



# We focus. We deliver

CooVox Series 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 Changelog

# CooVox V1.0.5 Changelog

- Persian voice prompts. (U20/U50/U100) 1.
- 2. Call Transfer outbound cid acquisition. (U20/U50/U100)
- 3. Arabic voice prompts. (U20/U50/U100)
- 4. Custom option on IVR page, allowing to select a DialPlan for IVR. (U20/U50/U100)
- 5. Detection for illegal characters on Global SIP of Options. (U20/U50/U100)
- 6. New and improved Phonebook for user login. (U20/U50/U100)
- 7. Phonebook is related with extensions. (U20/U50/U100)
- 8. Phonebook is related with Call Logs, through which the contact can be added directly. (U20/U50/U100)
- Call Forward in Advanced menu. (U20/U50)
- 10. Do Not Disturb in Inbound Control menu. (U20/U50)
- 11. Peer mode for SIP in SIP trunk . (U20/U50)
- 12. Operator login with default password "password" (only available after setting to factory default). (U20/U50/U100)
- 13. Backup for MOH music file in system backup. (U20/U50)
- 14. A number is not in the range when adding or editing, adding the link for where to add or edit . (U20/U50)
- 15. SIP Allowed Address in security page . (U20/U50/U100)
- 16. Call Duration Limit in DialRule page. (U20/U50/U100)
- 17. TimeRule in DialRule. (U20/U50)
- 18. Matching for (+) in calling number matching. (U20/U50)
- 19. Option for auto closing after organizer quitting on conference page. (U20/U50/U100)
- 20. Italian language. (U20/U50/U100)
- 21. Advanced Protocol File options in E1/T1/R2 settings.(U50/U100)
- 22. TE\_PTP & TE\_PTMP options in BRI settings. (U50/U100)
- 23. VGA login for super users.( U100)
- 24. Followme outbound cid acquisition(call transfer error through E1/VoIP trunk). (U100)
- 25. Accept IP of PPTP in VPN server. (U100)
- 26. Plug and Play (PNP) feature. (U100)

- 27. Fool-proofing detection on Global SIP page. (U100)
- 28. "Office closed" feature code. (U100)
- 29. Call Transfer config in administrator config page. (U100)
- 30. Merged improved Phonebook & Speeddial page (former phonebook & speeddial data will get lost after updating). (U100)

#### CooVox V1.0.5 Patch1 Changelog

- 1. Follow me and call forward configuration are automatically deleted when deleting the extension. (U20/U50)
- 2. Static route setting of virtual interface address. (U20/U50)
- Batch upload & download for Callgroup and pickupgroup on User Extentions page. (U20/U50)
- French system language (Cache cleaning required). (U20/U50/U100) 4.
- Spanish system language (Cache cleaning required). (U20/U50/U100) 5.
- 6. Options for more local network config in global SIP configuration. (U20/U50)
- "Allow Guest" option in global SIP variables. (U20/U50/U100) 7.
- Added PPI(P-Preferred-Identity) in outbound SIP signaling; it is one way of the outbound callerid of 8. sip trunk. (U60/U100)
- Add 3G driver loading process in rc.local file. (U60)
- 10. Add "hardware echo cancellation" option in "Global Analog Settings" page. (U60)
- 11. Added "Refresh" button for DHCP Client List. (U60)
- 12. Add Call Group and Pickup Group in Download Extensions Template. (U60)
- 13. Added options for "Remote HTTP/SSH Administration" on "Service" of GUI.(U100)
- 14. Multiple local networks can be configured on Global SIP Settings page. (U100)

#### CooVox-U20 V1.0.5 Patch2 Changelog

- 1. System voice prompts can be recognized automatically and can be downloaded online. (U20/U50)
- 2. Support Auto-Provision feature for Akuvox and Escene phones. (U20/U50)
- 3. Added search method based on caller/callee number on record list page. (U20/U50)
- 4. Recording list can be paged. (U20/U50)
- 5. Group members' extensions in ring group can be configured as the "Ring group number". (U20/U50)
- 6. System will remind "whether to delete the recording files" when deleting the monitored extension from Call Recording page. (U20/U50)
- 7. Added fax list page for both admin and extension user web GUI. (U20/U50)
- 8. Added PPI(P-Preferred-Identity) in outbound SIP signaling; it is one way of the outbound callerid of sip trunk. (U20/U50)
- 9. Added tcpdump command for capturing packet. (U20/U50)
- 10. Added macros in Custom options of PNP function, \${MAC} = MAC address. (U20/U50)

11. When adding new BRI trunk on the page of BRI Trunk, it can be active after system reboot. (U50)

# CooVox V.1.1.0 Changelog

- 1. Added "call duration" on "Record List" page (Administrator & Extension User GUI). (U20/U50/U60/U100)
- 2. Added Russian language option in the GUI. (U20/U50/U60/U100)
- Added "Timeout" on IVR page(The maximum interval time for prompt playback). (U20/U50/U60/U100)
- 4. Added the extension number in destination ID field and also the ring-group or queue the extension is associated with on Call Logs page. E.g.: Extension 806 which belongs to ring-group 640 receives a call from caller 801. (U20/U50/U60/U100)
- 5. Added DST(daylight saving time) to Tehran Time. (U20/U50/U100)
- 6. Added the option "Keep the current network settings" when reset to factory default. (U20/U50)
- 7. Added the option "Ring Timeout" in Global Analog Settings page, which is used to define the time to hang up the call when there isn't a ring signal before the FXO answers. (U20/U50/U60/U100)
- 8. Added the option "Enable Attended Transfer Caller ID" in Options page. Once enabled, the Caller ID will be sent to the transferred destination when transferring the call. (U20/U50/U60/U100)
- 9. Added more brands to Auto Provision: (U20/U50/U60/U100)
  - 1) Support auto-provision of Cisco IP Phone SPA303 (TFTP(DHCP Option66) only, DOES NOT support PnP);
  - 2) Support auto provision of MOCET IP Phone IP3032E (Default is PnP, also support TFTP(DHCP Option66));
  - 3) Support auto provision of Hanlong IP Phone UC860P, UC842, UC802P, UC840P, UC804P, UC806P (Default is PnP, also support TFTP(DHCP Option66)).
- 10. Added PPTP client watch process.(U60/U100)
- 11. Fax files can be displayed on list. (Administrator & Extension User GUI). (U60/U100)
- 12. Added calling and called retrieval in recording list. (Administrator & Extension User GUI). (U60/U100)
- 13. Strengthen the recovery function of backup files; it's available to choose recovery PBX or network settings when restore backup. (U60/U100)

# CooVox V1.1.1 Changelog

- 1. Added UserAgent option on Global SIP Settings page. (U20/U50/U60/U100)
- 2. Added One Number Stations function(One number for all stations; please learn details from the user manual), function of switch station will take effect after factory reset. (U20/U50/U60/U100)
- 3. Added Report info menu on the Operator page. (U20/U50/U60/U100)
- 4. Support 3G network as backup when WAN fails to access internet. (U20/U50/U60/U100)
- 5. Added CooBill Plug-in. (U20/U50/U60/U100)
- 6. Added CooCall Plug-in. (U20/U50/U60/U100)
- 7. Added Auto Provision function for iSpeaker C20. (U20/U50/U60/U100)
- 8. Added Label function for Number DID. (U20/U50/U60/U100)
- 9. Add Turkish language option in the GUI. (U20/U50/U60/U100)

- 14. Added synchronization button for NTP time setting in case of failure of auto-synchronizati on. (U20/U50/U60/U100)
- 15. Added Web Dial function on the Extension User GUI. (U20/U50/U60/U100)
- 16. Support auto-provision for Fanvil IP Phone. (U20/U50/U60/U100)
- 17. Added 3G voice module driver.(U50/U100)
- 18. Added the privileges for super user to recover root password and check IP address of W AN and LAN .(U60/U100)
- 19. Added VLAN static route setting. (U60/U100)
- 20. Backup hot\_standby configurations and display them on System Backup page.(U100)

For more information please go and download the changelog to each model respectively on our webs ite. http://zycoo.com/html/Download.html

V1.1.1 CooVox Series User Manual is the latest version, updated based on V1.1.1 Changelog.

# **Chapter 2 Brief Introduction**

#### 2.1 Brief Introduction of CooVox Series

The CooVox Series IP PBXs are designed to provide SMEs (small & medium enterprises) with all the standard and 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 whose innovative modular telephony design, that is easy to expand the PBX to meet the growing needs of your business.

CooVox Series IP PBXs come in four sizes: U20 / U50 / U60 / U100.

Each model will be introduced in detail below:

CooVox-U20 is configured with 2 analog ports:

	FXS	FXO
CooVox-U20	1	1
C00V0X-U2U	0	2

CooVox-U50 consists of two main parts: U50 Host and 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	✓	✓
4FXO	✓	<b>~</b>
2FXOS	✓	<b>✓</b>
2GSM	✓	<b>✓</b>
4GSM	✓	<b>✓</b>
1PRI	✓	×
4BRI	✓	×

#### CooVox-U60 is configured with 24 analog ports:

	2FXS	2FXO	FXOS
CooVox-U60	✓	✓	✓

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	✓	✓
4FXO	✓	✓
2FXOS	✓	✓
2GSM	✓	✓
4GSM	✓	✓
1PRI	✓	<b>✓</b>
4BRI	×	✓

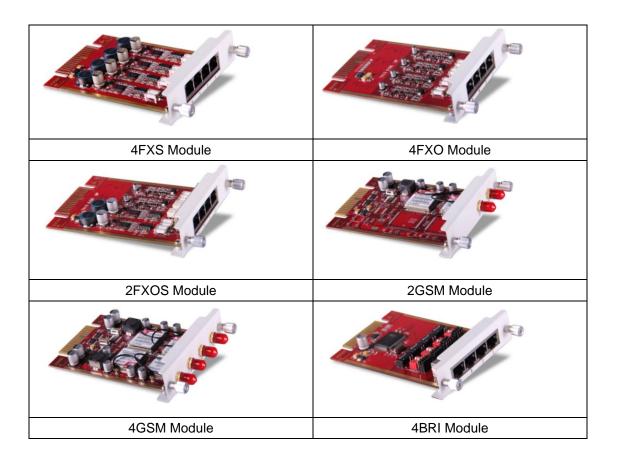
#### 2.2 Main Features

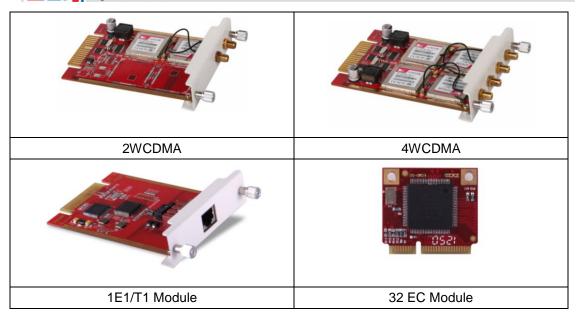
- 1. SIP/ IAX Extension Registration
- 2. Video Call
- 3. USB Mobile Hard Disk Record (Scalable)
- 4. IP Phone Provisioning (Grandstream / Yealink/Fanvil IP Phone)
- 5. Call Record /Ring Group Record/ Call Queue Record
- 6. Web-based Administration and configuration
- 7. Web-based Extension User Management
- 8. Voicemail
- 9. Caller ID
- 10. Call Parking/ Call Forward/ Call Transfer/ Call Waiting
- 11. Call Center Queues
- 12. Black List
- 13. Phonebook
- 14. Flexible Dial Plan
- 15. Virtual Fax (fax to email, and email to fax)
- 16. DID/Smart DID/ DOD
- 17. Dial by Name
- 18. Speed Dial
- 19. Do Not Disturb
- 20. Callback
- 21. Skype for SIP
- 22. Ring Group
- 23. Conference Bridge (Three Conferences)



- 24. Music On Hold
- 25. DISA (Direct Inward System Access) / Paging And Intercom
- 26. Call Detail Record
- 27. IP Phone Feature Code
- 28. One Number Stations
- 29. BLF(Busy Lamp Field)
- 30. Static /DHCP /PPPoE Network Access
- 31. DHCP Server
- 32. System Backup
- 33. T.38 Pass-through
- 34. Audio Codec: G.722/ G.711-Ulaw/ G.711-Alaw/ G.726/ G.729/ GSM/ SPEEX
- 35. Video Codec: H.261/ H.263 / H.263+ / H.264
- 36. VPN Server (L2TP / PPTP / OpenVPN, up to 10 connections for VPN clients)
- 37. VPN Client (L2TP / PPTP / OpenVPN / N2N)
- 38. SNMPv2
- 39. IPv4 / IPv6
- 40. DDNS(Dyndns.org /No-ip.com /zoneedit.com)

#### 2.3 Modules





#### 2.4 Hardware Interfaces

#### 2.4.1 CooVox-U20



CooVox-U20 Front Panel



CooVox-U20 Rear Panel

E-mail. zycoo@zycoo.com

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

## **U20 LED Indication**

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

## 2.4.2 CooVox-U50



CooVox-U50 Front Panel





#### CooVox-U50 Rear Panel

- 1 \* Reset Button
- 1 \* Power Interface (DC 12V 2A)
- 1 \* Ethernet Interface (10/100Mbps)
- 1 \* Console Interface
- 1 \* USB Interface

Slot 1 for Analog/ GSM/ PRI/ BRI/ WCDMA Module Cards Slot 2 for Analog/ GSM/ WCDMA Module Cards Only

#### **U50 LED Indication**

Indication	Function	S	tatus		Explaination
DW/D	Power Status	On			Power On
PWR	Power Status	Off	Off		Power Off
SYS	Custom Status	Blink			System Works
313	System Status	Off			System Fails
ETH	Data Status	Blink			Data Transport
EIH	Data Status	Off			No Data Transport
USB	U-disk or	Off			Module not running
USB	UMTS(3G) Status	On			Module Works
				Green	Channel Loading Success
		FXS		Blink	Channel Ringing
	SLOT 1/2 Status			Off	Channel Loading Failure
		FXO		Red	Channel Loading Success
				Blink	Channel Ringing
				Off	Channel Loading Failure
		GSM		Red	Channel Loading Success
1 4/CLOT1				Blink	Channel Ringing
1-4(SLOT1 /2)				Off	Channel Loading Failure
/2)		E1/T1	L1	Red	Module Loading Success
		(PRI/R2)		Off	Module Loading Failure
		(Only	L2	Red	CPE signal
		for Slot 1)		Green	NET signal
				Off	No signal
			L3	Red	SS7 signal
				Green	MFCR2 signal
				Off	No signal

