

User Manual

Version 1.4.0

Synway Information Engineering Co., Ltd www.synway.net



Content

Content		i
Copyright [Declaration	iv
Revision Hi	istory	v
Chapter 1	Product Introduction	1
1.1 Typica	al Application	1
1.2 Featu	re List	2
Chapter 2	Quick Guide	5
Chapter 3	WEB Configuration	6
3.1 Syster	m Login	6
	S	
3.2.1 Sy	stem Status	6
3.2.1.1	System Info	6
3.2.1.2		
	.1 LAN	
	.2 WAN	
3.2.1.3	Performance	
3.2.1.4	3 3	
	SX Status	
3.2.2.1	Extension Trunk	
	all Detail Becards	
	all Detail Records	
3.4.1 Ex 3.4.1.1	densionsBasic	
3.4.1.1 3.4.1.2	Features	
3.4.1.3	Advanced	
	tension Groups	
	unks	
	Basic	
3.4.3.2	CODEC	
3.4.3.3	Advance	
3.4.3.4	DOD	15
3.4.3.5	Adapt Caller ID	
3.4.4 Ink	bound Routes	15
	utbound Routes	
	utbound Restrictions	
	itoCLIP	
	C Routes	
	me Condition	
	all Features	
3.4.10.1	IVR Conference Room	
3.4. IU.Z	CONTRICTED TO CONTRACT TO CONTRACT TO CONTRICT TO CONT	19

Synway Information Engineering Co., Ltd

3.4.10.3		
	.1 Basic	
3.4.10.3	.2 Caller Experience Settings	21
3.4.10.4	Intercept Groups	
3.4.10.5	Ring Groups	
3.4.10.6	BlackList	
3.4.10.7	PIN Numbers	
3.4.10.8	Speed Dial	
3.4.10.9	Call Broadcasts	
	DISA	
3.4.10.11	Call Back	
	Wakeup Services	
	Emergencies	
	ture Code	
	ce Prompts	
3.4.12.1	Voice Prompts	
3.4.12.2	System Prompt	28
3.4.12.3	Music On Hold	28
3.4.12.4	Custom Prompt	28
3.4.13 Void	cemail	
	cords	
	ference	
	Settings	
	gular Expression	
	1	
	work Settings	
3.5.1.1	Basic Settings	
3.5.1.2	Static Routes	
	curity Strategy	
3.5.2.1	Security Strategy	
3.5.2.2	Service	
	e Time Settings	
	rage	
3.5.4.1	Preference	
3.5.4.1.1	5	
	2 Storage Devices	
3.5.4.2	Auto Cleanup	
3.5.4.2.1	CDR Auto Cleanup	
3.5.4.2.2		
3.5.4.2.3	B Recordings Auto Cleanup	36
3.5.4.2.4	Logs Auto Cleanup	36
3.5.4.2.5	5 Backups	36
3.5.5 Use	er Permission	37
3.5.5.1	Users	37
3.5.5.2	User Group	
3.5.6 Eve	ent Setting	
3.5.6.1	System Settings	
3.5.6.2	PBX Settings	
3.5.6.3	Notification Contacts	
	ail Settings	
	ntralized Manage Setting	
	nance	
, -	grade	
	poot	
	Resture	
3.6.3.1	Backup	
3.6.3.2	Restore	40



Synway Information Engineering Co., Ltd

3.6.3.3 Backup Lists	40
3.6.3.3 Backup Lists	40
3.6.5 PBX LOG	40
3.6.6 Operation Log	40
3.6.7 Log Viewer	40
3.6.8 Trouble Shooting	41
3.6.9 Authorization	41
3.6.9.1 Authorization Info	41
3.6.9.2 Upload Authorization File	41
3.6.9.3 Clear Authorization	41
3.6.10 Event Log	41
Appendix A Troubleshooting	42
Appendix B Technical/sales Support	44



Copyright Declaration

All rights reserved; no part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, without prior written permission from Synway Information Engineering Co., Ltd (hereinafter referred to as 'Synway').

Synway reserves all rights to modify this document without prior notice. Please contact Synway for the latest version of this document before placing an order.

Synway has made every effort to ensure the accuracy of this document but does not guarantee the absence of errors. Moreover, Synway assumes no responsibility in obtaining permission and authorization of any third party patent, copyright or product involved in relation to the use of this document.



Revision History

Version	Date	Comments
Version 1.4.0	2019-02	Initial publication

Note: Please visit our website http://www.synway.net to obtain the latest version of this document.



Chapter 1 Product Introduction

Thank you for choosing the Synway IPPBX Series products which provide excellent VoIP solutions for Enterprise Unified Communications, Customer Service Center, Hotel Voice Communications, etc.

1.1 Typical Application

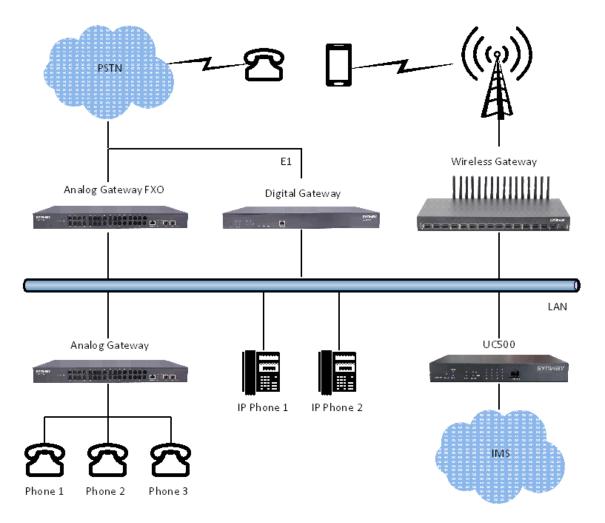


Figure 1-1 IPPBX Typical Application

Main functions in typical applications:

Enterprise Unified Communications: Extension, trunk, route, CDR, call recording, IVR, voicemail, teleconference, call forwarding, time condition, monitoring, mobile extension, intercepting, etc.

Customer Service/Call Center: Extension, trunk, route, CDR, call recording, queue, monitoring, call forwarding, time condition, etc.

Hotel Communications: Extension, trunk, switchboard, alarm service, broadcast, etc.



1.2 Feature List

Basic Features	Description
Extension	Allow users to make calls from extension to extension after registering SIP extensions to IPPBX.
Trunk	Allow extension users to make incoming and outgoing calls by SIP and FXO trunks with the help of inbound and outbound routes.
Inbound Routes	Enable forwarding calls from SIP or FXO trunks to internal extensions, IVR, conference, call center, DISA, callback systems, etc.
Outbound Routes	Enable making calls from extensions to external PSTN users.
CDR	Allow users to query and download detailed call records by condition on the webpage.
Call Recording	Record extensions, trunks, conferences, call centers; query, play and download the recording.
Call Forwarding	Extensions can be forwarded on different conditions such as 'Always', 'On Busy', 'No Answer', or 'Not Registered'. Meanwhile, time condition settings are supported.
Call Waiting	This feature allows an FXS extension to receive another call while on the phone. It will make the feature of transfer on busy invalid.
Hotline	If an extension on the FXS port doesn't dial out within the set time after it is picked up, the preset number will be called automatically.
Do Not Disturb	Reject all incoming calls to this extension.
Mobile Number	Multiple mobile numbers can be set for an extension to avoid missing any call to it.
Monitor	Support monitoring modes All, Listen, Whisper, Barge-in and monitoring authorities Disable, Enable All, Extensions to set for an extension.
Voicemail	Each extension supports an independent voicemail box as well as sending messages to a designated E-mail address.
Fax	Support T.38 fax extension and fax gateway modes.
Extension Security	Guarantee the security of extensions by password, ACL, UserAgent, etc.
Communication without Power	Enable a connection of the station which is linked with the FXS port and the trunk which is linked with the FXO port to keep the calls between the FXS and FXO ports uninterrupted during power outage.
IVR	Customize multi-level IVR.
Call Center Queue	Customize call center queues, providing multiple station ringing strategies to satisfy a variety of applications.
Conference	Support teleconferencing with more than 30 parties.
AutoCLIP	Redirect call to original extension.

Ring Groups	Set a group of extensions into a ring group. When the callers call the ring group, all available extensions will ring simultaneously or sequentially (up to different ringing strategies).	
Intercept Groups	Support interception of inside calls in a group and calls of specified extensions.	
Call Broadcasts	Meet such requirements as broadcasting system.	
Call Parking	Allow users to "park" a phone call with a parking extension number, placing it on hold to be answered on a softphone or any other phone in the office. The caller is put on hold while users switch phones.	
Blacklist	Numbers in the blacklist will be blocked to call in, or called, or both. It supports two modes: Exact Match and Regex Match.	
DISA	Enable outside users using PBX service just like the system extensions to make calls.	
Callback	Hang up the specified callers and let the PBX call them back.	
Speed Dial	Customize a short number that allows fast dialing of your frequently used numbers so that you can place a call by pressing a reduced number of keys without having to look up his/her phone number.	
Time Condition	This feature is supported for inbound routes, call forwarding, mobile extensions, etc.	
PIN Code	This feature is supported for outbound routes, DISA, conference, voicemail, etc.	
Cianalina & Duatagal	Description	
Signaling & Protocol	Description	
SIP Signaling	Supported protocol: SIP V1.0/2.0, RFC3261	
	·	
SIP Signaling	Supported protocol: SIP V1.0/2.0, RFC3261 CODEC G.711A, G.711U, G.729	
SIP Signaling Voice	Supported protocol: SIP V1.0/2.0, RFC3261 CODEC G.711A, G.711U, G.729 DTMF Mode RFC2833, RFC4733, SIP INFO, INBAND	
SIP Signaling Voice Network	Supported protocol: SIP V1.0/2.0, RFC3261 CODEC G.711A, G.711U, G.729 DTMF Mode RFC2833, RFC4733, SIP INFO, INBAND Description Supported protocol: TCP/UDP, TLS, SSH, HTTPS, ARP/RARP, DNS, NTP,	
SIP Signaling Voice Network Network Protocol	Supported protocol: SIP V1.0/2.0, RFC3261 CODEC G.711A, G.711U, G.729 DTMF Mode RFC2833, RFC4733, SIP INFO, INBAND Description Supported protocol: TCP/UDP, TLS, SSH, HTTPS, ARP/RARP, DNS, NTP, TFTP, TELNET, STUN.	
SIP Signaling Voice Network Network Protocol Static IP	Supported protocol: SIP V1.0/2.0, RFC3261 CODEC G.711A, G.711U, G.729 DTMF Mode RFC2833, RFC4733, SIP INFO, INBAND Description Supported protocol: TCP/UDP, TLS, SSH, HTTPS, ARP/RARP, DNS, NTP, TFTP, TELNET, STUN. IP address modification support.	
SIP Signaling Voice Network Network Protocol Static IP DHCP	Supported protocol: SIP V1.0/2.0, RFC3261 CODEC G.711A, G.711U, G.729 DTMF Mode RFC2833, RFC4733, SIP INFO, INBAND Description Supported protocol: TCP/UDP, TLS, SSH, HTTPS, ARP/RARP, DNS, NTP, TFTP, TELNET, STUN. IP address modification support. IP address dynamic allocation support.	
SIP Signaling Voice Network Network Protocol Static IP DHCP DNS	Supported protocol: SIP V1.0/2.0, RFC3261 CODEC G.711A, G.711U, G.729 DTMF Mode RFC2833, RFC4733, SIP INFO, INBAND Description Supported protocol: TCP/UDP, TLS, SSH, HTTPS, ARP/RARP, DNS, NTP, TFTP, TELNET, STUN. IP address modification support. IP address dynamic allocation support. Domain Name Service support.	
SIP Signaling Voice Network Network Protocol Static IP DHCP DNS Security	Supported protocol: SIP V1.0/2.0, RFC3261 CODEC G.711A, G.711U, G.729 DTMF Mode RFC2833, RFC4733, SIP INFO, INBAND Description Supported protocol: TCP/UDP, TLS, SSH, HTTPS, ARP/RARP, DNS, NTP, TFTP, TELNET, STUN. IP address modification support. IP address dynamic allocation support. Domain Name Service support. Description	
SIP Signaling Voice Network Network Protocol Static IP DHCP DNS Security ACL	Supported protocol: SIP V1.0/2.0, RFC3261 CODEC G.711A, G.711U, G.729 DTMF Mode RFC2833, RFC4733, SIP INFO, INBAND Description Supported protocol: TCP/UDP, TLS, SSH, HTTPS, ARP/RARP, DNS, NTP, TFTP, TELNET, STUN. IP address modification support. IP address dynamic allocation support. Domain Name Service support. Description This feature is supported for extension registration and WEB access, etc. Allow users to customize dynamic firewall strategies to guarantee the security	
SIP Signaling Voice Network Network Protocol Static IP DHCP DNS Security ACL Auto Defense	Supported protocol: SIP V1.0/2.0, RFC3261 CODEC G.711A, G.711U, G.729 DTMF Mode RFC2833, RFC4733, SIP INFO, INBAND Description Supported protocol: TCP/UDP, TLS, SSH, HTTPS, ARP/RARP, DNS, NTP, TFTP, TELNET, STUN. IP address modification support. IP address dynamic allocation support. Domain Name Service support. Description This feature is supported for extension registration and WEB access, etc. Allow users to customize dynamic firewall strategies to guarantee the security of system and network.	
SIP Signaling Voice Network Network Protocol Static IP DHCP DNS Security ACL Auto Defense TLS&SRTP	Supported protocol: SIP V1.0/2.0, RFC3261 CODEC G.711A, G.711U, G.729 DTMF Mode RFC2833, RFC4733, SIP INFO, INBAND Description Supported protocol: TCP/UDP, TLS, SSH, HTTPS, ARP/RARP, DNS, NTP, TFTP, TELNET, STUN. IP address modification support. IP address dynamic allocation support. Domain Name Service support. Description This feature is supported for extension registration and WEB access, etc. Allow users to customize dynamic firewall strategies to guarantee the security of system and network. Guarantee the security of signaling and voice communications.	



