

User Manual

Version 1.6.0

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



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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 1-1IPPBX 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, wakeup service, paging, 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.



CC Routes	When the extension is busy, the call will be recorded. After the callback interval, the call will be dialed back.
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 Paging	Meet such requirements as paging 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.
PIN Code Signaling & Protocol	This feature is supported for outbound routes, DISA, conference, voicemail, etc. Description
PIN Code Signaling & Protocol SIP Signaling	This feature is supported for outbound routes, DISA, conference, voicemail, etc. Description Supported protocol: SIP V1.0/2.0, RFC3261
PIN Code Signaling & Protocol SIP Signaling Voice	This feature is supported for outbound routes, DISA, conference, voicemail, etc. Description Supported protocol: SIP V1.0/2.0, RFC3261 CODEC G.711A, G.711U, G.729 DTME Mode REC2833
PIN Code Signaling & Protocol SIP Signaling Voice Network	This feature is supported for outbound routes, DISA, conference, voicemail, etc. Description Supported protocol: SIP V1.0/2.0, RFC3261 CODEC G.711A, G.711U, G.729 DTMF Mode RFC2833, RFC4733, SIP INFO, INBAND Description
PIN CodeSignaling & ProtocolSIP SignalingVoiceNetworkNetwork	This feature is supported for outbound routes, DISA, conference, voicemail, etc. Description 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.
PIN Code Signaling & Protocol SIP Signaling Voice Network Network Static IP	This feature is supported for outbound routes, DISA, conference, voicemail, etc. Description 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.
PIN CodeSignaling & ProtocolSIP SignalingVoiceNetworkNetwork ProtocolStatic IPDHCP	This feature is supported for outbound routes, DISA, conference, voicemail, etc. Description 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.
PIN CodeSignaling & ProtocolSIP SignalingVoiceNetworkNetwork ProtocolStatic IPDHCPDNS	This feature is supported for outbound routes, DISA, conference, voicemail, etc. Description 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. Image: State Sta
PIN CodeSignaling & ProtocolSIP SignalingVoiceNetworkStatic IPDHCPDNSSecurity	This feature is supported for outbound routes, DISA, conference, voicemail, etc. Description 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
PIN CodeSignaling & ProtocolSIP SignalingVoiceNetworkNetwork ProtocolStatic IPDHCPDNSSecurityACL	This feature is supported for outbound routes, DISA, conference, voicemail, etc. Description 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 Description This feature is supported for extension registration and WEB access, etc.
PIN CodeSignaling & ProtocolSIP SignalingVoiceNetworkNetwork ProtocolStatic IPDHCPDNSSecurityACLAuto Defense	Description Description 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. 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.



Maintain & Upgrade	Description
WEB Configuration	Support of configurations through the WEB user interface.
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
- 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 <u>https://192.168.0.101</u> 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.

WANIP: 192.168.1.101;

LANIP: 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/UC500H
Serial Number	Unique identifier of the device
Max Sessions	The default value for UC200 is 15, for UC500 is 30, for UC500H is 30. It can be
	authorized.
Max Extensions	The default value for UC200 is 60, for UC500 is 150, for UC500H 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
МАС	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
	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.

3.2.1.2.2 WAN

Item	Description
TYPE	Static IP, DHCP or PPPoE
МАС	MAC address of WAN
IP Address	IP address of WAN
Subnet Mask	Information about subnet mask
Preferred DNS	
Server	Information about preferred DNS 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

ltem	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
NetDisk	Display of total and used storage of the network disk space as well as the utilization

3.2.2 PBX Status

3.2.2.1 PBX Monitor

3.2.2.1.1 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.

3.2.2.1.2 Trunk

Item	Description
Trunk Name	User-defined name of the trunk
Туре	Trunk type, FXO or SIP
Trunk Status	For an FXO trunk, display of status: unusable/idle/in use; for a SIP peer trunk,
	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.

3.2.2.2 Module Status (Special for UC500H)

Item	Description
No.	Slot number index, 6 slots in total.
Module IP	Display the IP address of the module in the slot.
Gateway Type	The type of the module in the slot, including digital, analog (FXS or FXO), wireless, etc.
Configuration	Click to enter the subpage of the module configuration and do corresponding operations.