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ZYCO	Zycoo Co., Ltd.				E-mail. zycoo@zycoo.com	
			L4	Red	Disconnected/ Alarm	
				Green	Connected/ No Alarm	
		BRI		Red	TE Mode	
		(Only for		Green	NT Mode	
		Slot 1)		Off	Module Loading Failure	

## 2.4.3 CooVox-U60



# CooVox-U60 Front Panel



CooVox-U60 Rear Panel

- 1 \* Power Interface
- 1 \* Power Switch
- 2 \* Ethernet Interfaces (10/100/1000Mbps)
- 1 \* VGA Interface
- 2 \* Audio Interfaces
- 2 \* USB Interfaces



- 1 \* Hardware Echo Cancellation Interfaces (onboard)
- 1 \* UMTS Interface for 3G Data (onboard)
- 24 \* Analog Ports (FXO/FXS)

#### **U60 LED Indication**

Indication	Function	Status		Explanation	
PWR	Power Status	On		Power On	
PVVK	Power Status	Off		Power Off	
SYS	Blink		System Works		
313	System Status	Off		System Fails	
ETH	Data Status	Blink		Data Transport	
EIN	Data Status	Off		No Data Transport	
		Greei		Channel Loading Success	
1-24 SLOTS	SLOT 1-24 Status	FXS	Off	Channel Loading Failure	
1-24 SLUTS		FXO	Red	Channel Loading Success	
		FAU	Off	Channel Loading Failure	

#### 2.4.4 CooVox-U100



CooVox-U100 Front Panel



CooVox-U100 Rear Panel

- 1 \* Reset Button
- 1 \* Power Interface
- 1 \* Power Switch
- 2 \* Ethernet Interfaces (10/100 Mbps)
- 1 \* VGA Interface
- 2 \* USB Interfaces
- 2 \* Audio Interfaces

SLOT 1 for any Module Cards (4FXO/ 4FXS/ 2FXOS/ 4GSM/ 2GSM/ 1PRI)

# SLOT 2 for any Module Cards (4FXO/ 4FXS/ 2FXOS/ 4GSM/ 2GSM/ 1PRI/ 4BRI)

## **U100 LED Indication**

Indicat	ion	Function	on		Statu	IS			Expla	nation					
DWD		Dower Otat	10	On				Power On							
PWR		Power Statu	JS	Off				Power Off		2					
SYS System Stat		Blink			System Works										
		Off				System Fails		- !							
ЕТИ		Data Status		Blink				Data	Transpo	ort					
ETH		Data Status	,	Off			No Data Transport								
						Gree	n	Chan	nel Loa	ding Succ	ess				
				FXS		Blink		Chan	nel Rin	ging					
						Off		Chan	nel Loa	ding Failu	re				
						Red		Chan	nel Loa	ding Succ	ess				
				FXO		Blink		Chan	nel Rin	ging					
						Off		Chan	nel Loa	ding Failu	re a				
						Red		Chan	nel Loa	ding Succ					
				GSM		Blink		Channel Ringing							
						Off		Channel Loa		ding Failu	re -				
				E1/T	1 L1	Red		Modu	le Loac	ling Succe					
1 4/CL OT	T4 /O\	SLOT 1 /2 Status				Off		Modu	le Loac	ling Failure	е •				
1-4(SLOT	1/2)				L2	Red		CPE :	signal						
								Green		NET s	signal				
						Off		No si	gnal						
									L3	Red		SS7 s	signal		
									Gree	n	MFCF	R2 sign	al		
						Off		No si	gnal						
					L4	Red		Disconnected/		d/ Alarm					
						Gree	n	Conn	ected/ l	No Alarm					
				BRI	·	Red		TE M	ode						
				(Only	for	Gree	n	NT M	ode						
				Slot 2	2)	Off		Modu	le Loac	ling Failure	е				
	Item	S	CooVo	x-U20	CooVo	x-U50	С	ooVox	-U60	CooVox-U	J100				
System	Conc	current Calls	10		20		80			80					
Capacity	Exter	nsion Users	30		100		200	)		500					
	Voice	/oicemail 21,		mins	21,000	000 mins 2		0,000	mins	2,500,000	mins				
	and (		(.gsm)		(.gsm)		(.gs	sm)		(.gsm)					
Recording		3000	mins	3000	mins	20,0	000		270,000	mins					
		(.wav)		(.wav)		min	ns		(.wav)						
							(.w	vav)							
Hardware	SDR	AM	128MB		256MB		1GE	B DDR	3	2GB DDR	3				
Capacity			DDR2		DDR2										
	Memory (default)		4GB SI	D card	4GB SI	D card	32GB SSD 500GB HDD		DD						

China

E-mail. zycoo@zycoo.com

					or 32GB SSD
Power	Input	DC 12V/1A	DC 12V/2A	AC 100-240V	AC 100-240V
Supply					

## 2.4.6 Environmental Requirements

1. Working Tempreture: 0 °C ~40 °C 2. Storage Tempreture: -20 °C ~ 55 °C 3. Humidity: 5~95% Non-Condensing

# 2.4.7 Packing List

CooVox Host	1 set
Power Supply	1 piece
Ethernet Cable	1 piece
Quick Installation Guide	1 piece
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.

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# **Chapter 3 Getting Started**

(Take CooVox-U100 as example for the guide)

#### 3.1 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 2.

(D30/ D30P/ D60/ ZP302/ ZP502/ ZP502P/)

Any standard SIP Phone based on SIP/ IAX2 protocol

(eg: CISCO, Grandstream, Yealink, Polycom, Snom, Akuvox, Escene, Favil, HTek etc.)

## 3.2 Before Making a Call

## 3.2.1 Login IP PBX

#### **Getting IP Address**

There are three ways to set the IP address: Static, DHCP, PPPoE.

Default IP: 192.168.1.100:9999

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: <a href="http://192.168.1.100:9999">http://192.168.1.100:9999</a>. You will see the login interface as below:

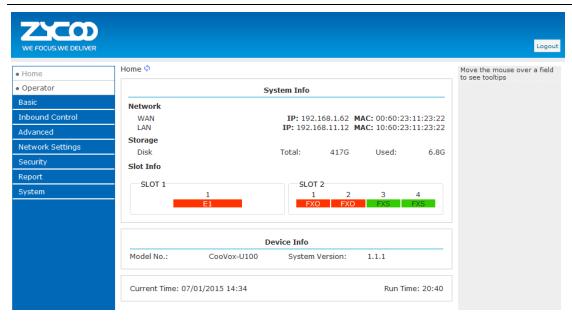


Input username and password, press the "Login" button and you will see the configuration interface

Default username: admin and password: admin



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



- WAN IP and MAC will be displayed 1 Network
- 2. Storage Total storage and used storage will be displayed

3. Channels Channel information will be displayed based on the modules installed

4. 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 Logout the Web panel

2. **Activate Changes** Activate the changes for your current configuration

#### System Menu

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System Menu includes the following sub menu:

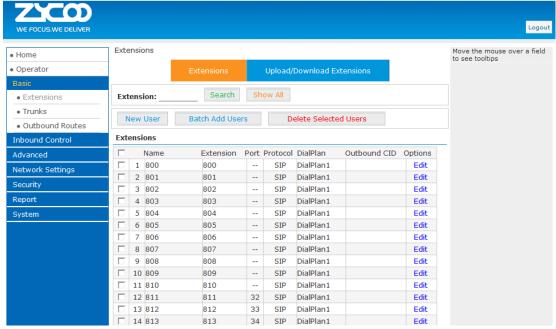
Home	Display device information
Operator	Extension / Trunk / Channel Status
Basic	Basic configuration on extension, trunks, etc.
Inbound Control	Configuration of Inbound Route, IVR and Black List, etc.
Advanced	Configuration of extension's default information, Conference Call, Call
	Transfer, Function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

#### **Basic Configuration**

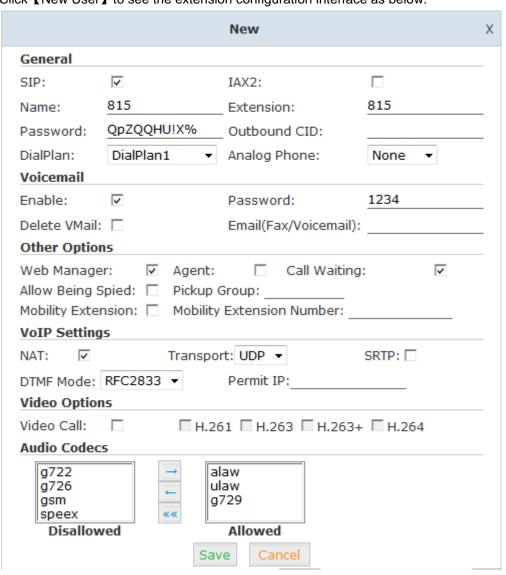
## **Extension Configuration**

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:



#### 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 choose 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
(FAX/Voicemail)	attached fax or 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	Check this option to allow this extension to be monitored (listened to
Spied	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.

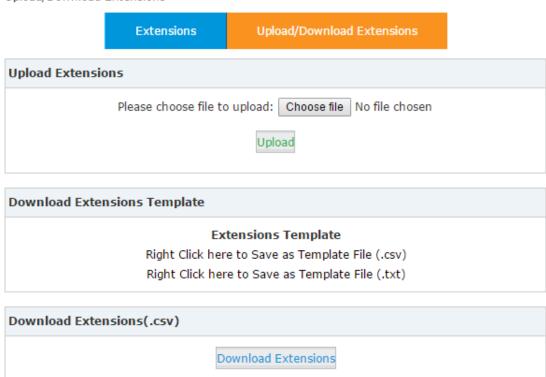


- There are 10 default extensions which number started with "8"; you can add or delete extension by your requirement.
- Maximum extensions: 500

#### **Upload/Download Extensions**

Click 【Upload/Download Extensions】 to batch add extensions as below:

Upload/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)]

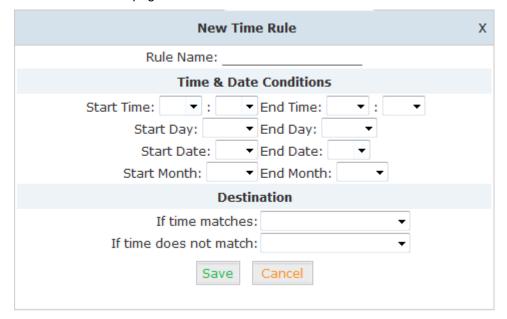
#### 3.2.3 Time Based Rules

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]:



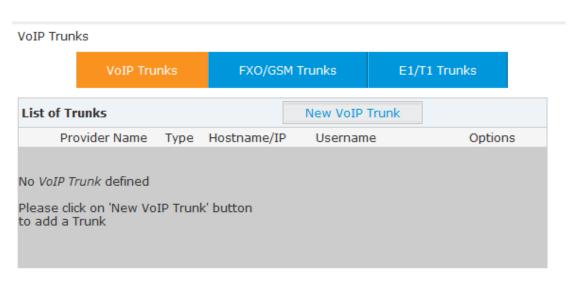
## New Time Rule:

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				
	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				

#### 3.3 Outbound Call

#### **3.3.1 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】



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

## How to add each trunk:

# 1) VoIP Trunks

Click [VoIP Trunk] -> [New VoIP Trunk]:

	New Vol	(P Trunk		Х
Description:				
Protocol:	SIP ▼			
Peer Mode:				
Host:			:5060	
Maximum Channels*:	0			
Prefix:		_		
Outbound CID:				
☐ Without Authentica	tion			
Username:				
Authuser:				
Password:				
Advanced Options				
Fromdomain:		Inse	cure: port,invite	
Fromuser:		Qualify(	sec): 🔽 2	_
DID Number:		Trans	port: UDP ▼	
DTMF Mode: RFC28	33 ▼	NAT: □	SRTP: □	
Auto Fax Detection:				
Context: Default	▼ Lan	guage: Defau	ılt <b>→</b>	
Audio Codecs				
□ ulaw □ alaw □ G.	722 🗆 G.	729 🗆 G.726	☐ GSM ☐ Speex	C
Video Codes	_			
□ H.261 □ H.263 □	H.263+ [	H.264		
	Save	Cancel		

E-mail. zycoo@zycoo.com

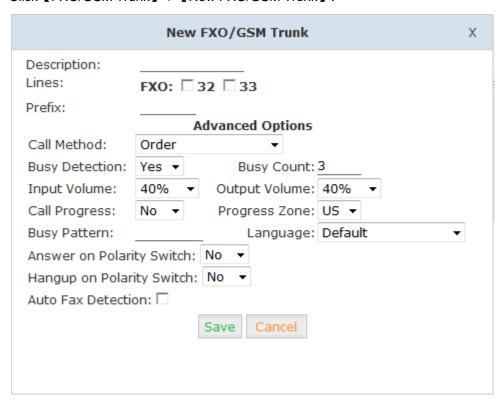
#### VoIP Trunks Reference:

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	If your trunk is static IP based and does not require a registration
Authentification	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.

## 2) FXO/GSM Trunks

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



## FXO/GSM Trunk Reference:

Item	Explanation
Description	Description for this trunk.

China		UAL		OK		
Add. Chengdu, China. Te		Add. Dubai , UAE.	Tel. +971 43552755	Add. Doncaster, UK.	Tel. +44(0)1302773162	
ZYCO Zyco	o Co., Ltd.			E	-mail. zycoo@zycoo.com	
Lines	Check	one or more	channels (FX	O or GSM) to be	included in this	
	trunk g	trunk group				
Prefix	The pre	The prefix will be added to the dialed number automatically when				
	this trur	this trunk is in use.				
Advanced Option	s Advanc	ed Options fo	or this trunk, e	.g.: Call Method,	Busy Detection,	
	etc.	etc.				

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

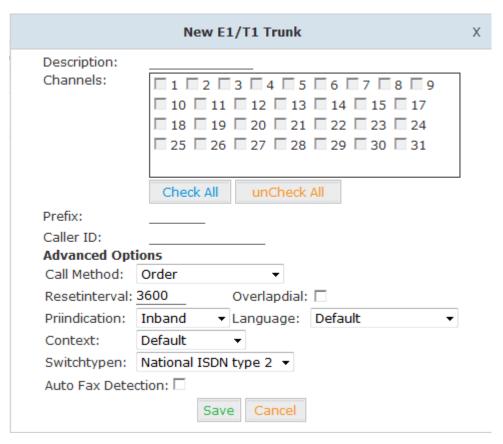
IIΔF

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

#### 3) E1 / T1 Trunk

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## Click [E1/T1Trunk] -> [New E1/T1 Trunk]:



#### E1/T1 Trunk Reference:

Item	Explanation
Description	Description for this trunk.
Lines	Check one or more channels 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.