Synway Information Engineering Co., Ltd

Language	Chinese, English.
Software Upgrade	Support of user interface, IPPBX service, kernel and firmware upgrades based on WEB.
Tracking Test	Support of Ping and Tracert tests based on WEB.
SysLog Type	ERROR, WARNING, NOTICE, INFO, DEBUG, CONSOLE



Chapter 2 Quick Guide

This chapter is intended to help you grasp the basic operations of the UC series IPPBX products in the shortest time.

Step 1: Confirm that your packing box contains all the following things.

- UC200/UC500 *1
- UC200: External 12V Power Adapter *1; UC500: Built-in 220V Power Adapter *2
- Warranty Card *1
- Installation Manual *1

Step 2: Connect the network cable.

Connect the LAN port of UC500 with the network cable of the PC, or connect it to the router or PBX. Configure the IP address of the PC to 192.168.0.200 and then you can go https://192.168.0.101 to visit the webpage of UC500.

Go to the page <u>Network Settings</u> to configure the actual IP address, subnet mask, gateway, etc. Then use the modified IP to visit the webpage of UC500.

Step 3: Add and configure SIP extensions.

Go to the page <u>Extensions</u> to add SIP extensions. Modify extension settings and enable necessary functions according to your requirements. After that, you can perform a dial from extension to extension.

Step 4: Add and configure SIP trunks.

Go to the page <u>Trunks</u> to add SIP trunks and modify trunk settings according to your requirements.

Step 5: Add call features.

Go to the page <u>Call Features</u> to add necessary call features, such as IVR menus, conference rooms, call center queues, ringing groups, etc.

Step 6: Add inbound routes.

Go to the page <u>Inbound Routes</u> to add inbound routes and set route destinations, such as extensions, IVR menus, conference rooms, call center queues, ringing groups, etc.

Step 7: Add outbound routes.

Go to the page <u>Outbound Routes</u> to add outbound routes and set member extensions for each route.

Special Instructions:

- The chassis of the UC series IPPBX product must be grounded for safety reasons, according to standard industry requirements. A simple way is earthing with the third pin on the plug or the grounding studs on the machine. No or improper grounding may cause instability in operation as well as decrease in lightning resistance.
- As the device will gradually heat up while being used, please maintain good ventilation to prevent sudden failure, ensuring that the ventilation holes are never jammed.
- During runtime, if the SYS indicator doesn't flash regularly and you cannot figure out and solve the problem by yourself, please contact our technicians for help. Otherwise it may lead to a drop in performance or unexpected errors.



Chapter 3 WEB Configuration

3.1 System Login

Make sure the LANs of PC and IPPBX are in the same network segment. Enter the default IP address of IPPBX https://192.168.0.101 to log in the web interface.

The original username and password are both admin. After login, you can add users and set users' access authority, as well as modify the username and password.

Note: We suggest you use those browsers Chrome 67, Firefox60, IE11 or above versions to ensure the normal access of the management interface.

WAN IP: 192.168.1.101;

LAN IP: 192.168.0.101.

3.2 Status

It includes two parts: System Status and PBX Status.

3.2.1 System Status

3.2.1.1 System Info

Item	Description
System Time	Current system time of IPPBX
Up Time	Running time of IPPBX since startup
Product	UC200/UC500
Serial Number	Unique identifier of the device
Max Sessions	The default value for UC200 is 15 and that for UC500 is 30. It can be authorized.
Max Extensions	The default value for UC200 is 60 and that for UC500 is 150. It can be authorized.
uboot	Version information of the current uboot
kernel	Version information of the kernel
version	Version information of the current software

3.2.1.2 Network

3.2.1.2.1 LAN

Item	Description
TYPE	Static IP
MAC	MAC address of LAN
IP Address	IP address of LAN
Gateway	Gateway address which displays only when LAN is the default network interface



Subnet Mask	Information about subnet mask
Preferred DNS Server	Information about preferred DNS server
Alternate DNS Server	Information about alternate DNS server
Network State	When the network cable is well connected and the network goes normal, here displays connection. If the network cable is not connected or the network is unreachable, here displays disconnection.

3.2.1.2.2 WAN

Item	Description
TYPE	Static IP, DHCP or PPPoE
MAC	MAC address of WAN
IP Address	IP address of WAN
Subnet Mask	Information about subnet mask
Preferred DNS	Information about preferred DNS server
Server	
Alternate DNS	Information about alternate DNS server
Server	
	When the network cable is well connected and the network goes normal, here
Network State	displays connection. If the network cable is not connected or the network is
	unreachable, here displays disconnection.

3.2.1.3 Performance

Item	Description
CPU	Real-time display of current CPU utilization
MEMORY	Real-time display of current memory utilization
LAN	Real-time display of current rate of LAN
WAN	Real-time display of current rate of WAN

3.2.1.4 Storage Usage

Item	Description
Flash	Display of total and used storage of the built-in flash card as well as the utilization
TF	Display of total and used storage of the outer TF card as well as the utilization
USB	Display of total and used storage of the outer USB card as well as the utilization

3.2.2 PBX Status

3.2.2.1 Extension

Item	Description
Status	For a SIP trunk, display of status: unregistered/registered/ringback/ringing/talking;

	for an FXO trunk, display of status: idle/ringback/ringing/talking.
Extension	Extension number
Name	Name of the extension user
Туре	Extension type, FXS or SIP
IP and Port	For a SIP trunk, display of IP address and port number; for an FXS trunk, display of
	physical port number.

3.2.2.2 Trunk

Item	Description
Trunk Name	User-defined name of the trunk
Туре	Trunk type, FXO or SIP
	For an FXO trunk, display of status: unusable/idle/in use; for a SIP peer trunk,
Trunk Status	display of status: unmonitored/unusable/usable; for a SIP Regiter trunk, display of
	status: fail to register/registered.
Domainname/IP/Port	For a SIP extension, display of domain name/IP address of the registered IP/Soft
	phone; for an FXO extension, display of physical port number.

3.3 CDR

3.3.1Call Detail Records

See below for all kinds of query conditions of call records.

Basic	Description
Time Range	Query CDR according to the start and end times.
Source	Usually it is the calling party number.
Destination	Number of the call destination
Direction	Three options available: Inbound, Outbound and Local
Status	Include such options as Answered, Missed, Voicemail, Cancelled, Failed, etc.
Talk Duration	Query CDR according to the time length of the call.
Advanced	Description
Hangup Cause	Query CDR according to the reason why the call ends.
4400.0	Query CDR according to Mean Opinion Score (MOS) which is a measure of voice
MOS Score	quality.
CID Name	Query CDR according to the name of caller identification (CID).
Caller Destination	Query CDR according to the original destination of the caller.
Gateway Name	Query CDR according to the used trunk name.
Outbound CallerId	Overv CDD according to the calling party number of the outgoing call
Number	Query CDR according to the calling party number of the outgoing call.



3.4 PBX

3.4.1 Extensions

3.4.1.1 Basic

General	Description
Туре	Extension type, SIP or FXS
	Extension number consists of all digits, with the default value range of 1000~5899
Extension	which can be modified in 'PBX->Preference->Extension Preferences'.
D	It is generated randomly during the creation of a SIP extension and can be modified
Password	by users.
Enabled	Set whether to enable the extension or not. By default it is set to true.
Max Registrations	Maximum amount of registrations of this SIP extension, with the default value of 3.
Effective Caller ID	
Number	The callerID number for this extension to call outbound, i.e. the UserName field.
UserInfo	Description
Name	The callerID number for this extension to call outbound, i.e. the DisplayName field.
Han Bannand	The password for this extension user to log into the system. Username is Name,
User Password	while the default password is 'Pass' plus the extension number.
Voicemail Mail To	The email address to send voicemail to
Mobile Number	Fill in the mobile phone number of this extension user.
	The language of voice prompts. Three options available: System Default, Chinese
Prompt Language	and English. System Default means to use the same language as set in Voice
	Prompts.

3.4.1.2 Features

Voicemail	Description
Voicement Freshod	Once this feature is enabled, the call to this extension will enter the voicemail if
Voicemail Enabled	failed. By default, the setting is True.
14.	The password to enter the extension voicemail which is a randomly generated value
Voicemail Password	by default and can be modified by users.
Voicemail Keep	Set whether to save the voicemail at IPPBX after it is sent with a specified email. By
Local	default, the setting is True.
	Set the way to send the voicemail. Audio File Attachment: Send the voice message
Voicemail File	via email attachment; Download Link: Send the voice message via link. The latter is
	the default setting.
Monitor	Description
Alle	Set if this extension can be monitored or not.
Allow being	*Disable: Not allow to be monitored, as default.
monitored	*Enable All: Allow all extensions to monitor.*Extensions: Select extensions to



	monitor.
	Set the mode in which this extension monitors other ones. The default setting is None
	None: You will not be allowed to monitor calls;
Manitan Mada	All: All the following 3 modes will be available for use;
Monitor Mode	Listen: You can only listen into the call, but cannot talk (default feature code:*90)
	Whisper: You can talk to the extension you are monitoring without being heard by
	the other parties (default feature code: *91)
	Barge-in: You can talk to both parties (default feature code: *92)
Call Forwarding	Description
Always	Always redirect calls to the designated destination within the period set by the
Always	following time condition select box. The default setting is Disabled.
On Busy	Redirect calls to the designated destination if the extension is busy within the period
Oli Busy	set by the following time condition select box. The default setting is Disabled.
No Answer	Redirect calls to the designated destination if not answered within the period set by
NO Aliswei	the following time condition select box. The default setting is Disabled.
	Redirect calls to the designated destination if the extension is not registered within
Not Registered	the period set by the following time condition select box. The default setting is
	Disabled.
Follow Me	Description
	Bind a target number (internal extension or external number) to this extension.
Follow Me	When there is an incoming call, both original and bind numbers will ring at the same
1 onow me	time so that the agent could pick up the call in different locations. The external
	number will go out through SIP trunks.
Do Not Disturb	Description
Do Not Disturb	When DND is enabled for an extension, it will reject all incoming calls. The default
Do Not Distarb	setting is Disabled.

3.4.1.3 Advanced

RTP Settings	Description
Enable SRTP	When this feature is enabled, the RTP stream is encrypted, sharing the same
	certification with TLS. The default setting is False.
SIP Bypass Media	Set whether to send the media stream point to point or in transparent proxy mode.
RTP Codec String	Set RTP Codecs. So far G711A, G711U, G729, G722 are supported.
Register Settings	Description
AuthACL	Once enabled, only the IP address or IP segment that matches the setting will be
	able to register this extension number. For example, 192.168.1.235/24 means all IP
	addresses in the segment of 192.168.1 are allowed to register; 192.168.1.235/32
	means only the address 192.168.1.235 is allowed to register. By default it is null.
Online Detection	Send the OPTIONS message to this extension to check if it is registered and
	reachable. The default setting is False.
SIP Force Expires	Calculated by second. The default value 0 means using the registration validity of