3.2.2.3 Active Call Queue

Item	Description
	Statistics for queue connection rate, total number of calls, number of connected
Active Call Center	calls, number of waiting calls, number of abandoned calls, average waiting time,
	average talking time.
Agents	Click to view the statistics information about the agents in the queue (Extension,
	Total Calls, Answered, Missed, Caller Hangup While Agent Ringing, Login Time,
	Talk Time, Agent Type, Agent Status)



Queue	Click to view the call status information (Status, Caller, Called, Location, Wait Time,
	Talk Time), and you can hang up, monitor and transfer the current call.

3.2.2.4 Active Calls

Item	Description
Eavesdrop	Click to monitor the current call
Kill	Click to end the current call compulsively

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.
Call From	Usually it is the calling party number.
Call To	Search the CDR information according to the final destination number.
Direction	Three options available: Inbound, Outbound and Local
Call 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.
MOS Seere	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).
Original Destination	Query CDR according to the original destination of the caller.
Trunk Name	Query CDR according to the used trunk name.
Outbound CallerId	Query CDP according to the colling party number of the outgoing coll
Number	
Last Destination	Search the CDR information according to the lastest destination.
DID Number	Search the CDR information according to the DID number.
Wait Time in Queue	Search the CDR information according to the wait time in queue.
Agent Ring Time	Search the CDR information according to the agent ring time.
Agent Talk Time	Search the CDR information according to the agent talk time.

3.3.2 Extension Summary

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



Basic	Description
Quick Select	Count extension calls based on an approximate time. The default setting is today.
Custom Choose	Description
Time Range	Count extension calls according to the start and end times.

3.3.3Conference Recording Session

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

Basic	Description
Start Time/End Time	Query conference calls according to the start and end times.
Room Name	Name of the conference room.
Conference Center	Number of the conference center.
Number	

3.4 PBX

3.4.1 Extensions

3.4.1.1 Extensions

3.4.1.1.1 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'.
Beering	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.
lises Decement	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.
Prompt Language	The language of voice prompts. Three options available: System Default, Chinese
	and English. System Default means to use the same language as set in Voice



.4.1.1.2 Features	
Voicemail	Description
Voicemail Enabled	Once this feature is enabled, the call to this extension will enter the voicemail if
	failed. By default, the setting is True.
Voicomail Password	The password to enter the extension voicemail which is a randomly generated value
voicemaii 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
	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;
1 1 1 1 1 1 1 1 1	All: All the following 3 modes will be available for use;
wonitor wode	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 redirect calls to the designated destination within the period set by the
Always	following time condition select box. The default setting is Disabled.
A A	Redirect calls to the designated destination if the extension is busy within the period
On Busy	set by the following time condition select box. The default setting is Disabled.
	Redirect calls to the designated destination if not answered within the period set by
No Answer	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
	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
	When DND is enabled for an extension, it will reject all incoming calls. The default
Do Not Disturb	setting is Disabled.

Prompts.



3.4.1.1.3 Advanced

RTP Settings	Description
5	When this feature is enabled, the RTP stream is encrypted, sharing the same
Ellable SKTP	certification with TLS. The default setting is False.
	Set whether to send the media stream point to point or in transparent proxy mode.
	Proxy Media: The media stream will pass IPPBX (default);
SIP Bypass Media	Bypass Media: The media stream will be transported point to point.
	Do not enable recording when set to 'Bypass Media' to avoid problems.
RTP Codec String	Set RTP Codecs. So far G711A, G711U, G729, G722 are supported.
Register Settings	Description
	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
AuthACL	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
	Send the OPTIONS message to this extension to check if it is registered and
Online Detection	reachable. The default setting is False
	Calculated by second. The default value 0 means using the registration validity of
SIR Force Expires	SIP extensions while other values mean compulsively using the registration validity
SIF Force Expires	of IPPBX, Range: 0~3600.
	Poply to now PECISTEP messages with time difference. This item should work
	with SID Force Expires For example if SID Force Expires is set 1900 accords
SIP Expires Max	with SiP Force Expires. For example, if SiP Force Expires is set 1800 seconds
Deviation	and this item is set 600 seconds, the value of Expires in the 2000k 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.
	It is null by default, which means not to verify the UserAgent field in the Register
UserAgent Filter	message. If it is not set to null, a SIP extension can register successfully only when
J. J	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 Timoout	Set the maximum ringing duration in seconds for every call of this extension. The
	default value is 30s.
	Set the maximum call duration in seconds for every call of this extension, the call
Max Call Duration	will be terminated once it exceeds the time. This item is only valid for calling
	external numbers. The default value is 6000s.
Wait Dial Tone Time	The maximum time to wait for the dial tone, calculated by ms. The default value is 0
Out	
	Wait Dial Timeout, with the default value of 10000 in milliseconds. The value range
Wait Dial Timeout	is 6000-15000ms.
	Digit Timeout, with the default value of 2000 in milliseconds. The value range is
Digit Timeout	1000-10000ms.
Outbound	When this feature is set to True, this extension cannot call out except for emergency