#### 4) BRI Trunk

BRI Trunk will be displayed if you have installed BRI Module.

#### Click [BRI Trunk] -> [New BRI Trunk]:

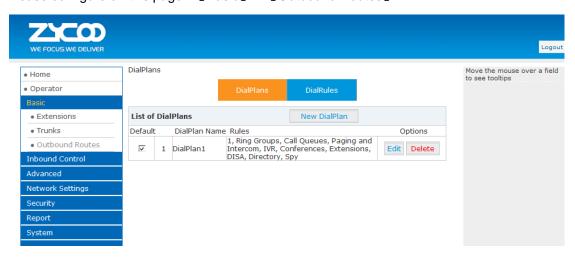


#### **BRI Trunk Reference**

Item	Explanation
Description	Description for this trunk.
Lines	Check one or more channels 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	Advanced Options for this trunk, e.g.: Echo Cancel, Overlapdial,
Options	Method, Contex, Language.

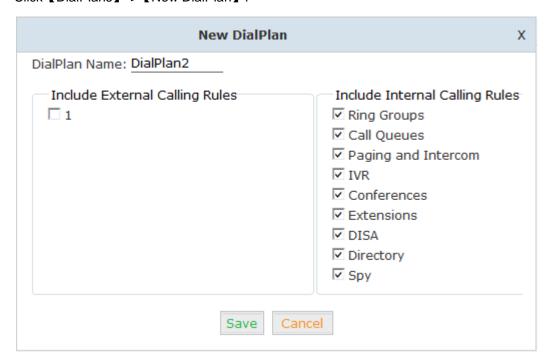
#### 3.3.2 Outbound Routes

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.



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]:



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

China

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# **New DialRule** Х Rule Name: \_\_\_\_ PIN Set: 🗌 Call Duration Limit: seconds Time Rule: 🗌 Place this call through: t(E1/T1) **Available Trunks** Selected Trunks Custom Pattern: Z Any digit from 1 to 9 N Any digit from 2 to 9 X Any digit from 0 to 9 Any number of additional digits Delete \_\_\_\_ digits prefix from the front and auto-add digit \_\_\_\_\_ before dialing

## Reference:

Item	Explanation
Rule Name	Define the name for the dial rule.
Pin Set	Input this Pin when you use this dial rule.
Call Duration Limit	Set the duration limit for a call, beyond which the call will be auto
	hung up
Time Rule	Set the time interval for this DialRule, beyond which the call based
	on this DialRule won't work
Place this call	Select one of the trunk groups that have been set up to use for this
through	dial rule
Custom Pattern	N any digit from 2 to 9
	<b>Z</b> 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.

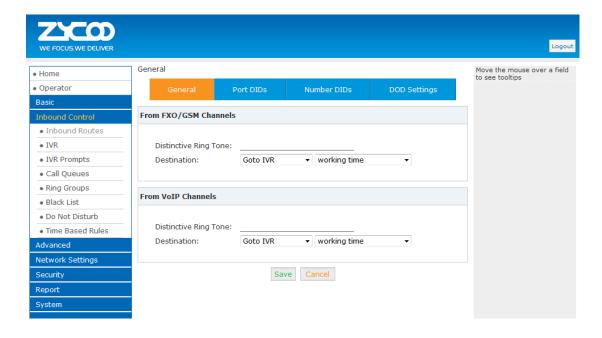
Cancel



#### 3.4 Inbound Call

#### 3.4.1 Inbound Routes

## Click [Inbound Control] -> [Inbound Routes]



#### 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.

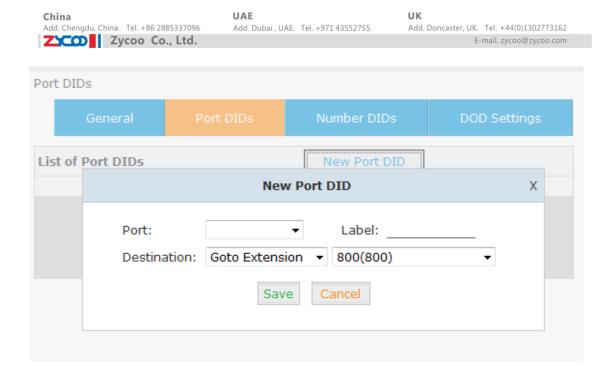
#### Note: The phone must support such feature as well.

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]:



#### **Number DIDs**

If you want to select the destination of inbound calls on PRI/BRI 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]:



DID Number Set DID Number

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】



DOD Number Set the DOD (direct outbound dial) number, and use it to match

the Caller ID.

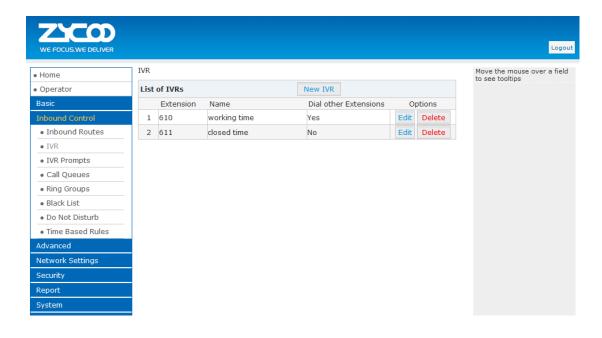
Destination Outbound calls will access directly to this destination

(user extension, queue, conference bridge, or IVR)

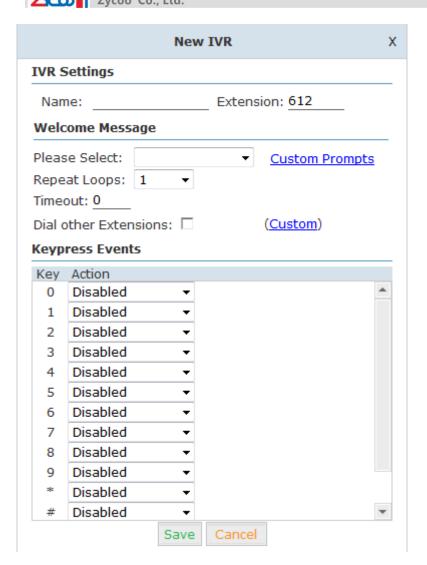
#### 3.4.2 IVR

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]:



Click [New IVR] to create a new IVR:



#### Reference:

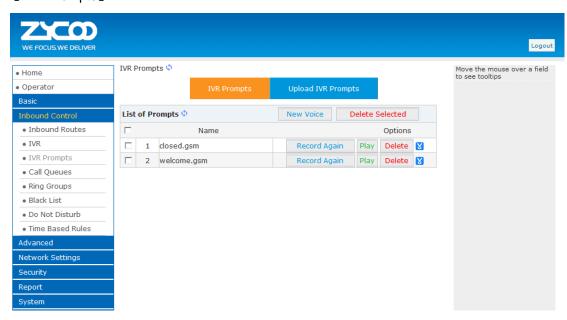
Item	Explanation
Name	Enter a descriptive name for the IVR
Extension	Enter a unique extension or IVR number. This number is used to
	access the IVR from an internal extension
Custom	Click "Custom" to choose a DialPlan for IVR
Please Select	Select the IVR prompt that will provide the caller with instructions 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

#### 3.4.3 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】



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



File Name Define a name for this voice file.

Format Select the voice format, GSM/WAV(16bit) supported only.

Extension used for recording: Select the extension which is used for recording the IVR prompt.

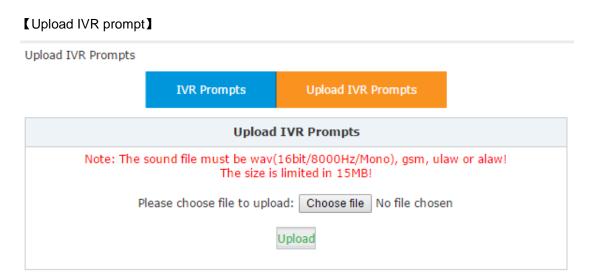
Click 【Record 】, the extension will ring, and the prompt can be recorded after picking up the phone.

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



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**



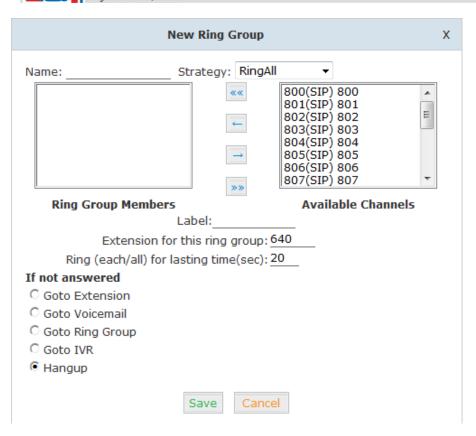


CooVox supports custom audio file with wav, gsm, ulaw, alaw format. Recordings must be smaller than 15MB.

#### 3.4.4 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]:



Name Define a name for the Ring Group
Strategy Select "Ring All" or "Ring in order"

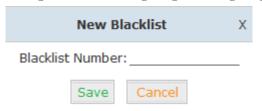
Ring Group Members Select the Ring Group Member from "the Available Channels", click to add.

If not answered You can choose to forward the call to extension, voicemail ring group, IVR or hang up if not answered.

#### 3.4.5 Blacklist

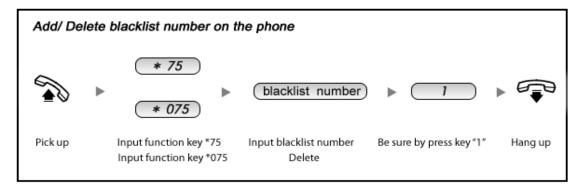
The Blacklist feature allows the blocking of specific phone numbers by Caller ID.

Click [Inbound Control] -> [Blacklist] -> [New Blacklist]



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:



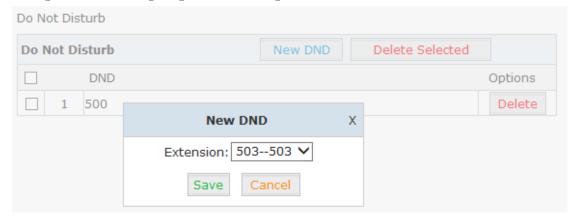
#### Reference:

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.

#### 3.4.6 Do Not Disturb

The administrator can configure DND for extensions on this page:

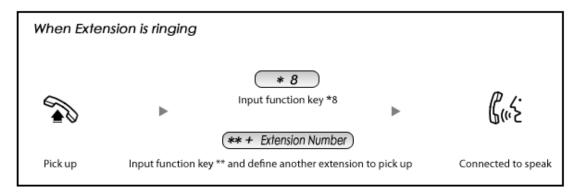
### Click [Inbound Control] -> [Do Not Disturb]:



# 3.4.7 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.

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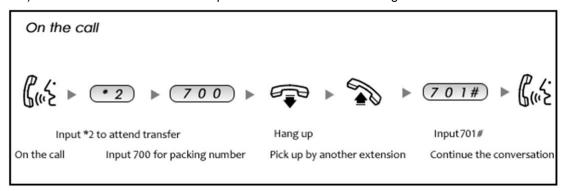
#### Reference:

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】.	

# 3.5 During a Call

# 3.5.1 Call Parking

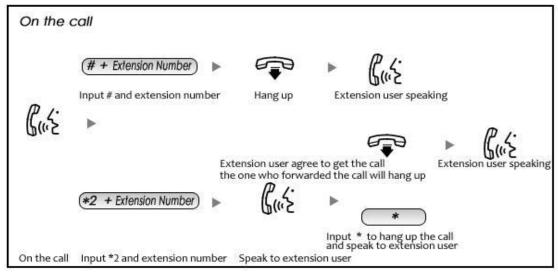
This feature allows a call to be placed on hold (system will play the parked number, e.g. 701) and then retrieved from any other extension by entering the parked number. After answering the call, to park the call press \*2 700 on the telephone dialpad (to transfer the call to the parking lot 700). This 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:



Item	Explanation
Extension to Dial for	Default Number: 700, Define in 【Feature Codes】
Parking Calls:	
What Parking space	Default Number: 701 - 720. Define in 【Feature Codes】
or Extension to park	
calls on	

#### 3.5.2 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:

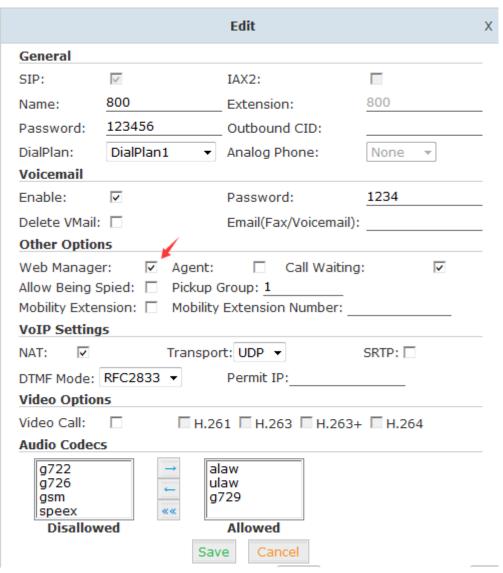
Item	Explanation
Blind Transfer	Default is #. Define in 【Feature Codes】
Attended Transfer	Default is *2. Define in 【Feature Codes】
Complete Attended	Default is *, it can be used when you use *2. Define in 【Feature
Transfer	Code
Timeout for answer on	Default is 15 seconds. Define in 【Feature Codes】
attended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

#### 3.6 User Extension Settings

#### 3.6.1 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] -> [Extension] -> [Edit] the extension you want to configure.

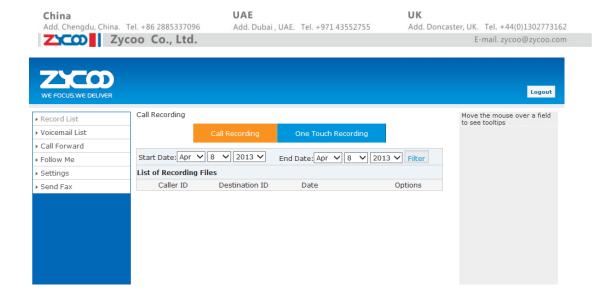


Check [Web Manager] and [Save]

Then login the Extension Web Panel:

#### 3.6.2 Call Recording

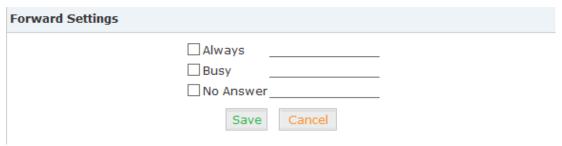
This feature allows users to access calls they have recorded. To configure this setting, please see the diagram below.