	CID outonaione while other values mean compulaivaly using the registration validity
	SIP extensions while other values mean compulsively using the registration validity of IPPBX. Range: 0~3600.
SIP Expires Max Deviation	Reply to new REGISTER messages with time difference. This item should work with <i>SIP Force Expires</i> . For example, if <i>SIP Force Expires</i> is set 1800 seconds and this item is set 600 seconds, the value of Expires in the 200ok message which is returned by IPPBX upon successful registration will be a random value within the range of 1200s-2400s. By default it is 0.
UserAgent Filter	It is null by default, which means not to verify the UserAgent field in the Register message. If it is not set to null, a SIP extension can register successfully only when the UserAgent field in the Register message conform with the character string of this configuration item.
SIP Force Contact	Set whether to rewrite the contact port, or rewrite both the contact IP and port. This function will not take effect until the registration is refreshed. It is null by default.
Call Settings	Description
Call Timeout	Set the maximum ringing duration in seconds for every call of this extension. The default value is 30s.
Max Call Duration	Set the maximum call duration in seconds for every call of this extension, the call will be terminated once it exceeds the time. This item is only valid for calling external numbers. The default value is 6000s.
Outbound	When this feature is set to True, this extension cannot call out except for emergency
Restriction	numbers. The default setting is False.
Extension Trunk	When this feature is enabled, the remote SIP trunk devices can use this extension and its password to register to this IPPBX and call in without any configuration. You can find this extension in the outbound trunk list and select it as a trunk to call out. The default setting is False.
Call Permission	Set the call permission of an extension, four options available: No Call: Block any calls from the extension. Internal Call: Only internal calls are allowed Local Call: Allow the calls without 0 as the start number Long-distance Call: Allow the calls with only one 0 at the beginning. International Call (default): Allow the calls with two 0 at the beginning.
FXS Settings	Description
Min Flash Detection	Set the minimum amount of time, in milliseconds, that a hook flash must remain depressed in order for the system to consider it as a valid flash event. The default value is 300ms.
Max Flash Detection	Set the maximum amount of time, in milliseconds, that a hook flash must remain depressed in order for the system to consider it as a valid flash event. The default value is 1000ms.
RX Volume	Set the volume in the direction from the analog phone to the FXS port. The value range is -7~7 and the default value is 0.
TX Volume	Set the volume in the direction from the FXS port to the analog phone. The value range is -7~7 and the default value is 0.
Echo Cancellation	The default value is 64ms



Level	
Enable Cut DTMF	Set the length of the in-band DTMF voice to cut. Do not set it too large lest normal
Litable Cut D I III	voice signals be cut. The default value is 25.
Enable DTMF	Enable the DTMC regethrough during the convergation. By default it is unticked
Passthrough	Enable the DTMF passthrough during the conversation. By default it is unticked.
	Press the hook flash on the analog phone during a call to direct this call to 3-way
Flash Event	calling or call forwarding. The corresponding options are 3 Way (default) and Call
	Swap.
DTMF Duration	Set the length of the DTMF tone sent by FXS, calculated by ms. The value range is
DIMF Duration	10-1000 and the default value is 100ms.
DTMF Gap	Set the interval for FXS to send DTMF tones, calculated by ms. The value range is
	100-1000 and the default value is 100ms.
Tone Country	Two options available: USA (default) and China.
Call Waiting	Enable the Call Waiting feature for this extension. By default it is unticked.

3.4.2 Extension Groups

Item	Description
Name	The name of the extension group. It is null by default and must be filled in; otherwise
	the configuration will fail to be saved.
Member	Select one or more extensions to become members of the extension group. It is null
	by default and must be filled in; otherwise the configuration will fail to be saved.

3.4.3 Trunks

3.4.3.1 Basic

Item	Description
Trunk Type	Trunk type, SIP or FXO.
Trunk Name	User-defined, consisting of letters and digits.
Record	Set whether to save the recording data. The default setting is False.
Enabled	Enable or disable the trunk. The default setting is True.
Tueneneut	Three options available: UDP, TCP, TLS. TLS goes valid only if it is enabled in SIP
Transport	Settings. The default setting is udp.
Baristan	Set whether to register the SIP trunk, which is determined by the trunk provider. The
Register	default setting is False.
Profile	Two options available: LAN (default), WAN.
Trunk IP/Domain	IP address or domain name of the SIP trunk plus port number.
Username	Username of the registered SIP trunk
Auth Username	Used for SIP authentication. In most cases, it is the same with the username.
Password	The registration password of the SIP trunk.

Expire Seconds	The default value is 800 seconds.
RegFail Retry	The default value is 30 seconds.
Keep Inbound	In case of unregistration, use the transparent extension as the caller by default; in
CallerID	case of registration, use the registered account as the caller by default.
Enable Proxy	Support of proxy mode for trunks like IMS. By default it is unticked.
Outbound CallerId	CallerID name of this trunk displayed in an outbound call, having a higher priority
Name	than similar settings in <i>Extensions</i> . By default it is null.
Outbound CallerID	CallerID number of this trunk displayed in an outbound call, having a higher priority
Number	than similar settings in <i>Extensions</i> . By default it is null.

3.4.3.2 CODEC

Item	Description
Codec Preferences	Set the RTP codec for SIP trunk outbound calls. G711A, G711U, G729, G722are
	supported at present. If none is selected, all Codecs in SDP will be used by default;
	otherwise, only the selected ones will be assigned.

3.4.3.3 Advance

VolP Settings	Description
Send CID Type	* NONE (default): Put the CID information only in the From field;
	* Remote-Party-ID: Add the Remote Party-ID field with the CID information;
	* P-Asserted-Identify: Add the P-Asserted-Identify field with the CID information.
	The interval to send the OPTIONS message to check if this SIP trunk is available,
OPTIONS Interval	calculated by second. The default setting null means no sending. By default it is
	null, which means not to send.
	When this item is set to True, the header field Privacy:id will be added to the INVITE
Send Privacy ID	message. By default it is set to False.
	Use the value of this item to override the UserName field in the From header field
From User	while sending the INVITE message. By default it is null.
	Use the value of this item to override the Domain field in the From header field while
From Domain	sending the INVITE message. By default it is null.
Factor ODTD	When it is ticked, the RTP stream is encrypted and the certificate is the same as
Enable SRTP	TLS. By default it is unticked.
Other Settings	Description
11:01:14:14:00:11:00	Set the maximum number of concurrent calls for this SIP. The default value is 0
Limit Max Calls	which means no limit.
DNIS	Description
	Dial Number Identification Service is used to identify which trunk a call comes in. It
DNIS	allows users to define the display name of an incoming call instead of the called
	number so that the phone will display the DNIS name when a call comes in on the
	corresponding trunk. It is unticked by default.
DNIS Name	The name of the caller ID displayed for the incoming call through this SIP trunk.
DNIS Number	The number of the callee ID of the incoming call through this SIP trunk according to

	which users determine the value of DNIS Name.
FXO	Description
	Set the volume in the direction from the FXO port to the analog phone. The value
TX Volume	range is -7~7 and the default value is 0.
	Set the volume in the direction from the analog phone to the FXO port. The value
RX Volume	range is -7~7 and the default value is 0.
Hangup Detection	Description
Hangup Detection	
Method	Two methods available: Busy Tone (default) and Polarity.
Busy Count	Specify how many busy tones to wait for before hangup. The default value is 4.
Busy Freq	Set the frequency of busy tones detected. The default value is 450Hz.
Delay Detect Busy	Set the delay time to detect the busy tone, calculated by 25ms. The default value is
Tone	25.
Busy Tone	
Detection Cycle	Set the cycle to detect the busy tone, calculated by 20ms. The default value is 200.
Answer Detection	Description
	Set whether to use the Polarity method to detect if the remote end picks up the call
	and answers.
	None (default): Once an FXO outbound number is successfully sent, the call will be
Answer Detection	regarded as answered by the callee and the IPPBX will send 200ok message in the
Method	direction to the caller.
	Polarity: When an FXO outbound number is successfully sent and the polarity
	reversal signal is detected as 1 on the line, the call will be regarded as answered by
	the callee and the IPPBX will send 200ok message in the direction to the caller.
DID Number	Set the DID number for the incoming call through this FXO port. By default it is null.
Caller ID Settings	Description
Caller ID Detection	Set whether to detect the Caller ID of an incoming call. By default it is ticked.
Polarity Delay	Set the minimum time interval for the answer polarity detection and the hangup
Polarity Delay	polarity detection. The default value is 600ms.
CallerID after	When this item is set to True, the Caller ID will be detected after polarity reversal.
Polarity	The default setting is False.
Other Settings	Description
Frankla Cut DTMF	Set the length of the in-band DTMF voice to cut. Do not set it too large lest normal
Enable Cut DTMF	voice signals be cut. The default value is 25ms which means not to cut.
Enable DTMF	Frankla the DTMF resetting and during the second section. During this is untilled
Passthrough	Enable the DTMF passthrough during the conversation. By default it is unticked.
	Set the length of the DTMF tone sent by FXO, calculated by ms. The value range is
DTMF Duration	10-1000 and the default value is 100ms.
2-11-0	Set the interval for FXO to send DTMF tones, calculated by ms. The value range is
DTMF Gap	100-1000 and the default value is 100ms.
Wait Dialtone	
Timeout	The maximum time to wait for the dial tone, calculated by ms. The default value is 0.
Echo Cancellation	The default value is 64ms.



Level	
Tone Country	Two options available: USA (default) and China.

3.4.3.4 DOD

Item	Description
	This feature allows users to set the caller ID and number of associated extensions
DOD	displayed when dialing out which have the higher priority than the caller ID and
	number configured in basic settings.
DOD Name	The caller ID name of an outbound call.
DOD Number	The caller ID number of an outbound call.

3.4.3.5 Adapt Caller ID

Item	Description
Adapt Caller ID	Adapt the incoming caller ID number by cutting or adding the prefix in order to
	facilitate the use of the callback feature for the SIP extension.
Match Mode	Use regular expression to match.
	^ means starting the match;
	\$ means ending the match;
	\d indicates a random number;
	.indicates a random character;
	\d+ indicates any digit number consisting of more than one byte;
	.* indicates any number consisting of digits or characters.
	For example, ^00\d+ indicates the match of all digit numbers starting with
	00; .*99\$ indicates the match of any character or digit number ending with 99.
Strip	Remove the prefix of an incoming call number.
Prepend	Add the prefix content after removing the prefix.

3.4.4 Inbound Routes

Item	Description
Name	User-defined name of this inbound route. It must be filled in; otherwise the
	configuration will fail to be saved.
Enabled	Set whether to enable this route. The default setting is True.
DID Pattern	Use regular expression to match.
	^ means starting the match;
	\$ means ending the match;
	\d indicates a random number;
	.indicates a random character;
	\d+ indicates any digit number consisting of more than one byte;
	.* indicates any number consisting of digits or characters.
	For example, ^00\d+ indicates the match of all digit numbers starting with



1
00; .*99\$ indicates the match of any character or digit number ending with 99. By
default it is null.
Same as the item <i>DID Pattern</i> . By default it is null.
Multiple options available, such as Extensions, IVR Menus, Ring Groups,
Conference Rooms, Call Center, etc. By default it is null and must be filled in;
otherwise the configuration will fail to be saved.
Set whether to enable the fax detection. The default setting is False.
*False: Neither detect Fax tone nor send Fax.
*True: Proceed to send Fax if Fax tone detected.
In case the fax detection is enabled and the property of the SDP field in the INVITE
message is detected as fax, it is necessary to set a route to the corresponding fax
destination. By default it is null.
The feature is disabled by default. Once enabled, it is required to set a destination
corresponding to this time condition.
Send the INVITE message with the Alert-Info header field to the called extension to
let it select different ring tone files based on the Alert-Info header field. By default it
is null.
Used to adjust the priority of multiple inbound routes. The default value is 100.
Select the trunks that can use this route. It must be filled in; otherwise the
configuration will fail to be saved.

3.4.5 Outbound Routes

Item	Description
Name	User-defined name of this outbound route. It must be filled in; otherwise the
	configuration will fail to be saved.
Enabled	Set whether to enable this route. The default setting is True.
	Use regular expression to match.
	\d indicates a random number;
	.indicates a random character;
Dial Patterns	\d+ indicates any digit number consisting of more than one byte;
Diai Patterns	.* indicates any number consisting of digits or characters.
	For example, 00\d+ indicates the match of all digit numbers starting with 00; .*99
	indicates the match of any character or digit number ending with 99.
	The default setting is \d*.
Strip	The number of digits to be removed from the prefix. By default it is null.
Prepend	The digits to be added to the prefix. The default setting is null.
Delay	The delay time before dial, calculated by ms. The default setting is null.
Member Extensions	Add member extensions for controlling the outbound call authority. Only those
	extensions selected have the authority to use this route. It must be filled in;
	otherwise the configuration will fail to be saved.
Member Trunks	Select the trunks that can use this route. It must be filled in; otherwise the

	configuration will fail to be saved.
Next Route	If enabled, when the route is successfully matched and the call is not established
	normally, the next route will continue to be matched. By default it is ticked.
	Set if you need a password for using this outbound route. The default setting is
	none.
Password	*None: The call goes out directly
	*Pin List: The gateway will require Password for outgoing calls, and will check the
	entered PIN with the selected PIN list in Call Features - Pin Numbers. The call will
	be proceeded while the entered PIN matches any in the PIN list.
	*Single Pin: Manually set password .The gateway will require Password for
	outgoing calls, and the call will be proceeded only if the entered PIN is correct.
Order	Used to adjust the priority of multiple outbound routes. Smaller Number means
	higher Priority. The default value is 1000.
Time Condition	Set which time period to use this route. Untick any option by default, which means
	no time limits on outbound calls.

