choose the method o	of authentication needed for your PBX.	
Profile settings			
Authentication details	<ul> <li>Registration (Username/password)</li> </ul>	or, IP Authentication 🥑	
Reports	SIP User	99051000142212	
« Back to SIP Profile list	Password	KK3UypyyJwr5Wm Generate a new password	
	Skype Connect address	sip.skype.com	
	UDP Port	5060	
	<ol> <li>SIP user is not yet registered</li> </ol>	1 at sip.skype.com	

Select the created line 192.168.1.200 to [Selected Trunks], custom pattern is XXX, save and activate.

For any questions or problems during installation and use, please feel free to contact our technical support via email: <u>support@zycoo.com</u> or phone : 0086 28 85337096.