#### 3.6.3 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】:



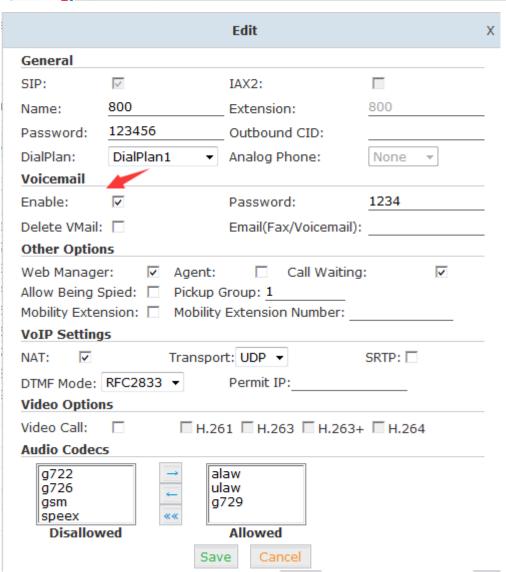
#### Reference

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

#### 3.6.4 Voicemail

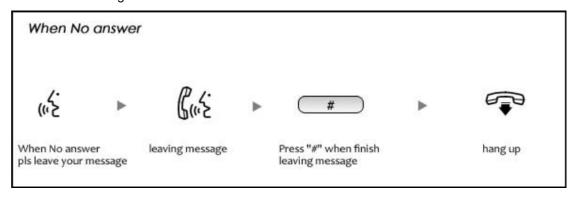
Calls that are not answered have the option to be sent to a voicemail account so the caller can leave a recorded message. Optionally, these recorded messages may be sent to a user's email account.

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



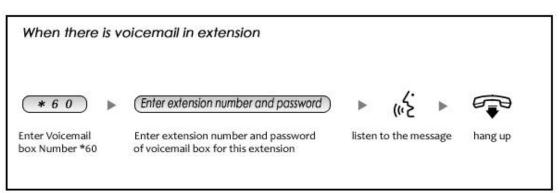
Please enable [Voicemail] before configuration, and configure [VM Password] and [Email]. If incoming calls are not answered, when the default ring time is over, the system will play: "please leave your message and press the "#"key". Then voicemail will be sent to the specified mailbox by email.

#### To Leave a Message



To Listen to the message using the users desk phone







#### Notice:

- Proper Email address is necessary to receive voicemail via email.
- You must configure the SMTP and Email template. For detail settings, please see the detail configuration guide 【Voicemail】 in Chapter 3.

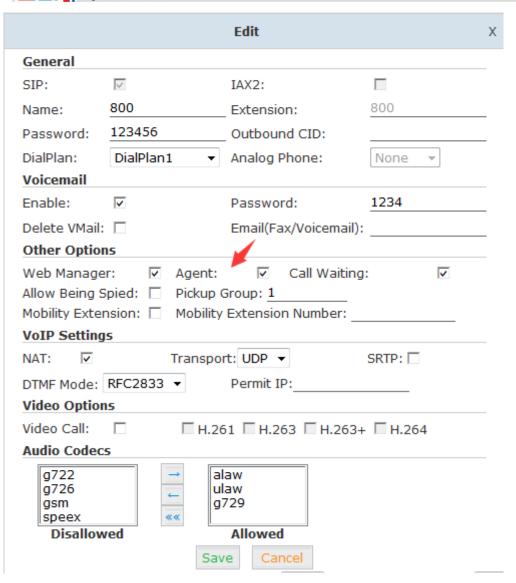
### 3.7 Call Center (Call Queues)

### **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]



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

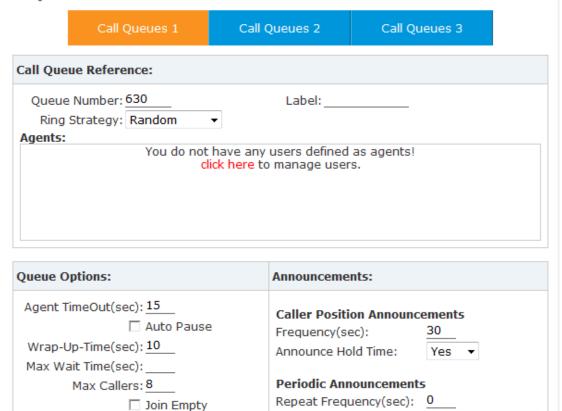
Leave When Empty

Report Hold Time

Save

☐ Auto Fill

#### Call Queues 1



Announcements Prompt:

If not answered

Destination: 挂断

Cancel

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.

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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 Prompt: If not answered Destination: Hangup  ▼

Item	Explanation
Agent	Specify the number of seconds to rin an agent's extension before
TimeOut(sec)	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	Announce the hold time. Announce (yes), do not announce (no) or
Time	announce once (once), it will not be announced when the hold time is
	less than 1 minute.
Repeat	Interval time to play the voice menu for callers.("0" mean not to play).
Frequency(sec)	
Announcement	Select a prompt as the Announcements Prompt from the IVR Prompts.
Prompt	

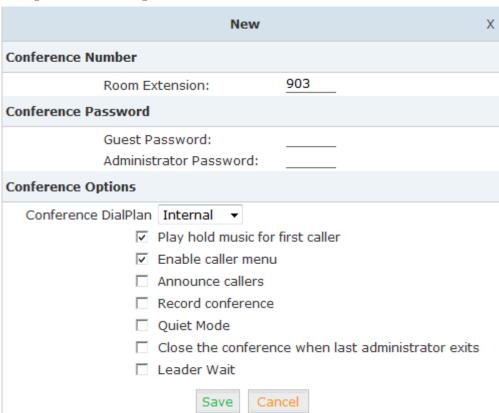
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### 3.8 Conference Bridge

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】:



#### Click [New Conference] to create a new Conference:



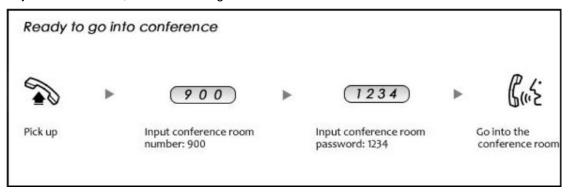
Item	Explanation
Conference Number	The number that internal callers use to access the
	conference room, the default number is "900".

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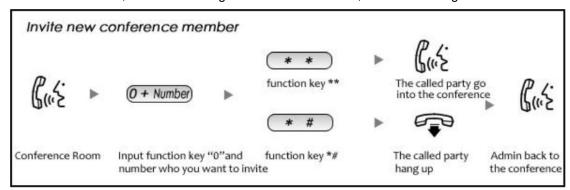
Conference Password	Password for users to access the conference, e.g.:"1234".
Administrator Password	Password for administrator to access the conference.
Conference DialPlan	Use this dialplan to invite other participants.
Play hold music for the first	Check this option to play the hold music for the first
participant	participant in the conference until 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.
Close the conference when	If check this option, the conference will be closed when the
last administrator exits	last administrator exits
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:





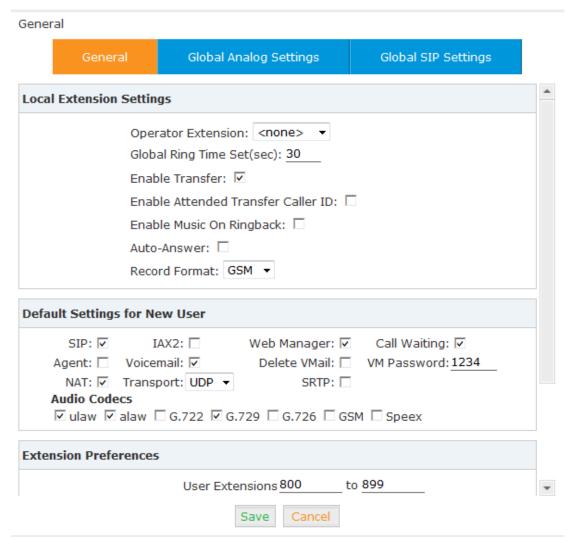
# Chapter 4 Advanced

# 4.1 Options

#### General

Default settings for local extension and new extension.

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

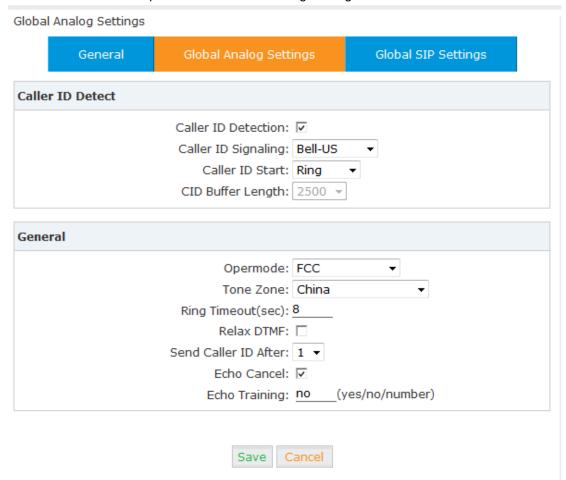


Item	Explanation
Operator Extension	Set extension number for Operator.
Global RingTime Set	Set RingTime for every extension.
Enable Transfer	Check to enable Transfer.
Enable Music On Ringback	Check to enable Music On Ringback.

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]:



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.

#### 4.2 Virtual Fax

Virtual fax is an important feature to help enterprise reduce the cost and promote the efficient communication. It includes email to fax and fax to email generally.

Adopting the HylaFAX technology on CooVox-U60 and U100, it will be more stable to send/ receive fax. CooVox-U20/50 supports virtual fax by default and no need to configure here.

Note: This GUI is only for CooVox U60/U100.

### Click [Advanced] -> [Virtual Fax]:

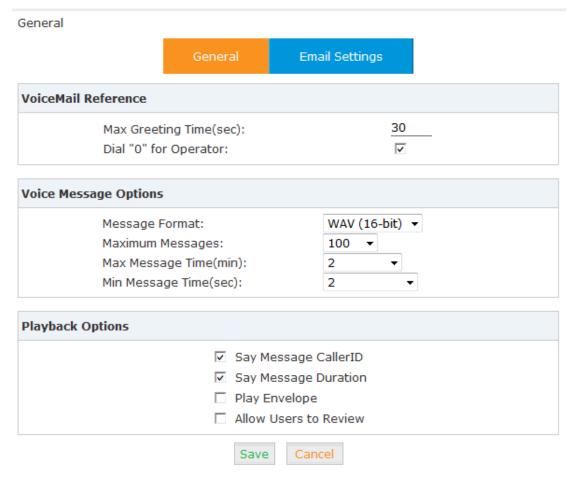
Virtual Fax	
Virtual Fax	
Enable: Country Code: Area Code: Outbound CID: Label: Fax Seat: DialPlan:	4  DialPlan1  Save Cancel

Item	Explanation
Enable	Enable Virtual Fax
Country Code	Country code for the fax number
Area Code	Area code for the fax number
Outbound CID	Define fax number
Label	Header information of the fax (Only support english character)
Fax Seat	How many fax seats can be enabled to send/receive fax
	simultaneously
DialPlan	Select the DialPlan for virtual fax



### 4.3 Voicemail

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

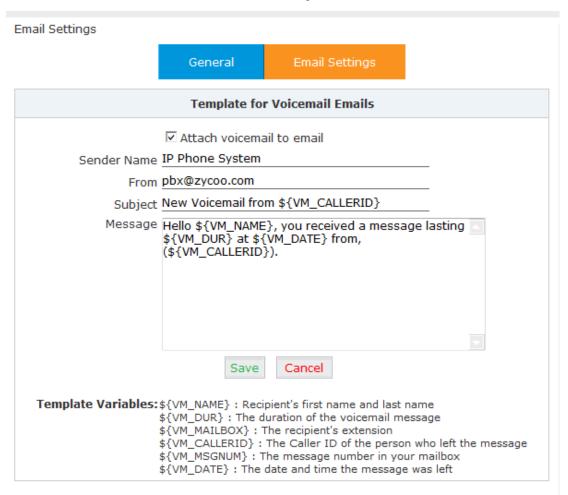


Item	Explanation
Max Greeting Time(sec)	Maximum recording length for voicemail greetings
Dial "0" for Operator	Select this option to allow callers to press Dial "0" to transfer out
	of voicemail to the Operator.
Message Format	Save the voice message as this format, WAV(16-bit) or Raw
	GSM.
Maximum Messages	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 if 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.

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### Click [Advance] -> [Voicemail] -> [Email Settings]:



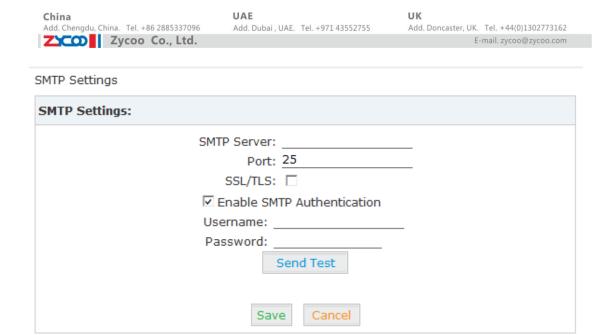
### Reference:

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.

# 4.4 SMTP Settings

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

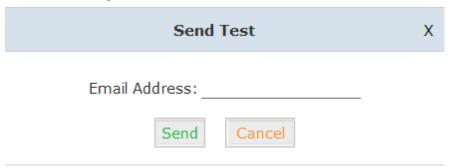
Click [Advance] -> [SMTP Settings]:



#### 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	If your SMTP server needs authentication, please enable this
Authentication	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.



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.

#### 4.5 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:	e 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.

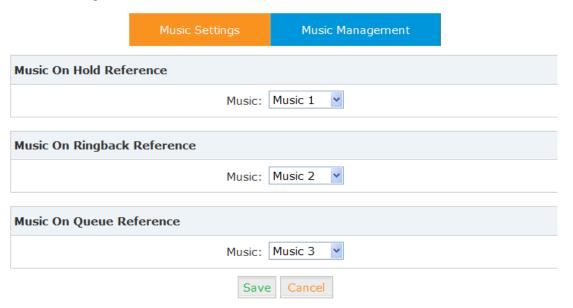
If you need dial the extension when sending fax, e.g.: fax number: 85337096 ext.800, you need use the 【Access Code】: 985337096-800 as subject.