3.4.6 Outbound Restrictions

Item	Description
Nome	Name of this user-defined outbound restriction. It must be filled in; otherwise the
Name	configuration will fail to be saved.
Time Limit	Set a time limit for calls. The default value is 5 minutes.
Normalian of Calla	Set how many calls are allowed in the limited time. For example, if <i>Time Limit</i> is set
Number of Calls	to 5 minutes and this item is set to 5, it means the designated extension can only
Limit	make 5 calls in 5 minutes. When this extension makes the 6 th call, it will be locked.
Auto Comoni	The setting of True means the designated extension can make more calls after the
Auto Cancel	time limit even if it is locked; the setting of False means this extension, once it is
Restriction	locked, cannot make outbound calls any more until it is unlocked manually.
Enabled	Set whether to enable this outbound restriction rule. The default setting is True.
	Select the extensions that use this restriction rule. It must be filled in; otherwise the
Member Extensions	configuration will fail to be saved.

3.4.7 AutoCLIP

Item	Description
AutoCLIP	AutoCLIP can redirect call to original extension. The IPPBX automatically stores
	information about outgoing calls to the AutoCLIP routing table. When the same
	person calls back, the call will be routed directly to the original extension that made
	the former mentioned outgoing call.
View AutoCLIP List	A list of extension outbound calls.
Delete Used	If enabled, when an AutoCLIP record is matched, it will be automatically deleted



Records	afterwards. By default it is unticked.
	Set how long each record will be kept in the AutoCLIP list. The default value is 8
Record Keep Time	hours.
Only Keep Missed	If enabled, the system will only keep records of outbound calls that are not
Call Records	answered by the called party in the AutoCLIP list. By default it is ticked.
Match Outgoing	If enabled, only the calls that come in through the same trunk as the last call go out
Trunk	from will match against the AutoCLIP list. By default it is ticked.
Booked BSTN Trunk	If enabled, calls that go out through PSTN will be recorded to the AutoCLIP list. By
Record PSTN Trunk	default it is ticked.
	Define how many digits from the last digit of the incoming call number will be used
Digits Match	to match the AutoCLIP record. If the number has fewer digits than the value defined
	here, it will be matched in full length. The default value is 7.
Enabled	Set whether to enable the AutoClip routing. The default setting is False.
Member Trunks	Select the trunk on which outgoing calls will be recorded. It is required; otherwise
	the configuration will fail to be saved.

3.4.8 CC Routes

Item	Description
CC Boutes	When the extension is busy, the call will be recorded. After the callback interval, the
CC Routes	call will be dialed back.
V5 00 List	View the list of calls which are recorded upon the extension is busy and need to be
View CC List	dialed back.
CC Interval Time	The callback interval for calls in the CC record. The default value is 1 minute.
Record Keep Time	The time to keep a CC record. The default value is 8 hours.
Enabled	Set whether to enable the CC routes. By default it is False.
Member Extensions	Add the extensions which have the authority to control the CC routes.

3.4.9 Time Condition

Item	Description
Time Condition	It can be set for such features as outbound routes, inbound routes, call forwarding,
Time Condition	and follow me.
	User-defined name of a time condition. It must be filled in; otherwise the
Name	configuration will fail to be saved.
Туре	Three options available: WorkTime (default), Holiday, Custom.
Advance	If ticked, more settings will appear for you. By default it is unticked.
	Multiple times allowed to set, including day of week, hour and minute by default. If
WorkTime	you need to set year, month, day of month, tick the above item Advance.
Holiday	Multiple times allowed to set, including year, month and day of month by default. If
	you need to set day of week, tick the above item Advance.



Custom	Multiple times allowed to set, including month, day of month, week of month, day of
	week, hour, minute, as well as exclude holiday.

3.4.10 Call Features

3.4.10.1 IVR

Basic	Description
Name	User-defined IVR name. It must be filled in; otherwise the configuration will fail to be
Name	saved.
	The extension number that can be routed to this IVR, with the default value range of
IVR Number	6500~6599 which can be modified in 'PBX->Preference->Extension Preferences'. It
IVR Number	is null by default and must be filled in; otherwise the configuration will fail to be
	saved.
Greet Long	It is played as the first prompt for entering the IVR menu. The default setting is
Greet Long	Default.
Greet Short	It is played when the user doesn't enter any key or enters a wrong key. By default it
Greet Short	is null.
Response Timeout	The time waiting for a digit input after prompt. The default value is 5000ms.
Inter-Digit Timeout	The maximum time between your entering of two adjacent DTMF digits. The default
Inter-Digit Timeout	value is 3000ms.
Max Timeouts	Maximum number of timeouts before exit. The default value is 3.
Max Failures	Maximum number of retries before exit. The default value is 3.
Digit Length	Maximum number of digits allowed for the caller ID.
Enabled	Set whether to use the IVR. By default it is True.
Direct Extension	Set whether the user can dial directly to extensions after hearing the IVR prompt.
FXO Flash Transfer	Set whether to allow the current FXO to flash transfer. By default it is False.
Direct Outbound	Set whether the user can dial directly out after hearing the IVR prompt. By default it
Direct Gatboana	is unticked.
Advanced	Description
Invalid Sound	The prompt played in case of invalid keypress. The default setting is Default.
Exit Sound	The prompt played upon exiting the IVR menu. The default setting is Default.
Exit Action	The destination selected to enter after exiting the IVR menu. By default it is null.
Caller ID Name	The prefix of the caller ID name sent upon the call passing from IVR to an internal
Prefix	extension. By default it is null.
Ring Back	The ring back tone the caller will hear upon the call passing from IVR to an internal
	extension. The default setting is Default.
Key Press Event	Description
Keypress Event	Set the destinations respectively according to 0~9, *, # and invalid keys.

3.4.10.2 Conference Room

Item	Description
------	-------------



User-defined name of a conference room. It must be filled in; otherwise the configuration will fail to be saved. The number dialed to reach this conference room, with the default value range of 6400~6499 which can be modified in 'PBX->Preference->Extension Preferences'. It is null by default and must be filled in; otherwise the configuration will fail to be saved. The greeting played upon joining this conference room. The default setting is Default. Schedule		T
Conference Center Number The number dialed to reach this conference room, with the default value range of 6400–6499 which can be modified in 'PBX->Preference->Extension Preferences'. It is null by default and must be filled in; otherwise the configuration will fail to be saved. The greeting played upon joining this conference room. The default setting is Default. Set the start and end time for this conference room. Set whether a password is needed for entering this conference room. The default setting is True. Set whether to enable the recording. By default it is False. Max Members The maximum number of members allowed in this conference room. If set to True, the participants could not hear each other until the moderator joins the conference. The default setting is True. If set to True, you will hear a prompt 'Please say your name' upon you enter a conference room, and other members will hear a prompt 'xxx enters the conference' upon you successfully join in the conference. The default setting is True. If set to True, other members will hear prompts upon a member enters or exits this conference room; if set to False, there will be no prompt for a member's entering or exiting. The default setting is False. If set to True, the participants expect for the moderator are not allowed to speak in this conference room. The default setting is False. If set to True, all participants expect for the moderator are not allowed to speak in this conference room. The default setting is False. If set to True, all participants could press *0 to invite other users to enter this conference room, press *1 to launch an invitation with confirmation request and press *2 to kick the member they invited out of this room. The administrator could press *3 to kick out all participants in the conference. The default setting is True. Sets whether to use the conference room. The default setting is True. Specify the moderator extension for this conference. It must be filled in; otherwise	Room Name	User-defined name of a conference room. It must be filled in; otherwise the
Conference Center Number 6400~6499 which can be modified in 'PBX->Preference->Extension Preferences'. It is null by default and must be filled in; otherwise the configuration will fail to be saved. The greeting played upon joining this conference room. The default setting is Default. Schedule Set the start and end time for this conference room. Set whether a password is needed for entering this conference room. The default setting is True. Record Set whether to enable the recording. By default it is False. Max Members The maximum number of members allowed in this conference room. If set to True, the participants could not hear each other until the moderator joins the conference. The default setting is True. If set to True, you will hear a prompt 'Please say your name' upon you enter a conference room, and other members will hear a prompt 'xxx enters the conference' upon you successfully join in the conference. The default setting is True. If set to True, other members will hear prompts upon a member enters or exits this conference room; if set to False, there will be no prompt for a member's entering or exiting. The default setting is False. If set to True, the participants expect for the moderator are not allowed to speak in this conference room. The default setting is False. If set to True, all participants could press *0 to invite other users to enter this conference room, press *1 to launch an invitation with confirmation request and press *2 to kick the member they invited out of this room. The administrator could press *3 to kick out all participants in the conference. It must be filled in; otherwise Moderator Member		configuration will fail to be saved.
Is null by default and must be filled in; otherwise the configuration will fail to be saved. The greeting played upon joining this conference room. The default setting is Default.		The number dialed to reach this conference room, with the default value range of
The greeting played upon joining this conference room. The default setting is Default. Schedule Set the start and end time for this conference room. Set whether a password is needed for entering this conference room. The default setting is True. Record Set whether to enable the recording. By default it is False. Max Members The maximum number of members allowed in this conference room. If set to True, the participants could not hear each other until the moderator joins the conference. The default setting is True. If set to True, you will hear a prompt 'Please say your name' upon you enter a conference room, and other members will hear a prompt 'xxx enters the conference' upon you successfully join in the conference. The default setting is True. If set to True, other members will hear prompts upon a member enters or exits this conference room; if set to False, there will be no prompt for a member's entering or exiting. The default setting is False. If set to True, the participants expect for the moderator are not allowed to speak in this conference room. The default setting is False. If set to True, all participants could press "0 to invite other users to enter this conference room, press "1 to launch an invitation with confirmation request and press "2 to kick the member they invited out of this room. The administrator could press "3 to kick out all participants in the conference. The default setting is True. Enabled Sets whether to use the conference room. The default setting is True. Specify the moderator extension for this conference. It must be filled in; otherwise	Conference Center	6400~6499 which can be modified in 'PBX->Preference->Extension Preferences'. It
The greeting played upon joining this conference room. The default setting is Default. Schedule Set the start and end time for this conference room. Set whether a password is needed for entering this conference room. The default setting is True. Record Set whether to enable the recording. By default it is False. Max Members The maximum number of members allowed in this conference room. If set to True, the participants could not hear each other until the moderator joins the conference. The default setting is True. If set to True, you will hear a prompt 'Please say your name' upon you enter a conference room, and other members will hear a prompt 'xxx enters the conference' upon you successfully join in the conference. The default setting is True. If set to True, other members will hear prompts upon a member enters or exits this conference room; if set to False, there will be no prompt for a member's entering or exiting. The default setting is False. If set to True, the participants expect for the moderator are not allowed to speak in this conference room. The default setting is False. If set to True, all participants could press *0 to invite other users to enter this conference room, press *1 to launch an invitation with confirmation request and press *2 to kick the member they invited out of this room. The default setting is True. Enabled Sets whether to use the conference room. The default setting is True. Specify the moderator extension for this conference. It must be filled in; otherwise	Number	is null by default and must be filled in; otherwise the configuration will fail to be
Default.		saved.
Schedule Set the start and end time for this conference room. Set whether a password is needed for entering this conference room. The default setting is True. Record Set whether to enable the recording. By default it is False. Max Members The maximum number of members allowed in this conference room. If set to True, the participants could not hear each other until the moderator joins the conference. The default setting is True. If set to True, you will hear a prompt 'Please say your name' upon you enter a conference room, and other members will hear a prompt 'xxx enters the conference' upon you successfully join in the conference. The default setting is True. If set to True, other members will hear prompts upon a member enters or exits this conference room; if set to False, there will be no prompt for a member's entering or exiting. The default setting is False. If set to True, the participants expect for the moderator are not allowed to speak in this conference room. The default setting is False. If set to True, all participants could press *0 to invite other users to enter this conference room, press *1 to launch an invitation with confirmation request and press *2 to kick the member they invited out of this room. The administrator could press *3 to kick out all participants in the conference. The default setting is True. Enabled Moderator Member Sets whether to use the conference room. The default setting is True. Specify the moderator extension for this conference. It must be filled in; otherwise	O	The greeting played upon joining this conference room. The default setting is
Set whether a password is needed for entering this conference room. The default setting is True. Record Set whether to enable the recording. By default it is False. The maximum number of members allowed in this conference room. If set to True, the participants could not hear each other until the moderator joins the conference. The default setting is True. If set to True, you will hear a prompt 'Please say your name' upon you enter a conference room, and other members will hear a prompt 'xxx enters the conference' upon you successfully join in the conference. The default setting is True. If set to True, other members will hear prompts upon a member enters or exits this conference room; if set to False, there will be no prompt for a member's entering or exiting. The default setting is False. If set to True, the participants expect for the moderator are not allowed to speak in this conference room. The default setting is False. If set to True, all participants could press *0 to invite other users to enter this conference room, press *1 to launch an invitation with confirmation request and press *2 to kick the member they invited out of this room. The administrator could press *3 to kick out all participants in the conference. The default setting is True. Enabled Sets whether to use the conference room. The default setting is True. Specify the moderator extension for this conference. It must be filled in; otherwise	Greeting	Default.
Set whether to enable the recording. By default it is False. Max Members The maximum number of members allowed in this conference room.	Schedule	Set the start and end time for this conference room.
Set whether to enable the recording. By default it is False. Max Members The maximum number of members allowed in this conference room. If set to True, the participants could not hear each other until the moderator joins the conference. The default setting is True. If set to True, you will hear a prompt 'Please say your name' upon you enter a conference room, and other members will hear a prompt 'xxx enters the conference' upon you successfully join in the conference. The default setting is True. If set to True, other members will hear prompts upon a member enters or exits this conference room; if set to False, there will be no prompt for a member's entering or exiting. The default setting is False. If set to True, the participants expect for the moderator are not allowed to speak in this conference room. The default setting is False. If set to True, all participants could press *0 to invite other users to enter this conference room, press *1 to launch an invitation with confirmation request and press *2 to kick the member they invited out of this room. The administrator could press *3 to kick out all participants in the conference. The default setting is True. Enabled Sets whether to use the conference room. The default setting is True. Specify the moderator extension for this conference. It must be filled in; otherwise	No Din	Set whether a password is needed for entering this conference room. The default
The maximum number of members allowed in this conference room. Wait for Moderator If set to True, the participants could not hear each other until the moderator joins the conference. The default setting is True. If set to True, you will hear a prompt 'Please say your name' upon you enter a conference room, and other members will hear a prompt 'xxx enters the conference' upon you successfully join in the conference. The default setting is True. If set to True, other members will hear prompts upon a member enters or exits this conference room; if set to False, there will be no prompt for a member's entering or exiting. The default setting is False. If set to True, the participants expect for the moderator are not allowed to speak in this conference room. The default setting is False. If set to True, all participants could press *0 to invite other users to enter this conference room, press *1 to launch an invitation with confirmation request and press *2 to kick the member they invited out of this room. The administrator could press *3 to kick out all participants in the conference. The default setting is True. Sets whether to use the conference room. The default setting is True. Specify the moderator extension for this conference. It must be filled in; otherwise	NO PIN	setting is True.
If set to True, the participants could not hear each other until the moderator joins the conference. The default setting is True. If set to True, you will hear a prompt 'Please say your name' upon you enter a conference room, and other members will hear a prompt 'xxx enters the conference' upon you successfully join in the conference. The default setting is True. If set to True, other members will hear prompts upon a member enters or exits this conference room; if set to False, there will be no prompt for a member's entering or exiting. The default setting is False. If set to True, the participants expect for the moderator are not allowed to speak in this conference room. The default setting is False. If set to True, all participants could press *0 to invite other users to enter this conference room, press *1 to launch an invitation with confirmation request and press *2 to kick the member they invited out of this room. The administrator could press *3 to kick out all participants in the conference. The default setting is True. Enabled	Record	Set whether to enable the recording. By default it is False.
Conference. The default setting is True. If set to True, you will hear a prompt 'Please say your name' upon you enter a conference room, and other members will hear a prompt 'xxx enters the conference' upon you successfully join in the conference. The default setting is True. If set to True, other members will hear prompts upon a member enters or exits this conference room; if set to False, there will be no prompt for a member's entering or exiting. The default setting is False. If set to True, the participants expect for the moderator are not allowed to speak in this conference room. The default setting is False. If set to True, all participants could press *0 to invite other users to enter this conference room, press *1 to launch an invitation with confirmation request and press *2 to kick the member they invited out of this room. The administrator could press *3 to kick out all participants in the conference. The default setting is True. Enabled Sets whether to use the conference room. The default setting is True. Specify the moderator extension for this conference. It must be filled in; otherwise	Max Members	The maximum number of members allowed in this conference room.
Conference. The default setting is True. If set to True, you will hear a prompt 'Please say your name' upon you enter a conference room, and other members will hear a prompt 'xxx enters the conference' upon you successfully join in the conference. The default setting is True. If set to True, other members will hear prompts upon a member enters or exits this conference room; if set to False, there will be no prompt for a member's entering or exiting. The default setting is False. If set to True, the participants expect for the moderator are not allowed to speak in this conference room. The default setting is False. If set to True, all participants could press *0 to invite other users to enter this conference room, press *1 to launch an invitation with confirmation request and press *2 to kick the member they invited out of this room. The administrator could press *3 to kick out all participants in the conference. The default setting is True. Enabled Specify the moderator extension for this conference. It must be filled in; otherwise	14/- 14 5 141	If set to True, the participants could not hear each other until the moderator joins the
conference room, and other members will hear a prompt 'xxx enters the conference' upon you successfully join in the conference. The default setting is True. If set to True, other members will hear prompts upon a member enters or exits this conference room; if set to False, there will be no prompt for a member's entering or exiting. The default setting is False. If set to True, the participants expect for the moderator are not allowed to speak in this conference room. The default setting is False. If set to True, all participants could press *0 to invite other users to enter this conference room, press *1 to launch an invitation with confirmation request and press *2 to kick the member they invited out of this room. The administrator could press *3 to kick out all participants in the conference. The default setting is True. Enabled Sets whether to use the conference room. The default setting is True. Specify the moderator extension for this conference. It must be filled in; otherwise	wait for Moderator	conference. The default setting is True.
upon you successfully join in the conference. The default setting is True. If set to True, other members will hear prompts upon a member enters or exits this conference room; if set to False, there will be no prompt for a member's entering or exiting. The default setting is False. If set to True, the participants expect for the moderator are not allowed to speak in this conference room. The default setting is False. If set to True, all participants could press *0 to invite other users to enter this conference room, press *1 to launch an invitation with confirmation request and press *2 to kick the member they invited out of this room. The administrator could press *3 to kick out all participants in the conference. The default setting is True. Enabled Sets whether to use the conference room. The default setting is True. Specify the moderator extension for this conference. It must be filled in; otherwise		If set to True, you will hear a prompt 'Please say your name' upon you enter a
If set to True, other members will hear prompts upon a member enters or exits this conference room; if set to False, there will be no prompt for a member's entering or exiting. The default setting is False. Mute Participant If set to True, the participants expect for the moderator are not allowed to speak in this conference room. The default setting is False. If set to True, all participants could press *0 to invite other users to enter this conference room, press *1 to launch an invitation with confirmation request and press *2 to kick the member they invited out of this room. The administrator could press *3 to kick out all participants in the conference. The default setting is True. Enabled Sets whether to use the conference room. The default setting is True.	Say your name	conference room, and other members will hear a prompt 'xxx enters the conference'
conference room; if set to False, there will be no prompt for a member's entering or exiting. The default setting is False. If set to True, the participants expect for the moderator are not allowed to speak in this conference room. The default setting is False. If set to True, all participants could press *0 to invite other users to enter this conference room, press *1 to launch an invitation with confirmation request and press *2 to kick the member they invited out of this room. The administrator could press *3 to kick out all participants in the conference. The default setting is True. Enabled Sets whether to use the conference room. The default setting is True. Specify the moderator extension for this conference. It must be filled in; otherwise		upon you successfully join in the conference. The default setting is True.
exiting. The default setting is False. Mute Participant If set to True, the participants expect for the moderator are not allowed to speak in this conference room. The default setting is False. If set to True, all participants could press *0 to invite other users to enter this conference room, press *1 to launch an invitation with confirmation request and press *2 to kick the member they invited out of this room. The administrator could press *3 to kick out all participants in the conference. The default setting is True. Enabled Sets whether to use the conference room. The default setting is True. Specify the moderator extension for this conference. It must be filled in; otherwise		If set to True, other members will hear prompts upon a member enters or exits this
Mute Participant If set to True, the participants expect for the moderator are not allowed to speak in this conference room. The default setting is False. If set to True, all participants could press *0 to invite other users to enter this conference room, press *1 to launch an invitation with confirmation request and press *2 to kick the member they invited out of this room. The administrator could press *3 to kick out all participants in the conference. The default setting is True. Enabled Sets whether to use the conference room. The default setting is True. Specify the moderator extension for this conference. It must be filled in; otherwise	Announce	conference room; if set to False, there will be no prompt for a member's entering or
this conference room. The default setting is False. If set to True, all participants could press *0 to invite other users to enter this conference room, press *1 to launch an invitation with confirmation request and press *2 to kick the member they invited out of this room. The administrator could press *3 to kick out all participants in the conference. The default setting is True. Enabled Sets whether to use the conference room. The default setting is True. Specify the moderator extension for this conference. It must be filled in; otherwise		exiting. The default setting is False.
this conference room. The default setting is False. If set to True, all participants could press *0 to invite other users to enter this conference room, press *1 to launch an invitation with confirmation request and press *2 to kick the member they invited out of this room. The administrator could press *3 to kick out all participants in the conference. The default setting is True. Enabled Sets whether to use the conference room. The default setting is True. Specify the moderator extension for this conference. It must be filled in; otherwise	Muto Porticipant	If set to True, the participants expect for the moderator are not allowed to speak in
Allow Participant to Invite conference room, press *1 to launch an invitation with confirmation request and press *2 to kick the member they invited out of this room. The administrator could press *3 to kick out all participants in the conference. The default setting is True. Enabled Sets whether to use the conference room. The default setting is True. Specify the moderator extension for this conference. It must be filled in; otherwise	Mute Participant	this conference room. The default setting is False.
Invite press *2 to kick the member they invited out of this room. The administrator could press *3 to kick out all participants in the conference. The default setting is True. Enabled Sets whether to use the conference room. The default setting is True. Specify the moderator extension for this conference. It must be filled in; otherwise		If set to True, all participants could press *0 to invite other users to enter this
press *3 to kick out all participants in the conference. The default setting is True. Enabled Sets whether to use the conference room. The default setting is True. Specify the moderator extension for this conference. It must be filled in; otherwise	Allow Participant to	conference room, press *1 to launch an invitation with confirmation request and
Enabled Sets whether to use the conference room. The default setting is True. Specify the moderator extension for this conference. It must be filled in; otherwise	Invite	press *2 to kick the member they invited out of this room. The administrator could
Specify the moderator extension for this conference. It must be filled in; otherwise		press *3 to kick out all participants in the conference. The default setting is True.
Moderator Member	Enabled	Sets whether to use the conference room. The default setting is True.
the configuration will fail to be saved.	Moderator March	Specify the moderator extension for this conference. It must be filled in; otherwise
	woderator Wember	the configuration will fail to be saved.

3.4.10.3 Call Center Queues

3.4.10.3.1 Basic

Item	Description
Overe Name	User-defined name of a call center queue. It must be filled in; otherwise the
Queue Name	configuration will fail to be saved.
	The number dialed to reach this call center queue, with the default value range of
	6700~6799 which can be modified in 'PBX->Preference->Extension Preferences'. It
Queue Number	is null by default and must be filled in; otherwise the configuration will fail to be
	saved.
No Dia	Set whether a password is needed for dynamic agents to enter this queue. The
No Pin	default setting is False.

Agent Password	Set the password for dynamic agents to enter this call center queue. It is null by
	default and must be filled in; otherwise the configuration will fail to be saved.
	Ring All: All available agents ring.
	Longest Idle Agent (default): The agent keeping idle for the longest time rings first.
	Round Robin: All available agents ring in rotation.
Dina Ctuatam.	Random: All available agents ring randomly.
Ring Strategy	Agent with Least Talk Time: The agent whose total call time is shortest rings first.
	Agent with Fewest Calls: The agent with fewest calls rings first.
	Top Down: The agents ring from top to down in the order already configured.
	Sequentially by Agent Order: The agents ring in the order of their numbers.
Agent Call Timeout	The maximum time for each agent to ring. The default value is 15 seconds.
	The allowed number of consecutive unanswered calls. 0 means no limit and the
Max No Answer	default value is 3.
	The maximum time a caller can wait in a queue before being pulled out, calculated
Max Wait Time	by second. 0 means no time limit.
	Select the destination to enter when the call in the queue doesn't be answered in
Timeout Action	the maximum waiting time. By default it is null.
Record	Set whether to enable call recording for the queue. By default it is False.
Agent Answer	
Announce	Announcement played upon the agent answers the call. The default setting is null.
	The interval time between the failed and new calls of an agent. The default value is
Agent Retry Time	30 seconds.
	The interval time between the answer of an incoming call and the allocation of a
Wrap Up Time	new one.
Max Queue Length	Set how many callers are allowed to line in the queue.
Caller ID Name	The prefix of a caller ID name sent when the queue allocates a call to the agent. By
Prefix	default it is null.
Alert Info	Set the content of the Alert-Info field. By default it is null.
Agents	Set one or several extensions to be the fixed station of the current queue.
-	· · · · · · · · · · · · · · · · · · ·

3.4.10.3.2 Caller Experience Settings

Item	Description
Music on Hold	Select the music on hold to play when the caller enters this queue. The default
Music on Hold	setting is Default.
Join When No Agent	If enabled, callers can join a queue that has no agents. By default it is unticked.
Max Wait Time with	The maximum waiting time for a caller in the queue that has no agents. The default
No Agent	value is 90s.
Jain Annaynas	Announcement played to callers upon joining the queue. The default setting is
Join Announce	Default.
Queue Busy	Set whether to assign incoming calls to other stations if the current station is already
Resume Offer	in call. The default setting is True.
Caller Position	Description



Announcements	
Announce Position	Announce the current position of the caller in the queue. By default it is ticked.
Announce Hold Time	Announce how long the caller shall wait in the queue. By default it is ticked.
Call Duration	The average call length estimated by users based on actual situations, used to calculate the waiting time for the caller. The default value is 60s.
Announce	Set how often to announce the queue position and the hold time. The default value
Frequency	is 30s.
Periodic Announcements	Description
Announce Sound	The system prompt that will be played periodically to callers in the queue, such as 'All agents are busy. Please wait a minute. To leave a message, press 1; to end the call, just hang up'. The default setting is Default.
Announce Frequency	How often the system prompt is played. The default value is 0s.
Busy Callback	Description
Enable Busy Callback	When this feature is enabled, the caller can choose to hang up the call while hearing a corresponding voice prompt and this call still waits in line. Then once it is the caller's turn to transfer the call to an agent, IPPBX will start a call to this agent and wait for answers before dialing back to the caller to establish a connection. The default setting is False.
Agent Busy Announce	Select a voice file as the prompt for agent busy. The default setting is Default.
Agent Busy Callback Key	Press this key to enter the flow of dialing back upon agent busy. The default value is 2.
Events	Description
Option Digits	The keys that might be pressed after the caller hears the system prompt.
DTMF Action	The destination the call will be transferred to after the caller's keypress.