### 4.6 Music Settings

Management of Music on Hold, Music on Ringback, Music on Queue.



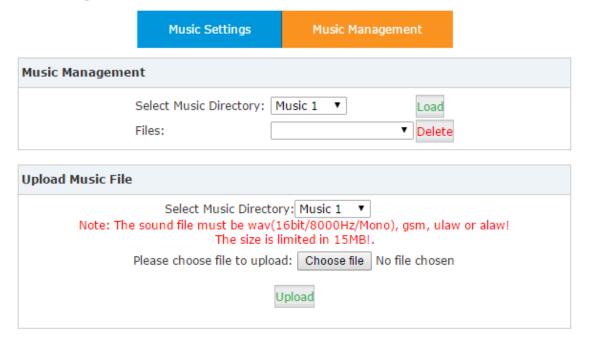
### [Music Settings]:



Select the different music file for different Music.

#### [ Music Management ]

Music Management



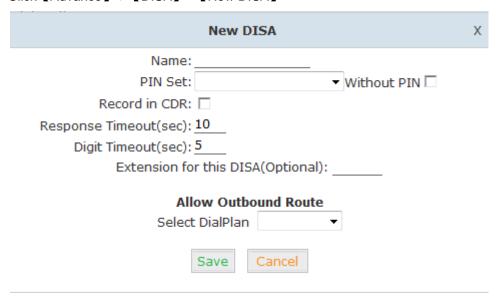
Item	Explanation
Select Music Directory	Select which Music Directory you wish to load.
File	Display music name under the music file, you can delete it.
Select Music Directory	Select the file where you want to save your uploaded music.
Please choose file to upload	Select the music you want to upload.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

#### **4.7 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]



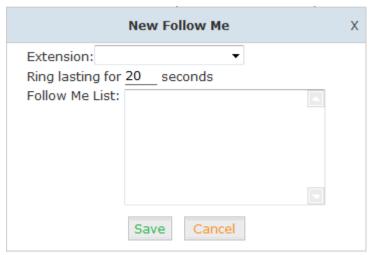
### Reference

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	If you want to access DISA by dialing an extension, you can
DISA(Optional)	define an extension number for this DISA.
Select DialPlan	Select the DialPlan for this DISA.

#### 4.8 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]:

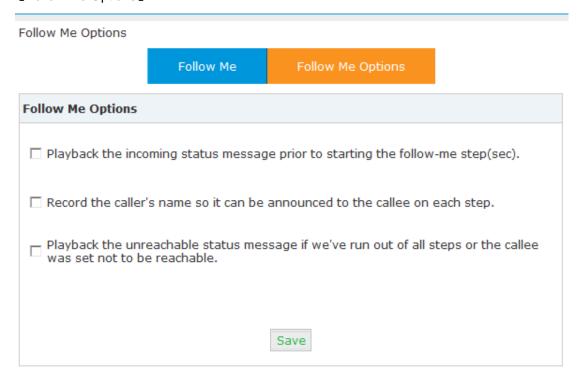


List Format: Extension Number, Ring Duration

E.g.: 806,30 808,20

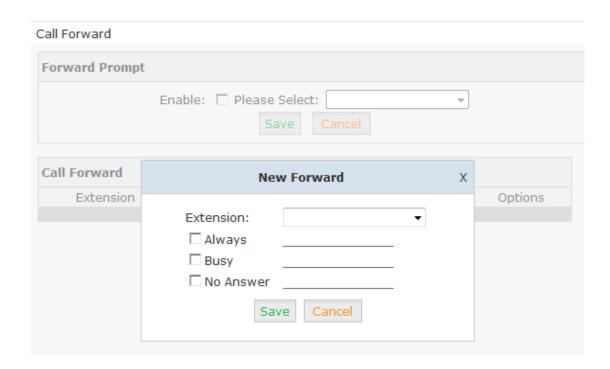
806 rings, after 30 seconds, the call is going to 808

### [Follow Me Options]



#### 4.9 Call Forward

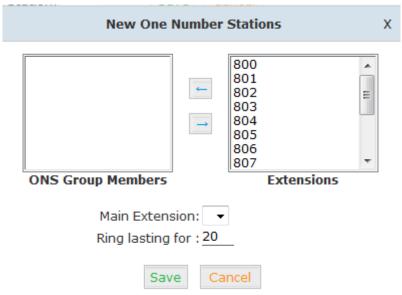
The administrator can configure the Call Forward on this page: Click 【Advanced】->【Call Forward】:



#### 4.10 One Number Stations

During a live phone conversation, one number station can allow you to switch to another extension which are in the same ONS group by feature code \*1.

Click [Advanced] -> [One Number Stations]:



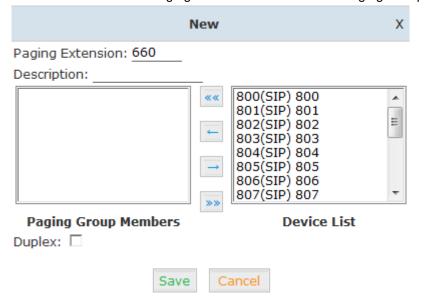
#### Reference

Item	Explanation
ONS Group Members	Select extensions into this ONS Group
Main Extension	Select one extension as the main extension for this group,
	then whatever inbound or outbound call from this group
	members, main extension will be displayed.
Ring Lasting for	Define the time for Ring

### 4.11 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.

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



Item	Explanation
Paging Extension	Define an extension for this Paging Group.
Description	Define a name for this Paging Group.
Paging Group	Selected devices in this Paging Group.
Members	
Device List	Select device(s) here to Paging Group.
	Paging is typically one way for announcements only. Checking this will
Duplex	make the paging 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".

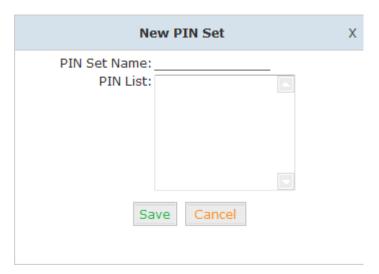


#### 4.12 PIN Sets

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]:



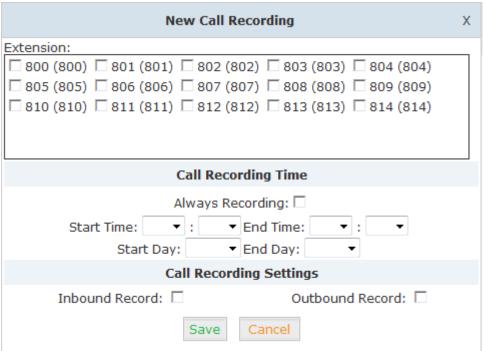
PIN Set Name Define the name for this PIN Set. PIN List Define PIN codes in this list.

# 4.13 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]:



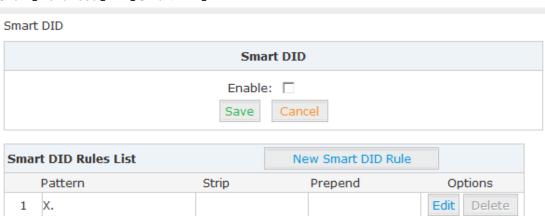
#### Reference:

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

### 4.14 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]:



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

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



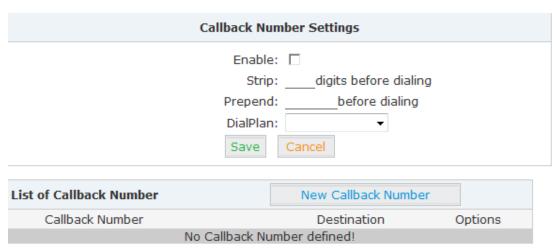
Input the pattern and define how many digits need to be stripped or prepend, then click "Save"--"Activate".

#### 4.15 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]:



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

Click [New Callback Number] to add callback number.

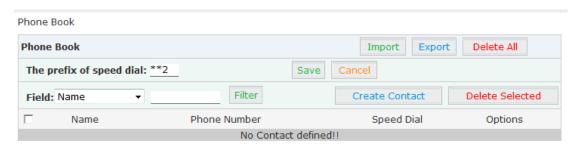


Input callback number and define the destination.

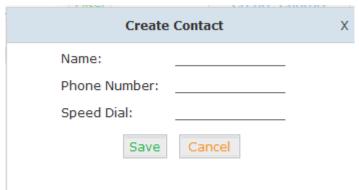
#### 4.16 Phone Book

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]



### Click [Create Contact]



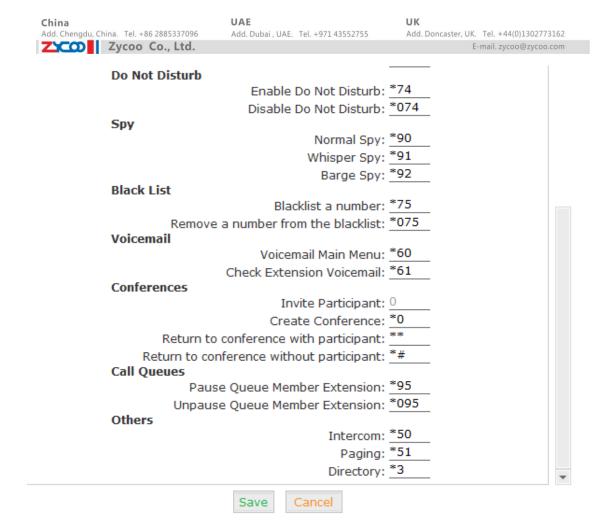
Speed Dial: setting up system wide speed dial numbers that translate a feature code (\*99) plus a two-digit code (00-99) into an external phone number.

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

# 4.17 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: <u>*2</u>		
Disconnect Call: *		
Timeout for answer on attended transfer(sec): 15		
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		



Item	Explanation
Extension to Dial for Parking	Define an extension for parking calls.
Calls	
Extension Range to Park	Define the extension range for parking calls. (e.g.: 701-720)
Calls	
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.

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	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	back on the call with the original caller "A".
	Disconnect the current transfer call (for Attended transfer).
Timeout for answer on	Set the timeout value
attended 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	In conference, the administrator can dial "0" to invite people
participant	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

Add. Chengdu, China. Tel. +86 2885337096	Add. Dubai , UAE. Tel. +971 43552755 Add. Doncaster, UK. Tel. +44(0)1302773162
Zycoo Co., Ltd.	E-mail. zycoo@zycoo.com
participant	into the 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	Pause the agent, and the agent cannot receive the call.
Extension	
Unpause Queue Member	Unpause the agent, and the agent can receive the call.
Extension	
Others	Function key for Intercom/ Paging/ Directory

UK

UAE

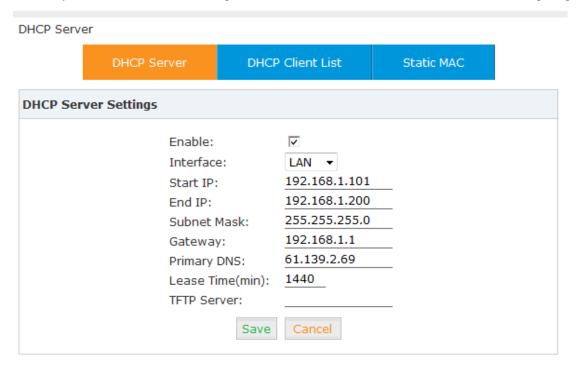
### 4.18 IP Phone Provisioning

China

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 Settings] -> [DHCP Server] DHCP Server in the following diagram:



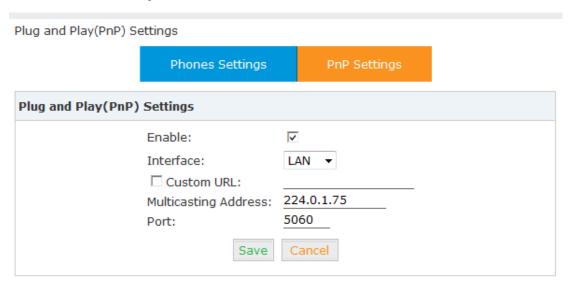
Then Click [Advanced] -> [Phone Provisioning] -> [Phone Settings] -> [New Phone]:

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

Cancel

Save

### Then Click [PnP Settings]





CooVox IP PBX supports IP Phones from CISCO, Grandstream, Yealink, Polycom, Snom, Akuvox, Escene, Favil, Htek now.

# **Chapter 5** Network Settings

# 5.1 Network

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

# **IPv4 Settings:**

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

Network							_
	IPv4 Settin	gs	IPv6	Settings	V	LAN Settings	
WAN Port	Setup						
			IP Assig	n: Static	▼		
		IP /	Address:	192.168.1.6	51		
		Subn	et Mask:	255.255.25	5.0		
	Gateway:			192.168.1.2	253		
	Primary DNS:			8.8.8.8			
		Alterna	ate DNS:				
LAN Port S	Getup						
	IP Address:	192.168	3.211.1	Subn	et Mask	255.255.255.0	
	☐ IP AddressV1:		Subnet	MaskV1	:	_	
	IP AddressV2:			Subnet	MaskV2	:	_
			Save	Cancel			

#### Reference

Item	Explanation
IP Assign	Static/ DHCP/ PPPoE supported.
IP Address for LAN Port	Define a static IP Address for LAN Port
Virtual Interface for LAN	Define the IP address for virtual interface.(V1,V2)
Port	

# **IPv6 Settings:**

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China

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

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

### IPv6 Reference:

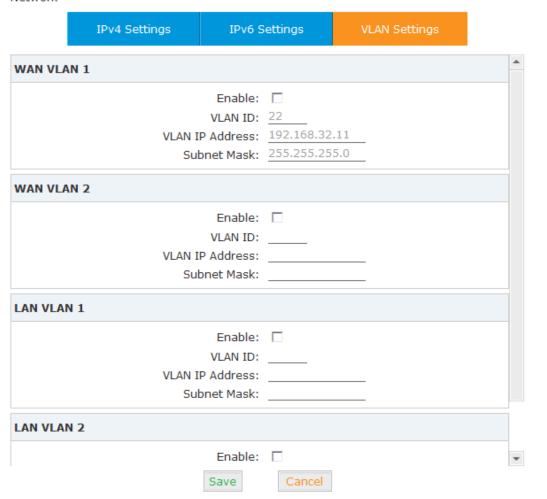
Item	Explanation
Enable	Enable IPv6, define the IPv6 address, gateway, and DNS.