3.4.10.4 Intercept Groups

Item	Description
Name	User-defined name of an intercept group. Users can set intercept groups by service
	requirements, facilitating the members in a group to answer calls for each other. It
	must be filled in; otherwise the configuration will fail to be saved.
Member	Select members for this group. It is null by default and must be filled in; otherwise
	the configuration will fail to be saved.

3.4.10.5 Ring Groups

Item	Description
Name	User-defined name of a ring group. It must be filled in; otherwise the configuration
	will fail to be saved.
Ring Group Number	The number dialed to reach this ring group, with the default value range of

6200~6299 which can be modified in 'PBX->Preference->Extension Preferences'. It
is null by default and must be filled in; otherwise the configuration will fail to be
saved.
Three options available: Simultaneous, Sequence, Random.
*Simultaneous (default): All extensions ring at the same time.
*Sequence: Ring one by one. Timeout by Second.
*Random: Random select extensions, none-repetitive.
Select the destination to enter when agents in this ring group are all not answered.
By default it is null.
The timeout time to ring next extension, and also the timeout time to enter Timeout
Destination if all extensions are unavailable. The default value is 30s.
Set the status of the ring group. The default setting is True.
Set the content of the Alert-Info field. By default it is null.
The ringback tone sent to the caller. The default setting is us-ring.
The prefix of a caller ID name sent to the extension. By default it is null.
If set to Yes, the extension user will hear the following prompts upon picking up the
call: Press 1 to answer; press 2 to reject. The default setting is No.
Select members for this group. It is null by default and must be filled in; otherwise
the configuration will fail to be saved.

3.4.10.6 BlackList

Item	Description
Name	User-defined name of a blacklist. It must be filled in; otherwise the configuration will
	fail to be saved.
Match Mode	Set the mode to match the caller number coming in through the trunk with the
	blacklist, two options available: Exact Match (default) and Regex Match.
BlackListNumber	An exact number in the blacklist.
Regular Expression	Fill in following the rule of Regular Expression.
Enabled	Set whether to enable the black list feature. By default it is True.

3.4.10.7 PIN Numbers

Item	Description
Name	User-defined name of a PIN number. It must be filled in; otherwise the configuration
	will fail to be saved.
PIN List	Multiple PIN numbers are allowed and should be separated by ','. This feature is
	used for such applications as conference, outbound routes which require entering
	the PIN number to verify authorities. It is null by default and must be filled in;
	otherwise the configuration will fail to be saved.
Enabled	Set whether to enable or disable the PIN list. It is null by default and must be filled
	in; otherwise the configuration will fail to be saved.



3.4.10.8 Speed Dial

Item	Description
Name	User-defined name of a speed dial, which must be unique. It is null by default and
	must be filled in; otherwise the configuration will fail to be saved.
Speed Dial Number	Number of a speed dial, unique. It is null by default and must be filled in; otherwise
	the configuration will fail to be saved.
Destination	Destination number that the speed dial number corresponds to. It is null by default
	and must be filled in; otherwise the configuration will fail to be saved.

3.4.10.9 Call Broadcasts

Item	Description
Name	User-defined name of a call broadcast, which shall be unique. It is null by default
	and must be filled in; otherwise the configuration will fail to be saved.
Number	Number of a call broadcast. The default value range is 6300~6399. It is null by
	default and must be filled in; otherwise the configuration will fail to be saved.
Туре	Two options available: Unilateralism (default) and Bidirectional.
CallerID Name Prefix	The prefix of a caller ID name of the call started by the call broadcast. It is null by
	default.
Member	Select members for this group. It is null by default and must be filled in; otherwise
	the configuration will fail to be saved.

3.4.10.10 DISA

Item	Description
Name	User-defined name of a DISA, which must be unique. It is null by default and must
	be filled in; otherwise the configuration will fail to be saved.
Response Timeout	The maximum time waiting for the caller to press digits after prompt.
Digit Timeout	The maximum time permitted between two digits in dialing an extension number.
Second Dial	Set whether to enable the two-stage dial. The default setting is True.
PIN Type	Three options available: None, Single Pin and Pin List. If set to Single Pin or Pin
	List, the caller in DISA will hear the prompt for entering a password before inputting
	the callee number to dial.
Outbound Routes	Select an outbound route for DISA call out. It is null by default and must be filled in;
	otherwise the configuration will fail to be saved.

3.4.10.11 Call Back

Item	Description
Name	User-defined name of a callback, which must be unique. It is null by default and
	must be filled in; otherwise the configuration will fail to be saved.
Delay	The delay time to call back after rejecting an incoming call.
Strip	Set how many digits will be stripped from the call number before the callback is
	placed. It is null by default.

Prepend	Set the digits to prefix the callback number before the callback is placed. It is null by
	default.
Destination	The destination which the callback will direct the call to. It is null by default and must
	be filled in; otherwise the configuration will fail to be saved.
Through	*Auto (default)
	*From Come in
	*Select SIP Trunk

3.4.10.12 Wakeup Services

Item	Description
Name	User-defined name of the wakeup service, unique. It is null by default and must be
	filled in; otherwise the configuration will fail to be saved.
Prompt	The alarm prompt. The default setting is Default.
Custom Date	User-defined alarm date, including day of week, etc. By default it is unticked.
	Set the year, month and day information. It is null by default and must be filled in;
Date	otherwise the configuration will fail to be saved.
Time	Set the time which is by default 00:00.
Snooze Time	Set the time interval for retry. The value range is ≥60 and the default value is 600,
	calculated by second.
Enabled	Set whether to enable the wakeup service. The default setting is True.
Wakeup Member	The extension members that need the wakeup service. It is null by default and must
	be filled in; otherwise the configuration will fail to be saved.

3.4.10.13 Emergencies

Item	Description
Emergency Number	The emergency number users fill in by actual requirements, such as 110, 911. It is
	null by default and must be filled in; otherwise the configuration will fail to be saved.
Trunk	Choose trunks for dialing the emergency number. All extensions can make
	emergency calls through these trunks regardless of the Time Condition setting.
	When all the trunks are busy, the system will terminate an ongoing call to make sure
	the emergency call can be put through. The default setting is None.
Announce	When an emergency number is dialed, the system will make a notification call to the
	selected extension with a prompt. Multiple extensions are allowed. The default
	setting is None.

3.4.11 Feature Code

Digits Timeout	Description
Feature Code Digits	The maximum time waiting for the next feature code digit. The default value is
Timeout	5000ms.
Recording	Description

	7
One Touch Record	The feature code that is used to start or stop call recording. The default code is *2.
Voicemail	Description
Check Voicemail	The feature code that is used to check the voicemail. Press it and enter you
	password following the prompt. The default code is *97.
Voicemail Main	The feature code that is used to access the global menu for voicemail. The defaul
Menu	code is *98.
Voicemail for	The feature code that is used to leave a voicemail to specified extensions or forward
Extension	an incoming call to an extension's voicemail directly. The default code is *99.
Transfer	Description
	Extension A presses this feature code in a call and dials Extension B after hearing
Blind Transfer	the dial tone to transfer the call successfully.
	Extension A presses this feature code in a call, dials Extension B after hearing the
Attended Transfer	dial tone, and hangs up the call after communication to transfer the ca
Attended Transfer	successfully.
Attended Transfer	The timeout to transfer a call. The call will be transferred back after the set time
Timeout	The default value is 15 seconds.
Intercept	Description
Group Intercept	By pressing this feature code, an extension can answer the incoming call to anothe
	extension in the same intercept group. The default code is *8.
Extension Intercept	By dialing this feature code plus an extension number, users can answer incoming
•	calls to this extension. The default code is **.
Intercom	Description
Intercom	By dialing this feature code plus an extension number, users can start an intercon
	call to this extension. The default code is *88.
Call Parking	Description
	Dial this feature code during a call to put the call on hold and park it at an extension
Call Parking	number directed by the system. Any other phone can dial this extension number to
	resume the conversation. The default feature code is *5.
	By dialing this feature code, Extension A will be parked at another extension
Park Extension	number. Other extensions can dial this extension number to resume the
	conversation with Extension A. The default feature code is 5900.
Park Extension	
Start/Park Extension	The range of extensions where the call can be parked at. The default setting i
End	5901~5999.
	The maximum time for an extension allowed to park. The default value is 90
Park Timeout	seconds.
Call Forwarding	Description
	·
	By dialing this feature code, an extension forwards all calls to its voicemail by
Enable Forward All	
	dialing this feature code plus a designated number, an extension forwards all calls
Enable Forward All Calls	dialing this feature code plus a designated number, an extension forwards all call to this designated number. The default feature code is *72.
Enable Forward All	By dialing this feature code, an extension forwards all calls to its voicemail; by dialing this feature code plus a designated number, an extension forwards all calls to this designated number. The default feature code is *72. Dial this feature code to disable forwarding of all calls. The default feature code is *720.

Toggle Forward All Calls	Dial this feature code to toggle forwarding of all calls. The default feature code is
	*73.
Enable Forward When Busy	By dialing this feature code, an extension forwards all calls to its voicemail when busy; by dialing this feature code plus a designated number, an extension forwards all calls to this designated number when busy. The default feature code is *74.
Disable Forward	Dial this feature code to disable call forwarding when busy. The default feature code
When Busy	is *740.
Enable Forward No Answer	By dialing this feature code, an extension forwards all calls to its voicemail when no answer; by dialing this feature code plus a designated number, an extension forwards all calls to this designated number when no answer. The default feature code is *75.
Disable Forward No Answer	Dial this feature code to disable call forwarding when no answer. The default feature code is *750.
DND	Description
Enable Do Not	Dial this feature code to put the extension into the DND state. The default feature
Disturb	code is *78.
Disable Do Not	Dial this feature code to take the extension out of the DND state. The default feature
Disturb	code is *780.
Toggle Do Not Disturb	Dial this feature code to toggle the DND state. The default feature code is *77.
Call Monitor	Description
Listen	Dial this feature code plus an extension number to monitor the extension. If this feature will work or not is related to the setting of monitor authority. The default value is *90.
Whisper	Dial this feature code plus an extension number to monitor the extension and whisper to it. If this feature will work or not is related to the setting of monitor authority. The default value is *91.
Barge-in	Dial this feature code plus an extension number to enter the call of this extension for monitoring. If this feature will work or not is related to the setting of monitor authority. The default value is *92.
Forcible Hangup	By dialing this feature code in a call, users can disconnect this call forcibly. The default feature code is *6.
Agent	Description
	By dialing this feature code plus a queue number, the extension can follow the
Agent Status	
Agent Status Agent Status ID	prompt to log in and out the queue dynamically. The default feature code is *22. By dialing this feature code plus a queue number, the extension can follow the
Agent Status ID	prompt to log in and out the queue dynamically. The default feature code is *22. By dialing this feature code plus a queue number, the extension can follow the prompt to query the agent status. The default feature code is *23.
-	prompt to log in and out the queue dynamically. The default feature code is *22. By dialing this feature code plus a queue number, the extension can follow the



Query IP	Description
Query LAN IP	By dialing this feature code, the FXS extension can query such information as the
	IP address of LAN. The default feature code is *60.
Query WAN IP	By dialing this feature code, the FXS extension can query such information as the
	IP address of WAN. The default feature code is *61.
CC Routes	Description
CC Routes	When the extension is busy, dial this function key to implement the callback feature.
	The default feature code is *7.

3.4.12 Voice Prompts

3.4.12.1 Voice Prompts

Item	Description
Music On Hold	The music catalog to play when a call is being held. The default setting is default
	catalog.
Play Call	If enabled, the system will play a prompt before transferring a call. By default it is
Forwarding Prompt	unticked.
Music On Hold	Set what to play when a call is being held during call forwarding. The default setting
	is Music On Hold.

3.4.12.2 System Prompt

Item	Description
Upload System	The supported compression format is zip. Please make sure of the integrity of voice
Prompts	packages to guarantee the normal use.
Prompts List	Display all the voice packages in IPPBX and allow you to select one as the system
	prompt.
Language	Two options are available: English (default) and Chinese.

3.4.12.3 Music On Hold

Item	Description
Catalogue	Select a catalogue of music on hold or press the following button + to create a new catalog.
File Path	Select a new music file and upload it to the list.
File List	Music files in the list can be played or removed.

3.4.12.4 Custom Prompt

Item	Description
Upload	The file to be uploaded should be: 8000Hz sampling rate, 16bit, single channel, wav format.
Record	Define the name of a way file, select an extension to record, then click the



RECORD button. When the extension rings, pick up the call and say what you want
to record.

3.4.13 Voicemail

Message Options	Description
Max Messages per	The maximum number of messages to store in a single folder of voicemail. The
Folder	default value is 100.
Max Message Time	The maximum length of a single piece of message. The default value is 300 seconds.
Min Message Time	The minimum length of a single piece of message. The default value is 3 seconds.
Press 5 to leave a message	If this option is ticked, you will hear the prompt: The phone you dial is unavailable now. Please press 5 to leave your message; if it is unticked, you will hear the prompt: The phone you dial is unavailable now. By default it is ticked.
Operator Breakout	If this option is ticked, you will hear an extra prompt: Press 0 for operator. By default
from Voicemail	it is unticked.
Greeting Options	Description
Busy Prompt	Select the greeting that will be played when the extension is busy. The default
визу гтопірі	setting is Default.
Unavailable Prompt	Select the greeting that will be played when the extension is unavailable. The
Onavanable Frompt	default setting is Default.
Playback Options	Description
Announce Message	If this option is ticked, the extension number of the caller who left the message will
Caller ID	be announced before the content of this message. By default it is unticked.
Announce Message	If this option is ticked, the duration of the message will be announced before the
Duration	content of this message. By default it is unticked.
Announce Message	If this option is ticked, the arrival time of the message will be announced before the
Arrival Time	content of this message. By default it is unticked.

3.4.14 Records

Item	Description
Internal Call Being	The prompt that will be played to both the caller and the callee before the recording
Recorded Prompt	of internal calls. The default setting is None.
Outbound/Inbound Calls Being Recorded Prompt	The prompt that will be played to both the caller and the callee before the recording of outbound/inbound calls. The default setting is None.
Record Trunks	Select trunks on which the calls will be recorded. By default it is null.
Record Extensions	Select extensions on which the calls will be recorded. By default it is null.
Record Conferences	Select conference rooms in which the calls will be recorded. By default it is null.
Record Callcenters	Select call center queues in which the calls will be recorded. By default it is null.



3.4.15 Preference

Item	Description
Max Duration	The maximum time length permitted for a call. The default value is 6000 seconds. 0
	means no limit.
Attended Transfer Caller ID	The Caller ID that will be displayed on the recipient's phone. There options
	available: Auto, Transferor (default), Transferee.
	Example: 500 calling 501, 501 transfers this call to502.
	* Auto: When 501 is calling 502, the screen of the 502 extension will show 501 as
	the callerid. When 500 is talking to 502, it shows 500.
	* Transferor: Show 501 all time.
	* Transferee: Show 500 all time.
Distinctive Caller ID	When the incoming call is routed from Ring Group, Queue or IVR, the Caller ID
	would display where it originated. By default it is ticked.
Extension	December 1
Preferences	Description
User Extensions	The number range of user extensions. By default it is 1000~5899.
Ring Group	The number range of user extensions in a ring group. By default it is 6200~6299.
Extensions	
Paging Group	The number range of user extensions in a paging group. By default it is 6300~6399.
Extensions	
Conference	The number range of user extensions in a conference room. By default it is
Extensions	6400~6499.
IVR Extensions	The number range of IVR extensions. By default it is 6500~6599.
Queue Extensions	The number range of user extensions in a call center queue. By default it is
	6700~6799.

3.4.16 SIP Settings

Item	Description
Enable Session	Enable the timer for a SIP session which should be refreshed in a designated time.
Timer	It is ticked by default.
Session Timeout	Set the maximum refresh interval for the session timer. The default value is 1800 seconds.
User Agent	The content of the User-Agent field which is defined by users. The default setting is UC2018.
RTP Range	Set the range of the RTP port used by the PBX. The default setting is 16384-32768.
Nat Options Ping	When it is set to True by default, the PBX will send the options message to all the terminals which register after NAT to keep the active connection to the terminal.
Trunk Profile Setting	Description
Enable	By ticking this option, you can create SIP trunks on the LAN port. It is ticked by

External_LAN	default.
Enable	By ticking this option, you can create SIP trunks on the WAN port. It appears only
External WAN	when the network mode is set to Double or Route. It is ticked by default.
	The IP address to be monitored by using the SIP protocol. By default it is the IP
SIP IP	address of this network port.
SIP Port	The port to be monitored by using the SIP protocol. By default it is 5080.
Public SIP IP	The SIP IP used for NAT traversal when the PBX stays in the LAN.
Public RTP IP	The RTP IP used for NAT traversal when the PBX stays in the LAN.
	If this option is ticked, the SIP trunk will support UDP, TCP, TLS at the same time. It
Enable TLS	is unticked by default.
TLS Only	If this option is ticked, the calls on this SIP trunk will only support TLS.
TLS SIP Port	The default value is 5081.
TLS Version	The TLS version used by the SIP trunk. The default value is tlsv1.
-1.0.0 (15)	The certificate needed in case the PBX works as the client. It will be renamed to
TLS Certificate	agent.pem after it is uploaded.
Extension Profile	
Setting	Description
Enable Internal_LAN	By ticking this option, you can create SIP extensions on the LAN port. It is ticked by
_	default.
Enable	By ticking this option, you can create SIP extensions on the WAN port. It appears
Internal_WAN	only when the network mode is set to Double or Route. It is ticked by default.
SIP IP	The IP address to be monitored by using the SIP protocol. By default it is the IP
	address of this network port.
SIP Port	The port to be monitored by using the SIP protocol. By default it is 5060.
Public SIP IP	The SIP IP used for NAT traversal when the PBX stays in the LAN.
Public RTP IP	The RTP IP used for NAT traversal when the PBX stays in the LAN.
Enable TLS	If this option is ticked, the SIP extension will support UDP, TCP, TLS at the same
	time. It is unticked by default.
TLS Only	TLS If this option is ticked, the calls on this SIP extension will only support TLS.
TLS SIP Port	The default value is 5061
TLS Version	The TLS version used by the SIP extension. The default value is tlsv1.
Create CA	When the PBX works as the Server, the CA certificate is used to generate Client
Certificate	and Server certificates, with the filename cafile.pem.
Create Server	It is a certificate needed when the PBX works as the Server, with the filename
Certificate	agent.pem.
Create Client	It is a certificate provided by the PBX for other clients to use, generated by using the
Certificate	same CA certificate of the Server certificate, with the filename client.pem.



3.4.17 Regular Expression

		1		$\overline{}$
	Character		Description	_
	"0"~"9"	Digits 0~9.		
	" ^ "	'^' means the	e starting of match. For example, ^13 indicates	s to
		match any ni	umber starting with 13.	
	"\$	'\$' means the	e ending of match. For example, 56\$ indicates	s to
	Ψ	match any ni	umber ending with 56.	
		'\d' represent	s any digit number. \d{4} indicates to match a	any
	"\d"	number of 4	digits. \d+ indicates to match any digit numbe	er
		consisting of	more than one byte;	
	""	'.' indicates to	o match a random character which can be	
	•	letters, *, #, o	digits 0~9.	
		'*' means to	replicate the previous character. For example	,
	"*"	\d* indicates	to match digit numbers of any length; .*	
		indicates to r	match characters of any length.	
		'[]' is used to	define the range for a number. Values within	ı it
	"[]"	only can be	digits '0~9', punctuations '-' and','. For examp	le,
DECEMBER D. I.		[1-3,6,8] indi	cates any one of the numbers 1, 2, 3, 6, 8.	
REGEX Matching Rule	"_"	'-' is used on	ly in '[]' between two numbers to indicate any	/
		number betw	een these two numbers.	_
		',' is used to	separate numbers or number ranges in'[]',	
	u "	representing	alternatives. For example, [1,3,5]indicates ar	ıy
	,	one of the nu	umbers 1, 3, 5; [1-3,6-9]indicates any one of the	he
		numbers1, 2	, 3, 6, 7, 8, 9.	
	The default value for IPPBX is usually \d*. The table below lists some			
	matching rule	es commonly us	sed.	
	Mato	hing Rule	Description	
	\d*		Digit number of any length	
		1[3,5,8]\d{9}	Any 12-digit number starting with 013,	
			015 or 018	
		010[6-8]\d{7}	Any 11-digit number starting with 0106,	
			0107 or 0108	
		0	Digit number of any length ending with	
			110	
	120		Full-match number 120	
	.*		Character of any length	



3.5 System

3.5.1 Network Settings

3.5.1.1 Basic Settings

Item	Description
Hostname	The default value is synway.
	Three options available: Dual, Bridge, Route. The default mode is Dual.
	Dual: Use Both Eth to communicate.
Mode	Bridge: Working as switch with LAN address activate.
	Route: Working as a router, Only WAN used to communicate, LAN supports DHCP
	server in Router Mode.
Defectly Interfere	When the IPPBX is in the Dual network mode, users should make an interface
Default Interface	selection from LAN and WAN. The default setting is LAN.
IPv4	Description
Network Mode	Three options available: IP, DHCP, PPPoE, which are the same as the PC in
	settings.
IPv6	Description
Network Mode	Two options available: Static IP, DHCP.

3.5.1.2 Static Routes

Item	Description
Add Routes	The way to add routes is the same as that for the PC.

3.5.2 Security Strategy

3.5.2.1 Security Strategy

Static Defense	Description
Enable Firewall	It is ticked by default.
Enable Ping	If it is unticked, the ping will be forbidden. By default it is ticked.
Drop All	By default it is unticked. Add at least one rule that allows TCP to connect to HTTPS:443, telnet:23 before ticking.
Add	The way to add a static security strategy is the same as adding a firewall rule for
Add	Linux.
Auto Defense	Description
Port	Enter the port for auto defense. It is null by default and must be filled in; otherwise
	the configuration will fail to be saved.
Protocol	Select a protocol for auto defense, including TCP (default) and UDP.
Number of IP	The allowed number of packets received within the 'time interval'. If the amount of



Packets	data from a certain IP packet within the 'time interval' exceeds this threshold, the IP will be blacklisted. It is null by default and must be filled in; otherwise the configuration will fail to be saved.
Time Interval	Time interval for receiving packets, calculated by second. It is null by default and must be filled in; otherwise the configuration will fail to be saved.
Blacklist	Those calls which meet the above set conditions will be blacklisted herein. It can be manually deleted.
IP White List	Description
	Name of the ID whiteliet. It is null by default and must be filled in: etherwise the
Rule Name	Name of the IP whitelist. It is null by default and must be filled in; otherwise the configuration will fail to be saved.
Rule Name Description	·
	configuration will fail to be saved.

3.5.2.2 Service

Service	Description
Auto Logout Time	Set the automatic logout time of the webpage, up to 120 minutes, the default value
	is 60, calculated by minute.
Protocol	Select the type for webpage access, the default setting is HTTPS.
Port	Set the port for webpage access, the default value is 443.
Redirect from Port	If it is enabled, the access to Port 80 using the HTTP protocol will be automatically
80	redirected to the corresponding port of HTTPS. By default it is ticked.
	Set whether to enable Telnet and the corresponding port. By default it is ticked and
Enable Telnet	the port is 23.
	Set whether to enable FTP and the corresponding port. By default it is ticked and
Enable FTP	the port is 21. The FTP login username and password are the same as the admin
	user. After logging in, you can check the recording data under the storage space
	such as FLASH, USB mobile hard disk and TF card.
Enable TFTP	Set whether to enable TFTP. By default it is ticked.

3.5.3 Date Time Settings

Item	Description
Current System	Display the suggest system date and time of the DDV
Time	Display the current system date and time of the PBX.
Time Zone	The default setting is GMT+8:00 (Beijing).
Set up Manually	Set the date and time manually. Tick the option System Time below and you can
	manually set the time.



Synchronized with	Fill in the address or domain name of a NTP server and the PBX will synchronize
NTP Server	with it in time automatically.

3.5.4 Storage

3.5.4.1 Preference

3.5.4.1.1 Storage Locations

Item	Description
	A location to store your voicemail. It is Local Flash by default. If you plug TF or USB
Voicemail	storage cards to the PBX, or add network disks, there will be more options: TF/SD,
	USB or the network disk (user-defined name).
	A location to store your recordings. It is Local Flash by default. If you plug TF or
Recordings	USB storage cards to the PBX, or add network disks, there will be more options:
	TF/SD, USB or the network disk (user-defined name).
	A location to store your One Touch Recordings. It is Local Flash by default. If you
OTR	plug TF or USB storage cards to the PBX, or add network disks, there will be more
	options: TF/SD, USB or the network disk (user-defined name).
	A location to store your logs. It is Local Flash by default. If you plug TF or USB
Logs	storage cards to the PBX, or add network disks, there will be more options: TF/SD,
	USB or the network disk (user-defined name).