### **VLAN Settings:**

A VLAN has the same attributes as a physical local area network(LAN), but it allows for end stations to be grouped together more easily even if they are not on the same network switch. VLAN membership can be configured through software instead of physically relocating devices or connections. Most enterprise-level networks today use the concept of virtual LANs.

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

#### Network



# VLAN Reference:

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



# 5.2 3G Network

# Click [Network Settings] -> [3G Network]:

3G Network Settings		
	3G Network Settings	3G Network Log
3G Network Se	ttings	
	Enable:	ᅜ
	APN:	3gnet
	Dial Number:	*99#
	Username:	
	Password:	
	Auth Peer Mode:	NONE ▼
	LCP Echo Time(sec):	10
	LCP Echo Wait:	20
	Timeout:	120
	MRU:	1480
	MTU:	1480
	NAT:	
	DNS Manual Set:	
	DNS:	
	WAN Routing Backup:	V
	Network Diagnostic Addr:	192.168.1.88
	Save	ancel
	dress 172.19.54.227 dress 10.64.64.96	_
primary DNS	5 address 10.11.12.13	

# Reference

Item	Explanation		
Enable	Enable 3G Network		
APN	Define APN access way		
Dial Number	Define Dial Number. e.g.: *99#		
Username	Define 3G Network Username (supplied by the internet service		
	provider)		
Password	Define 3G Network Password (supplied by the internet service		
	provider)		
Auth Peer Mode	Select Authentication Model: AUTO/ PAP(Password Authentication		
	Protocol)/ CHAP(Cryptographic Handshake Authenticate		
	Protocol )/ NONE(No Password Authentication)		
LCP Echo Time(sec)	The device sends LCP request (echo-request) to the server, and the		
	request will be responded within n seconds; together with "LCP Echo		

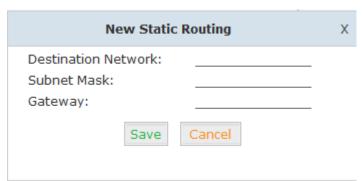
	Wait", defaulted 20 seconds.
LCP Echo Wait	The maximum failure times of LCP request is n; if no response within
	n times, device will ensure the network connection is failed.
	Defaulted 3 times
Timeout	Defaulted 120 seconds.
MRU	Define the Maximum receiving unit
MTU	Define the Maximum sending unit
NAT	Enable NAT of 3G Network
DNS Manual Set	Enable Manual setting for NAT
DNS	Define DNS Address
WAN Routing	Enable WAN Routing Backup
Backup	
Network Diagnostic	Default Address
Add	

# Then click 【3G Network Log】:



# 5.3 Static Routing

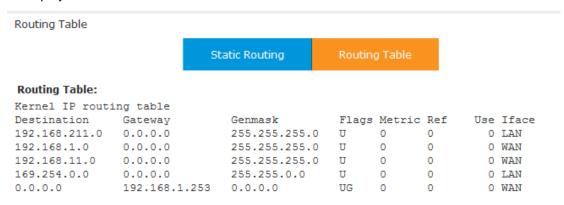
# Click [Network Settings] -> [Static Routing]:



#### Reference:

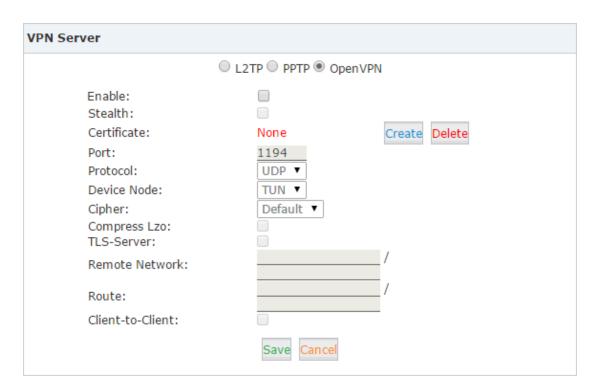
Item	Explanation
Destination	Set destination network for static routing.
Subnet Mask Set subnet mask of the destination network.	
Gateway	Define the gateway accessing the destination network.

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



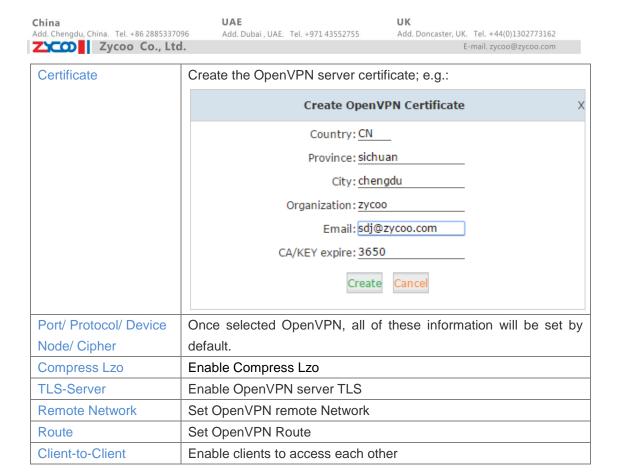
### 5.4 VPN Server

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



# OpenVPN Server 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 OpenVPN Server	
Stealth	Select to enable stealth	



After saving the OpenVPN server, click [Network Settings] -> [VPN Server] -> [OpenVPN Certificate Download]:



This page is used for management of OpenVPN certificate file. After downloading the certificate, please upload the three certificates to the OpenVPN client.

#### L2TP

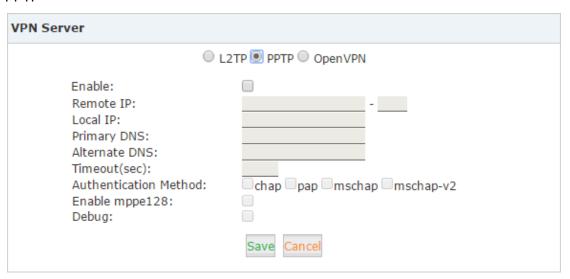




### L2TP Reference:

Item	Explanation
Enable	Enable/Disable L2TP
Remote Start IP	Input the remote start IP of L2TP Client which is provided by VPN
	provider
Remote End IP	Input the remote end IP of L2TP Client which is provided by VPN
	provider
Local IP	Set the local IP of L2TP server
Primary DNS	Set the primary DNS of L2TP server
Alternate DNS	Set the alternate DNS of L2TP server
Authentication	Select the authentication method: chap or pap
Method	
Debug	Enable/ Disable debug

# PPTP



# PPTP Reference:

Item	Explanation
Enable	Enable/Disable PPTP
Remote IP	Input the remote IP of PPTP server which is provided by VPN
	provider
Local IP	Set the local IP of PPTP server which is provided by VPN provider
Primary DNS	Set the primary DNS of PPTP server
Alternate DNS	Set the alternate DNS of PPTP server
Timeout(sec)	Timeout for disconnection of PPTP
Authentication	Select the authentication method: chap/ pap/ mschap/ maschap-v2
Method	
Enable mppe128	Enable/ Disable mppe128 encryption
Debug	Enable/ Disable debug

When the mode is saved as L2TP or PPTP VPN server, you need to edit the username and

password from the VPN Users Management.

Click [Network Settings] -> [VPN Server] -> [VPN Users Management]:



### 5.5 VPN Client

CooVox IP PBX supports four kinds of VPN Clients: L2TP/ PPTP/ OpenVPN/ N2N

Click [Network Settings] -> [VPN Client]:

# L2TP



### Reference:

Item	Explanation	
Enable	Enable this kind of VPN Client	
Server Address	Set a L2TP VPN server Address	
Username	Set the L2TP VPN username	
Password	Set the L2TP VPN password	
Default Gateway	Select to use default gateway	

### **PPTP**

VPN Client

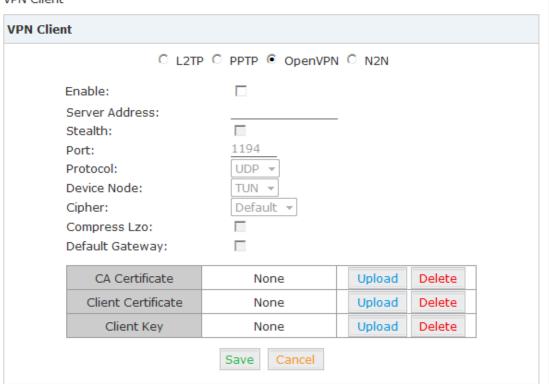


### Reference:

Item	Explanation
Enable	Enable this kind of VPN Client
Enable 40/128-bit	Select to enable this encryption for MPPE
encryption for MPPE	
Server Address	Set a PPTP VPN server Address
Username	Set the PPTP VPN username
Password	Set the PPTP VPN password
Default Gateway	Select to use default gateway

# **OpenVPN**

VPN Client



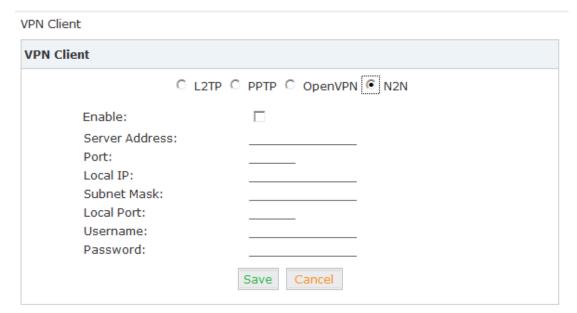


# Reference:

Item	Explanation	
Enable	Enable this kind of VPN Client	
Server Address	Set a OpenVPN server Address	
Stealth	Select to enable stealth	
Port/ Protocol/ Device	Once select OpenVPN, all of these information will be set by	
Node/ Cipher	default.	
Compress Lzo	Enable Compress Lzo	
Default Gateway	Select to use default gateway	

Note: To use OpenVPN, you must upload the CA Certificate/ Client Certificate/ Client Key.

# N2N

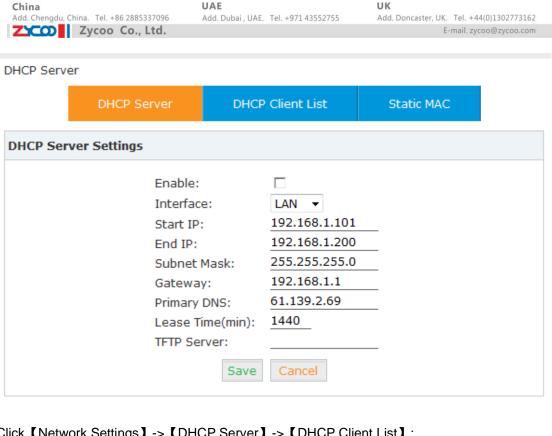


#### Reference:

Item	Explanation	
Enable	Enable this kind of VPN	
Server Address	Set a N2N VPN server Address	
Port	Input the port which is provided by VPN provider	
Local IP	Set the N2N client Local IP	
Subnet Mask	Set subnet mask	
Local Port	Set the N2N client Local Port	
Username	Set the N2N VPN username	
Password	Set the N2N VPN password	

### 5.6 DHCP Server

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



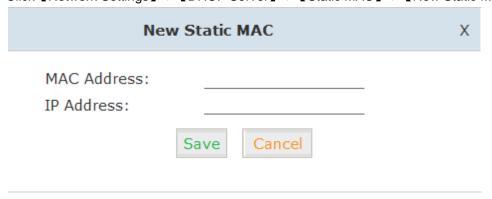
# Click [Network Settings] -> [DHCP Server] -> [DHCP Client List]:



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] :



# 5.7 DDNS Settings

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

DDNS Settings		
DE Us Pa	nable:  DNS Server:  sername: assword: omain:	dyndns.org
Status:Disabled	Sa	Cancel

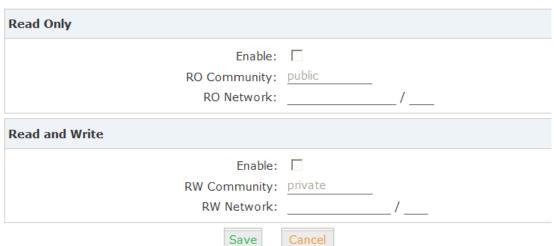
CooVox supports DDNS provided by Dyndns.org / No-ip.com / zoneedit.com.

# 5.8 SNMPv2 Settings

SNMP(Simple Network Management Protocol): Used for remote management.

# Click [Network Settings] -> [SNMPv2 Settings]:

SNMPv2 Settings



# SNMPv2 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	

# 5.9 TR069 Settings

China

TR069 (Technical Report 069) is a Broadband Forum (formerly known as DSL Forum) technical specification entitled CPE WAN Management Protocol (CWMP). It defines an application layer protocol for remote management of end-user devices.

Click [Network Settings] -> [TR069 Settings]:

#### TR069 Settings

TR069 Settings				
Enable:				
CPE to ACS URL:				
ACS Authentication Mode:	NONE ▼			
ACS Username:				
ACS Password:				
CPE Inform Interval(sec):	42200			
ACS to CPE URL:				
Save	Cancel			

### Reference

Item	Explanation
Enable	Enable TR069 service
CPE to ACS URL	URL to visit ACS, which is used by PBX to connect ACS via
	CPE WAN management protocol (CWMP)
ACS Authentication Mode	Select ACS Authentication Mode
ACS Username	When PBX send request to ACS, ACS will provide username to
	the authorized PBX.
ACS Password	When PBX send request to ACS, ACS will provide password to
	authorized PBX.
CPE Inform Interval (sec)	Interval for CPE to connect ACS
ACS to CPE URL	URL to visit CPE. Format: http://IP:port(7547), you must use
	this port.

# 5.10 Trouble Shooting

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

Click [Network Settings] -> [TroubleShooting]:



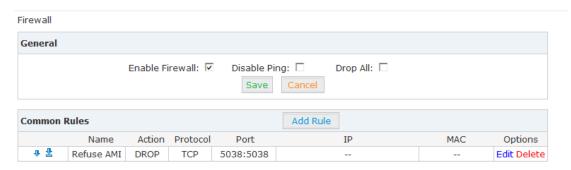
Add. Doncaster, UK. Tel. +44(0)1302773162 E-mail. zycoo@zycoo.com

# **Chapter 6** Security

### 6.1 Firewall

China

# Click [Security] -> [Firewall]



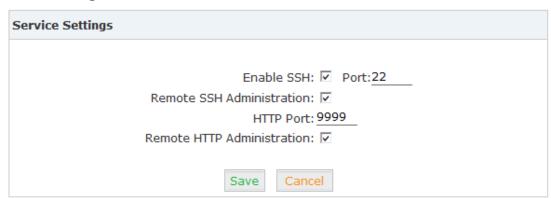
Auto Defense		Add Rule	
Port	Protocol	Rate	Options
5060	UDP	120/30s	Edit Delete
5060	UDP	40/2s	Edit Delete
5061	TCP	80/2s	Edit Delete
22	TCP	10/60s	Edit Delete

# 6.2 Service

【Service】: Settings of SSH/FTP and HTTP Port.