3.5.4.1.2 Storage Devices

Item	Description
LOCAL	Display the total storage, available size, usage of the local flash card, providing a
	reference for storage setting.
TF/SD	Display the total storage, available size, usage of the external TF card, providing a
	reference for storage setting.
USB	Display the total storage, available size, usage of the external USB card, providing
	a reference for storage setting.
NETDISK	Display the total storage, available size, usage of the added network disk, providing
	a reference for storage setting.

3.5.4.2 Auto Cleanup

3.5.4.2.1 CDR Auto Cleanup

Item	Description
	Set the maximum number of CDR that should be retained. The default value is 10
Max Number of CDR	and the value 0 means no limit. If the threshold is reached, the oldest CDR will be
	deleted.
	Set the maximum number of days when CDR should be retained. The default value
CDR Preservation	is 0 which means no limitation. If the threshold is reached, the oldest CDR will be
Duration	deleted.



3.5.4.2.2 Voicemail and One Touch Recording Auto Cleanup

Item	Description
Max Number of Files	Set the maximum number of voicemail and one touch recording files that should be
	retained respectively for each extension. The default value is 30. If the threshold is
	reached, the oldest data will be deleted.
Preservation Duration	Set the maximum number of days for voicemail and one touch recording files to be
	retained respectively for each extension. The default value is 0 which means no
	limitation. If the threshold is reached, the oldest data will be deleted.
Files Preservation Duration	Set the maximum number of minutes for voicemail and one touch recording files to
	be retained respectively for each extension. The default value is 0 which means no
	limitation. If the threshold is reached, the oldest data will be deleted.

3.5.4.2.3 Recordings Auto Cleanup

Item	Description
Max Usage of Device	Set the maximum storage percentage of recording files for the device. The default value is 80% and the value range is 30%~90%. If the threshold is reached, the oldest data will be deleted.
Rec Preservation Duration	Set the maximum number of days for recording files to be retained. The default value is 0 which means no limitation. If the threshold is reached, the oldest data will be deleted.

3.5.4.2.4 Logs Auto Cleanup

Item	Description
Max Size of Total	Set the maximum size of logs that can be saved per file. The default value is 50MB.
Logs	If the threshold is reached, the oldest data will be deleted.
Logs Preservation	Set the maximum number of log files to be saved. The default value is "7", and "0"
Duration	means no limit.

3.5.4.2.5 Backups

Item	Description
Auto Upload FTP	After the information of the FTP server is configured, the recording file will be
	uploaded automatically. The default setting is False.
EED Address a	FTP server address, format: xxx:xxx:xxx:xxx or xxx:xxx:xxx:xxx. It is null by
FTP Address	default and must be filled in; otherwise the configuration will fail to be saved.
Username	User name used on the FTP server
Password	Password used on the FTP server
	Real Time (default): upload every 5 minutes
Upload Time	Timing: Upload at a fixed time every day. If you select this item, you need to set the
	startup time and the default setting is 00:00.
Delete Source File	Set whether to delete the original recording file after it is uploaded. The default
	setting is False.
FTP Test	After the above configurations are set, you can test whether the FTP connection



goes normal.

3.5.5 User Permission

3.5.5.1 Users

This interface is used for adding WEB users. The default user and its password are both admin. The admin user can log in to the device through FTP to access the USB, network disk and local recording folder. The initial password is admin and you can modify it via the web page.

Item	Description
Username	User-defined, not allowed to be Admin.
Password	User-defined.
Groups	Determine the user's authority

3.5.5.2 User Group

Item	Description
	By default an administrator group has the authority to check status, call records and
Admin	set recordings, as well as PBX, system and all functional modules. The exact
	authority of corresponding functional modules can be set by requirements.
	By default a public group only has the authority to check status and call records, as
Public	well as play and query recordings. The exact authority of corresponding functional
	modules can be set by requirements.
	By default a user group only has the authority to check status and call records, as
User	well as play and query recordings. The exact authority of corresponding functional
	modules can be set by requirements.

3.5.6 Event Setting

3.5.6.1 System Settings

Item	Description
User Login Success	If this option is ticked, the event will be reported after the user logs in successfully.
	By default it is unticked.
CPU Overload	If this option is ticked, the event will be reported when the CPU reaches the
	threshold. By default it is unticked and the threshold is 90%.
Local Storage Full	If this option is ticked, the event will be reported when the local storage space
	reaches the threshold. By default it is unticked and the threshold is 90%.
Memory Overload	If this option is ticked, the event will be reported when the memory usage reaches
	the threshold. By default it is unticked and the threshold is 90%.
Usb Storage Full	If this option is ticked, the event will be reported when the USB storage space
	reaches the threshold. By default it is unticked and the threshold is 90%.

Network Attacked	If this option is ticked, the event will be reported when the network is attacked. By
	default it is unticked.
Network Failure	If this option is ticked, the event will be reported when the network connection fails.
	By default it is unticked.
System Reboot	If this option is ticked, the event will be reported when the system restarts. By
	default it is unticked.
PBX Upgrade	If this option is ticked, the event will be reported when the device is upgraded. By
	default it is unticked.

3.5.6.2 PBX Settings

Item	Description
Emergency Call	If this option is ticked, the event will be reported when an emergency call is
	triggered. By default it is unticked.
Outbound Call	If this option is ticked, the event will be reported when the outbound call fails. By
Failure	default it is unticked.
Register SIP Trunk	If this option is ticked, the event will be reported when the SIP trunk registration
Failed	fails. By default it is unticked.
Peer to Peer SIP	If this option is ticked, the event will be reported when the peer-to-peer SIP trunk is
Trunk Unreachable	unreachable. By default it is unticked.

3.5.6.3 Notification Contacts

Item	Description
Choose Contacts	Select a contact, which can be an FXS extension or a SIP extension. The default setting is Default.
Contact Name	Contact name. It is null by default and must be filled in; otherwise the configuration will fail to be saved.
Email Address	Email address. This item must be filled in when Email is ticked as the notification method, otherwise the configuration will fail to be saved.

3.5.7 Email Settings

Item	Description
Username	The email account which is used to send emails, in the format of god@qq.com. It is
	null by default and must be filled in; otherwise the configuration will fail to be saved.
Password	The login password of the Email account used to send emails. It is null by default
	and must be filled in; otherwise the configuration will fail to be saved.
Display Name	The display name for the email being sent. It is null by default and must be filled in;
	otherwise the configuration will fail to be saved.
Send Mail Server	Only the SMTP server is supported now whose format is smtp.qq.com. It is null by
	default and must be filled in; otherwise the configuration will fail to be saved.
Port	The port of the SMTP server, with the default setting of 25. It must be filled in;

	otherwise the configuration will fail to be saved.
Enable SSL/TLS	Depend on if the mail server requires or not. It is ticked by default.
Test Mail	After settings are done, click Test Mail to check if the settings are correct. A test
	email will be send to the mailbox.

3.5.8 Centralized Manage Setting

Item	Description
Centralized Manage	Tick Enable to start centralized management. It is unticked by default.
Centralized	
Management	Centralized management protocol. The default setting is SNMP.
Protocol	
Server Address	Server address. The default setting is 127.0.0.1.
Monitoring Port	Listening port number. The default value is 161.
Community String	Community. The default setting is public.

3.6 Maintenance

3.6.1 Upgrade

Item	Description
Manual Upgrade	Use the upgrading file to upgrade the PBX version manually.

3.6.2 Reboot

Item	Description
Reboot	Reboot the IPPBX system.
Auto Reboot	Set auto reboot in a day, a week or a month.

3.6.3 Backup and Restore

3.6.3.1 Backup

The backup content includes: User Configuration, System Configuration (default), Network Configuration, CDR, Operation Log Record, Customized Voice Prompt Files (default), System Voice Prompt Files. Users can customize the backup content.



3.6.3.2 Restore

Click the Browse button to select a backup file on your PC to restore your device.

3.6.3.3 Backup Lists

Display all lists of files that have been backed up with the backup time. Here you can select a backup file to restore.

3.6.4 Reset

Item	Description
Reset	Restore to the factory settings. You can choose not to restore the network settings. You should enter the correct verification code for reset, which is randomly generated

3.6.5 PBX LOG

Item	Description
Log Level	Six options available: CONSOLE, INFO, NOTICE, WARNING, ERROR, DEBUG.
	When DEBUG is ticked, you can set subsequently whether to output 'siptrace'
	which is the log of SIP messages.
Log List	The system will generate a log file every day which can be downloaded and
	deleted.

3.6.6 Operation Log

Item	Description
Filter	Main WEB operations will all be recorded to operation logs which can be queried by
	Username, IP Address, Start and End Date.
Display	The log list will display the operation time, the user who operated, the IP address,
	the type of operation as well as the operation details.

3.6.7 Log Viewer

Item	Description
Log Viewer	The key calls will be recorded in logs. On this interface you can filter those logs and
	sort them in descending order, show their line numbers and set their display size so
	as to better view the current log information.



3.6.8 Trouble Shooting

Item	Description
Ethernet Capture	Set filter conditions for network capture, such as SIP only, both SIP and RTP, etc.
Tool	
Port Monitoring Tool	Designate an FXO or FXS port for recording.
IP Ping	Test connection of the destination via IP ping.
Trace Route	Test the network route and path as well as the response time.

3.6.9 Authorization

3.6.9.1 Authorization Info

Item	Description
Serial Number	Device serial number
Max Sessions	Concurrent number. The default value for UC200 is 15 and that for UC500 is 30.
Max extensions	The number of extensions. The default value for UC200 is 60 and that for UC500 is
	150.

3.6.9.2 Upload Authorization File

Item	Description
Upload	Manually upload the authorization file to the IPPBX and you can view the latest
	authorized information in 'Authorization Information'.

3.6.9.3 Clear Authorization

Item	Description
Clear	Enter your password to do the clearance.

3.6.10 Event Log

Item	Description
Event Query	All the logs that are reported by the trigger event will be recorded in the event log.
	You can query them by 'Event Type', 'Event Name', and 'Time'.
Event Display	The log list shows such detail information as time, event type, event name, and log
	content.



Appendix A Troubleshooting

Q1. What to do if I forget the IP address of UC200/UC500?

There are two ways to get the IP address:

- 1) Long press the Reset button on UC200/UC500 to restore to factory settings. The default IP address is 192.168.1.101 (WAN) or 192.168.0.101 (LAN).
- 2) Dial the corresponding function key through an FXS port to query the IP address. See Function Key for more details.

Q2. Which RTP codecs are supported by UC200/UC500?

At present, the supported RTP codecs are: G.711A, G.711U, G.729.

Q3. How to configure the features Communication without Power for UC200/UC500?

The feature Communication without Power is implemented in hardware. Once the power to the device is cut off, the station which is linked with the FXS port of UC200/UC500 and the trunk which is linked with the FXO port will connect to each other directly and keep the good communications between phones and networks. The FXS and FXO ports are one-to-one correspondence.

Q4. Which size and brand of TF cards are supported for expansion?

Size: up to 256G.

Data writing speed: ≥60MB/s.

- Sandisk Extreme Pro Series;
- Sandisk Extreme Series;
- Samsung Pro Series.

Q5. Which size of external USB drives is supported?

Standard: USB2.0.

Size: up to 1T.

Q6. What is the encoding format for recording?

PCM16 single track.



Q7. Which encoding formats are supported for the user-defined prompts?

G711 A, G711 U, PCM16 wav files (8kHz single track).

Q8. How to register a SIP extension to UC200 via the WAN port?

To register a SIP extension to UC200 via the LAN port, use the IP address of the LAN port directly as the address of the registrar. However, to register a SIP extension to UC200 via the WAN port, you need to use the proxy mode, filling the IP address of the LAN port as the domain name and the IP address of the WAN port as the proxy server address.

Q9. Which are the monitoring ports respectively for SIP extensions and SIP trunks on UC200/UC500?

The monitoring port for SIP extensions on UC200/UC500 is 5060 while that for SIP trunks is 5080, both of which can be modified in SIP settings according to your requirements.



Appendix B Technical/sales Support

Thank you for choosing Synway. Please contact us should you have any inquiry regarding our products. We shall do our best to help you.

Headquarters

Synway Information Engineering Co., Ltd

http://www.synway.net/

9F, Synway D&R Center, No.3756, Nanhuan Road, Binjiang District,

Hangzhou, P.R.China, 310053

Tel: +86-571-88860561 Fax: +86-571-88850923

Wechat QR Code: Scan the QR code below to add us on Wechat.



Technical Support

Tel: +86-571-88864579

Mobile: +86-18905817070

Email: techsupport@sanhuid.com

Email: techsupport@synway.net

MSN: synway.support@hotmail.com

Sales Department

Tel: +86-571-88860561

Tel: +86-571-88864579

Fax: +86-571-88850923

Email: sales@synway.net