# Click [Security] -> [Service]:

Service Settings



Enable SSH to login background management system through SSH.

Enable FTP to allow uploading files to system through FTP.

# 6.3 SIP Allowed Address

The allowed IP address will be never filtered or refused by any SIP request. This will protect system to be attacked by other unallowed IP.

# Click [Security] -> [SIP Allowed Address]:





# **Chapter 7** Report

# 7.1 Register Status

Check status of all users & trunks.

# Click [Report] -> [Register Status]:

Register Status 🌣				
SIP Users Status	IAX2 Users Status	SIP Trunks Status	IAX2 Tr	unks Status
SIP Users Status:				
Response: Follows				
Privilege: Command				
Name/username	Host	Dyn Forcerport	ACL Port	Status
800/800	192.168.11.37	D N	5060	OK (8 ms)
801/801	(Unspecified)	D N	0	UNKNOWN
802	(Unspecified)	D N	0	UNKNOWN
803	(Unspecified)	D N	0	UNKNOWN
804	(Unspecified)	D N	0	UNKNOWN
805/805	(Unspecified)	D N	0	UNKNOWN
806	(Unspecified)	D N	0	UNKNOWN
307	(Unspecified)	D N	0	UNKNOWN
808	(Unspecified)	D N	0	UNKNOWN
809	(Unspecified)	D N	0	UNKNOWN
810	(Unspecified)	D N	0	UNKNOWN
811	(Unspecified)	D N	0	UNKNOWN
812	(Unspecified)	D N	0	UNKNOWN
813	(Unspecified)	D N	0	UNKNOWN
814	(Unspecified)	D N	0	UNKNOWN
15 sip peers [Monitored END COMMAND	: 1 online, 14 offline U	Inmonitored: 0 online	, 0 offline]	

### 【IAX2 Users Status】:



### 【SIP Trunks Status】:

Register Status 🌣					
	SIP Users Status	IAX2 Us	ers Status	SIP Trunks Status	IAX2 Trunks Status
Resp Priv Host 0 SI	Trunks Status: conse: Follows rilege: Command :: F registrations.	dnsmgr	Username	Refresh State	Reg.Time

#### 【IAX2 Trunks Status】:



### 7.2 Fax List

Fax List will display all the fax records. You can check the related information by searching the date or caller ID.

# Click 【Report】 -> 【Fax list】:

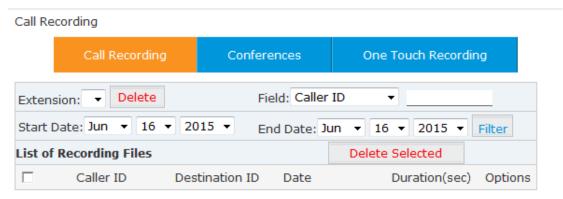


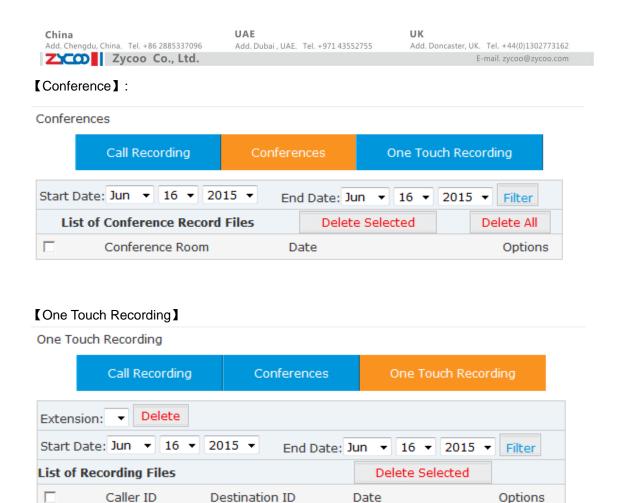


# 7.3 Record List

Check recordings of specified extension or conference here, or delete the recording file.

### 【Record List】:





# 7.4 Call Logs

Check call logs by caller ID or callee ID.

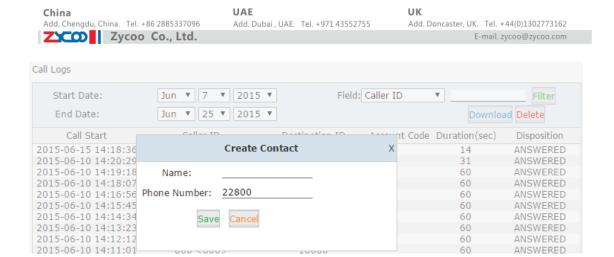
Click [Report] -> [Call Logs]:





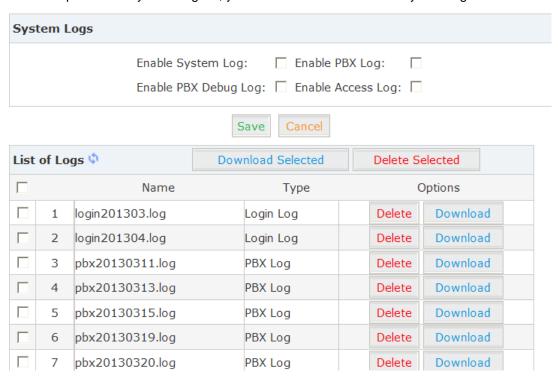
Duration in the call logs is not real charged duration. If you need billing, PSTN must support polarity reversal function, and meanwhile, you must configure relevance parameters of polarity reversal in trunk configuration for the CooVox IP PBX.

The number in the call logs can be added in the phone book directly, e.g.:



### 7.5 System Logs

Click 【Report】-> 【System Logs】, you can download/ delete the system logs.

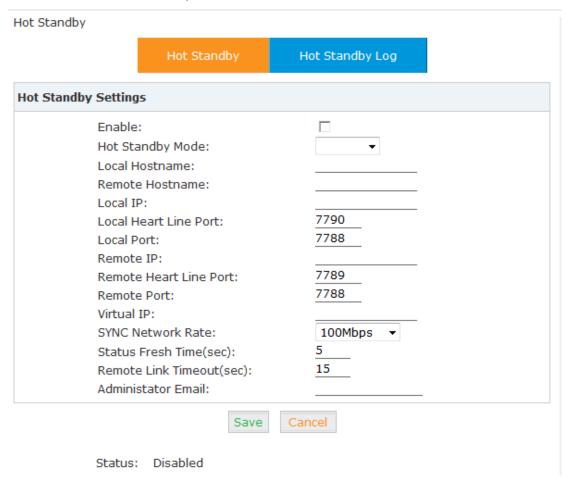


China

# Chapter 8 System

# 8.1 Hot Standby (For U100 only)

The function will working between the two Coovox-U100 devices. When the primary server failed, the slave server will replace it.



#### Reference:

Item	Explanation
Enable	Enable 'Hot Standby' function.
Hot Standby Mode	Set the local server hot standby mode.
Local Hostname	Set the local server host name.
Remote Hostname	Set the remote server host name
Local IP	Set the local server IP address.
Local Heart Line Port	Set the local server heart line port
Local Port	Set the local server port (default: 7788)
Remote IP	Set the remote server IP address
Remote Heart Line Port	Set the remote server heart line port

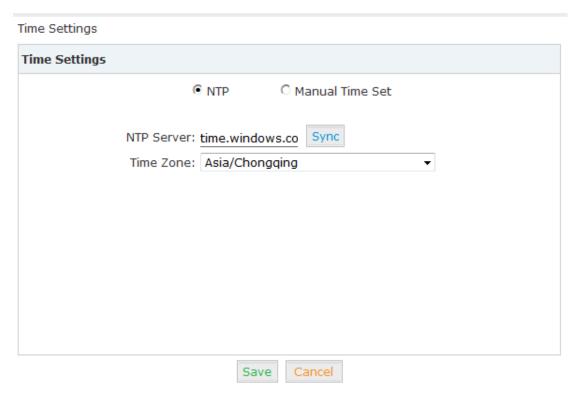
<b>China</b> Add. Chengdu, China. Tel. +86 2885337096	<b>UAE</b> Add. Dubai , UAE. Tel. +971 43552755	<b>UK</b> Add. Doncaster, UK. Tel. +44(0)1302773162
Zycoo Co., Ltd.		E-mail. zycoo@zycoo.com
		·/ l ( l =====)

Remote Port	Set the remote server port(default: 7788)	
Vintual ID	Set the virtual IP address. The primary server and	
Virtual IP	slave server must use same virtual IP address	
SYNC Network Rate	Select the server network rate.	
Status Fresh Time	Set the status fresh time(sec)	
Remote Link Timeout	Set the remote link timeout(sec)	
A Ladatatata E a a l	Set the administrator email, if the primary server	
Administrator Email	faults will send email to administrator.	
A desirate and a Discussion of the second	Set the administrator phone number, if the primary	
Administrator Phone Number	server faults will call administrator	

# 8.2 Time Settings

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

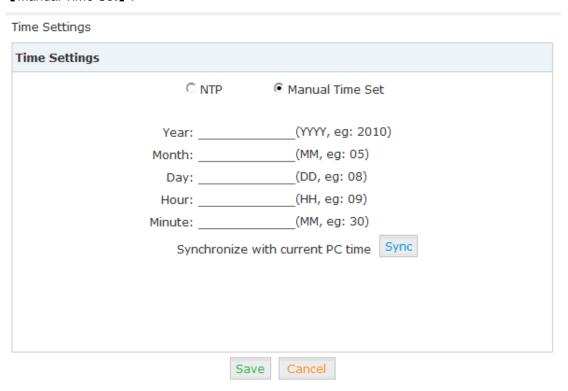
# 【NTP】:



# 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]:



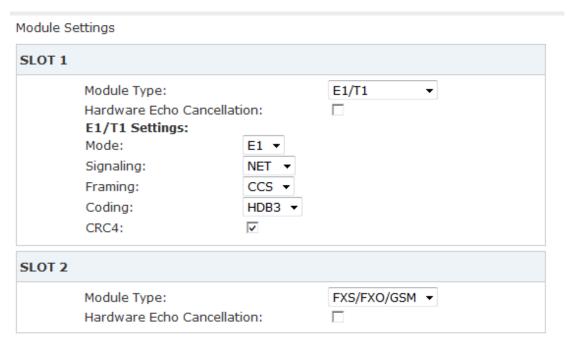
After entering Year/ Month/ Day/ Hour/ Minute, then save and activate. Or, you can click 【Sync】 to synchronize with current PC time.

# 8.3 Module Settings (Support for U50/U100)

When use the module except FXO/FXS/GSM. You need to set the module parameters with the page.

Click [System] -> [Module Settings]:

#### E1/T1 module



Module Type: Select the module type

FXS/FXO/GSM module
 Default type. You don't need set anything for

those modules.

• E1/T1 module

# Reference:

Item	Explanation
Mode	Set E1 or T1 mode for the module.
Signaling	Set the module signaling.
Framing	One of 'd4' or 'esf' for T1; 'cas' or 'ccs' for E1.
Coding	One of 'ami' or 'b8zs' for T1; 'ami' or 'hdb3' for E1.
CRC4	Enable CRC4 Verification.

# **FXS/FXO/GSM** module



Select the module from the drop list that you just installed and click 【Save】.

It's easier to configure the analog modules; if you wanna use Hardware Echo Cancellation, please ensure you have purchased and installed Zycoo Hardware Echo Cancellation Module.

Note: WCDMA will be displayed in next vision of usermanual.

#### ISDN BRI module



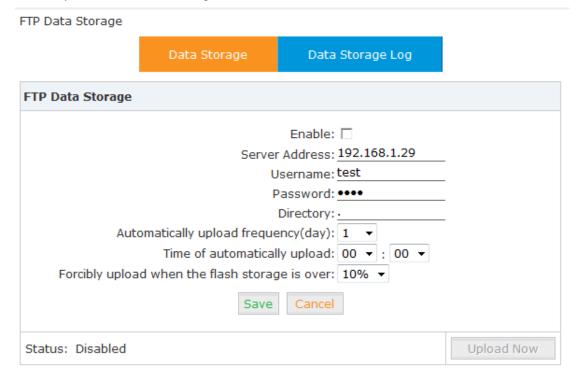
You need to configure the type of 4 ports after ISDN BRI module type is selected. The type of ports include: TE\_PTP, TE\_PTMP, NT\_PTP。

If you purchased and installed Hardware Echo Cancellation Module, please check it here.

# 8.4 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]:



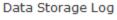
Add. Doncaster, UK. Tel. +44(0)1302773162

E-mail. zycoo@zycoo.com

#### 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	Define frequency by days to upload the data.		
frequency (day)			
Time of automatically	Define the time to upload the data.		
upload			
Forcibly upload when the	Forcibly upload data when flash storage is over the		
flash storage is over	percentage value.		

# Check 【Data Storage Log】:





### **404 Not Found**

The requested URL was not found

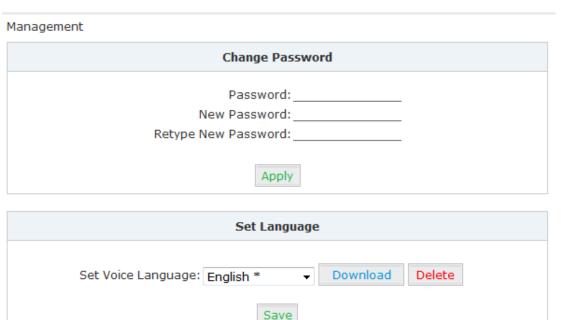
Click 【Refresh】 to refresh data storage log.

Click 【clear】 to clear data storage log.

# 8.5 Management

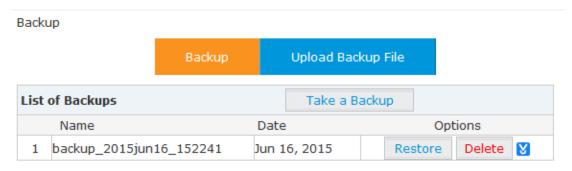
[Management] is used to modify password of CooVox system, and the settings of system voice.

# Click [System] -> [Management]:



# 8.6 Backup

# Click [System] -> [Backup]

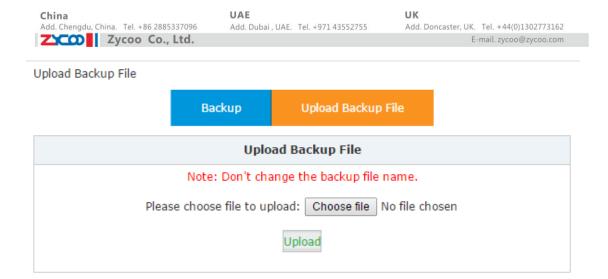


#### Reference:

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 "\sum " to download the specified backup file and manage locally.

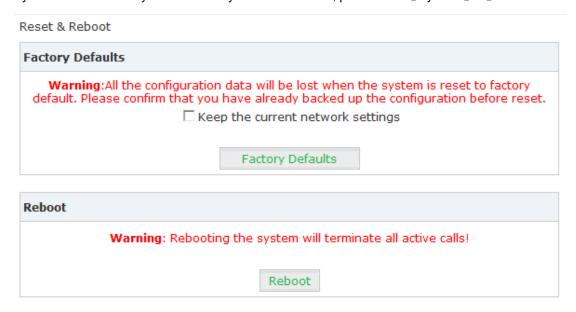
Click 【Upload Backup File】 to upload the backup file here.



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

#### 8.7 Reset & Reboot

If you need reset the system to factory defaults or reset, please click (System) -> (Reset & Reboot):



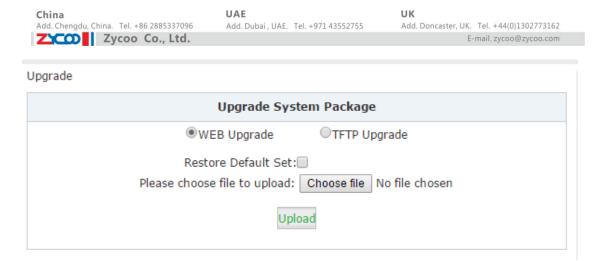
Click [Factory Defaults] to reset the system to factory defaults.

Click 【Reboot】 to reboot the system.

### 8.8 Upgrade

### 8.8.1 WEB Upgrade

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

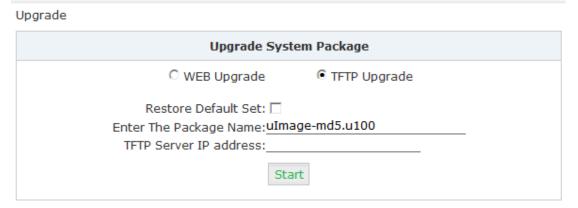


Click [Browse] to select the firmware file, then click [Upload] to upload the selected firmware to system and finish the upgrading automatically.

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

# 8.8.2 TFTP Upgrade

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



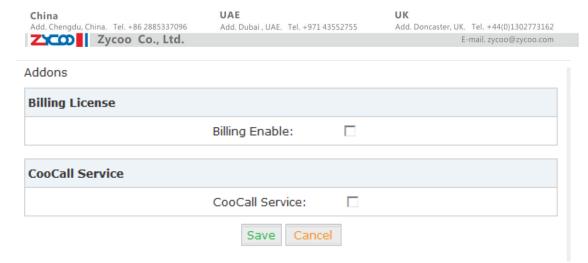
### Reference:

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.	

### 8.9 Addons

Zycoo CooVox IP PBX has intergrated with CooBill and CooCall service. Customers can use these services by the following settings.

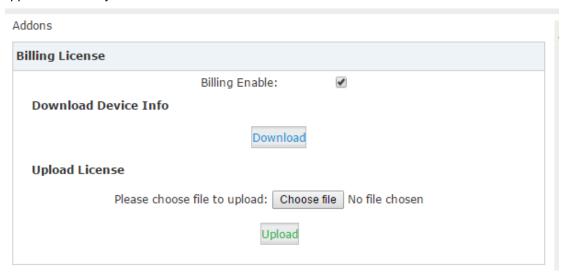
# Click [System] -> [Addons]:



CooBill is designed to integrate with our CooVox Series IP Phone Systems. Its primary purpose is to aid enterprises in managing their telecommunication billing process, and allow them to access a detailed account list of daily calls or to produce bills for customers.

CooCall App is the free softphone App based on Android and iOS to be integrated with the zycoo PBX platform.

After your CooVox has successfully upgraded, you will find that the sub-menu "License" now appears in the "System" menu:



Click "Download" to download a licensing information file from your CooVox system. The file will be named license.raw

Once you have the downloaded file you need to contact ZYCOO sales who will issue you with permit license that is required to activate the billing feature on your system.

After receiving your permit license, upload it in the upload license section of the license screen.

Finally, after the upload has completed successfully, you need to reboot the system to allow the billing feature to take effect.

Click "Yes" to reboot system as below:

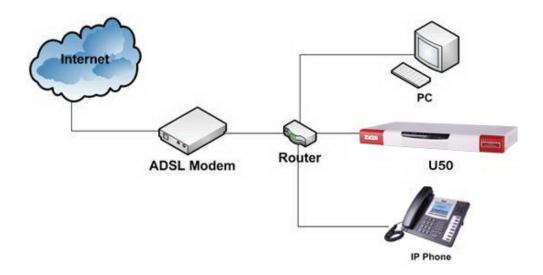


# **Chapter 9 Operating Instructions**

(Take CooVox-U50 as example)

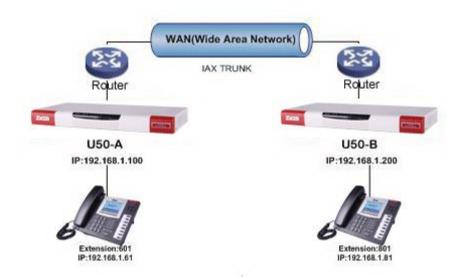
# 9.1 How to connect CooVox-U50 in the Network

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.



### 9.2 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:





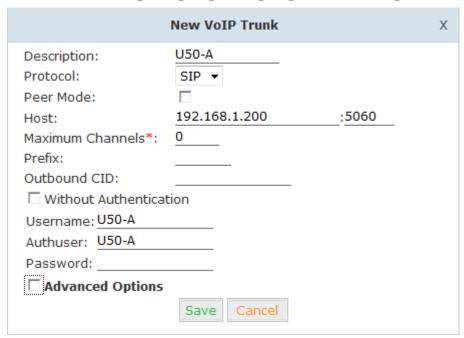
Register U50-B IP to a trunk of U50-A, and register U50-A IP to a trunk of U50-B, without authentication for each registration.

### 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]:

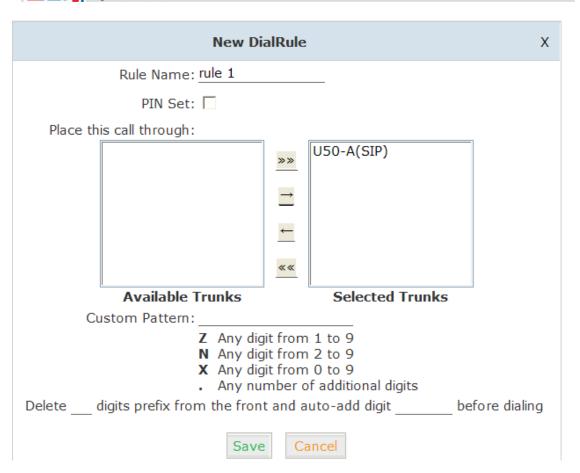


Step2: Register U50-A IP to a trunk of U50-B as the same way of step 1.

Step 3: Create DialRule on U50-A, and add the DailRule to the DialPlan

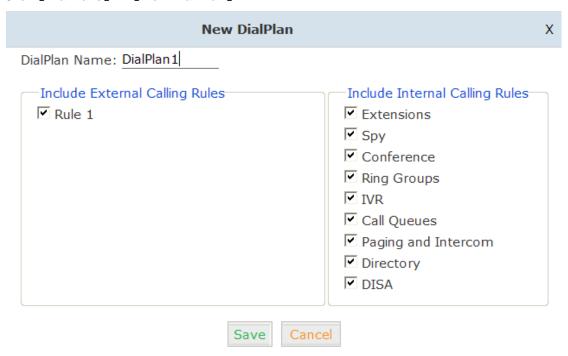
Click [Outbound Routes] -> [DialRules] -> [New Dial Rule]:

Add. Doncaster, UK. Tel. +44(0)1302773162 E-mail. zycoo@zycoo.com



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

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



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

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### Step 3.

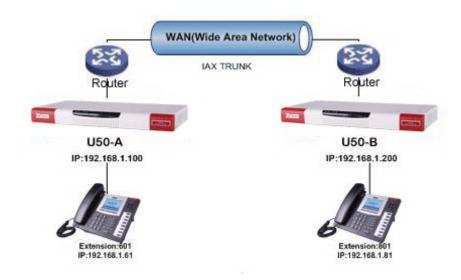
Step 5: Activate the current configuration and test:

- 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.

### 9.3 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

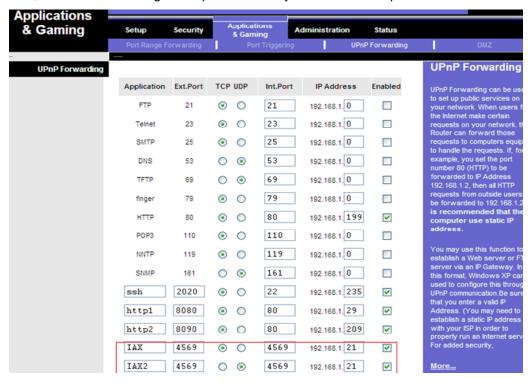
Sometimes U50 doesn't have public IP, and you have to configure port mapping for your router.



**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

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.



# Notice

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.

### 9.4 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】:

NAT Support		
Ex	ernal IP:	_
Exte	al Host:	_
External Refr	sh(sec):	
Local Network	Address:	_

External IP
 External IP or domain to replace the device IP
 External Host
 External domain to replace the device IP
 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

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

#### 9.5.1 Visit the Top-up Page

Visit the top-up page: <a href="http://www.skype.com/en/rates/">http://www.skype.com/en/rates/</a>

Select subscription, payment method and enter the Skype account to top up credit.



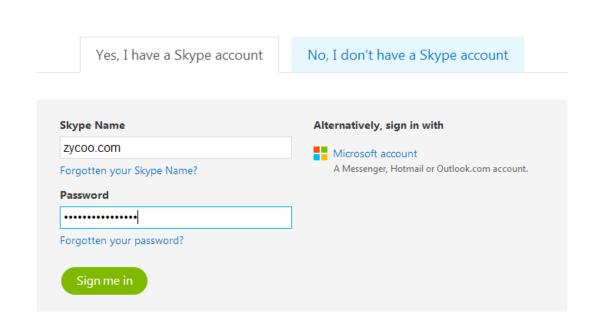
#### Notice

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

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# 9.5.2 Manage Skype Account

Sign in with your business account from https://login.skype.com,



After login, you will find the "Skype Connect" at the bottom of the "Dashboard" page. (Also you can find "Skype Connect" at the bottom of "Feature" page.

Add. Dubai , UAE. Tel. +971 43552755

Add. Doncaster, UK. Tel. +44(0)1302773162 E-mail. zycoo@zycoo.com

# **Account Balance**

Your current balance is €0,30. See auto-recharge settings

You have €0,00 of allocations scheduled. Review payments

This is 0.00% of your current balance. Buy credit

# Members

Your Skype Manager has 2 members Add members

#### Since you last signed in

No changes since you last logged in.

#### Still unresolved

One unresolved invite

Allocate Skype Credit to your members

Set up Subscriptions for your members

Set up Skype Numbers for your members

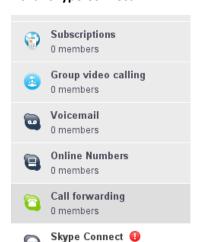
Set up Call forwarding for your members

Set up Voicemail for your members

10 profiles set up for Skype Connect

# 9.5.3 Create a SIP File

### Click Skype Connect:



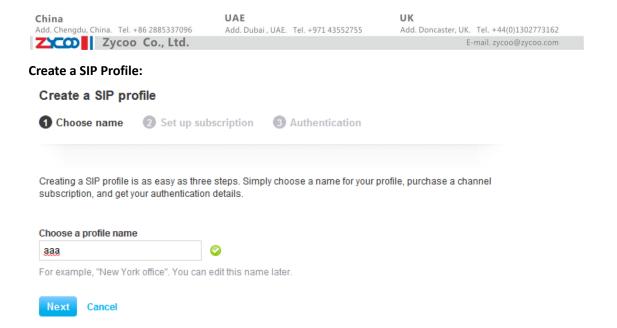
3 profiles

Connect your existing SIP-enabled PBX to Skype with Skype Connect. Learn more

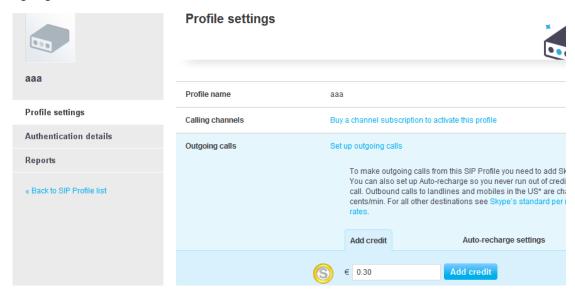
Some of your SIP Profiles have been suspended because your Skype Manag has insufficient credit available to pay for the channel subscription. Buy more credit and the profiles will be reactivated.

Your SIP Profiles

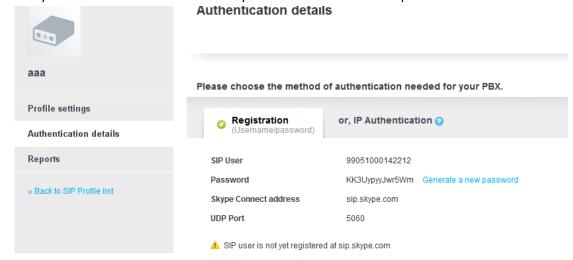
Set up a SIP Profile



Create a SIP account and each account has a channel, you need pay €4.95 for each channel as monthly rent. Then input the registration profile in the VoIP trunk of CooVox IP PBX and distribute money for outgoing calls.



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



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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: <a href="mailto:support@zycoo.com">support@zycoo.com</a> or phone: 0086 28 85337096.