Restriction	numbers. The default setting is False.
	When this feature is enabled, the remote SIP trunk devices can use this extension
Extension Trunk	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.
	CallerID name of this extension trunk displayed in an outbound call once the
Outbound CallerId	Extension Trunk feature is enabled, having a higher priority than similar settings in
Name	Extensions.
_	CallerID number of this extension trunk displayed in an outbound call once the
Outbound CallerId	Extension Trunk feature is enabled, having a higher priority than similar settings in
Number	Extensions.
	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
Call Permission	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
Hotline Settings	
The octaining of the second se	After EXS bookoff, if you do not have any operations, it will call the bottine number
Hotline Number	which is 2 to 30 hits in length. By default it is null
	Hotling timogut with the default value of 2000 in milliseconds. The value range is
Hotline Timeout	
	$0 \sim 10000$ (ms) and this value must be less than Wait Dial Timeout
EVS Sottings	0~10000(ms) and this value must be less than Wait Dial Timeout.
FXS Settings	0~10000(ms) and this value must be less than Wait Dial Timeout. Description Set the minimum amount of time, in millioneende, that a back fleeb must remain.
FXS Settings	0~10000(ms) and this value must be less than Wait Dial Timeout. Description Set the minimum amount of time, in milliseconds, that a hook flash must remain depressed in order for the output to consider it as a welld flash event. The default
FXS Settings Min Flash Detection	0~10000(ms) and this value must be less than Wait Dial Timeout. Description 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 200me
FXS Settings Min Flash Detection	0~10000(ms) and this value must be less than Wait Dial Timeout. Description 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. Out the maximum ensure of time, in milliseconds, that a hook flash must remain
FXS Settings Min Flash Detection	0~10000(ms) and this value must be less than Wait Dial Timeout. Description 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. Set the maximum amount of time, in milliseconds, that a hook flash must remain the maximum amount of time, in milliseconds, that a hook flash must remain
FXS Settings Min Flash Detection Max Flash Detection	0~10000(ms) and this value must be less than Wait Dial Timeout. Description 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. 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 4000ms.
FXS Settings Min Flash Detection Max Flash Detection	0~10000(ms) and this value must be less than Wait Dial Timeout. Description 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. 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. 2. Little solutions is the start of the st
FXS Settings Min Flash Detection Max Flash Detection RX Volume	0~10000(ms) and this value must be less than Wait Dial Timeout. Description 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. 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. Set the volume in the direction from the analog phone to the FXS port. The value
FXS Settings Min Flash Detection Max Flash Detection RX Volume	0~10000(ms) and this value must be less than Wait Dial Timeout. Description 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. 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. 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.
FXS Settings Min Flash Detection Max Flash Detection RX Volume TX Volume	0~10000(ms) and this value must be less than Wait Dial Timeout. Description 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. 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. 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. Set the volume in the direction from the FXS port to the analog phone. The value
FXS SettingsMin Flash DetectionMax Flash DetectionRX VolumeTX Volume	0~10000(ms) and this value must be less than Wait Dial Timeout. Description 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. 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. 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. 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.
FXS SettingsMin Flash DetectionMax Flash DetectionRX VolumeTX VolumeEcho Cancellation	0~10000(ms) and this value must be less than Wait Dial Timeout. Description 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. 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. 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. 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. The default value is 64ms
FXS SettingsMin Flash DetectionMax Flash DetectionRX VolumeTX VolumeEcho CancellationLevel	0~10000(ms) and this value must be less than Wait Dial Timeout. Description 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. 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. 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. 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. The default value is 64ms
FXS Settings Min Flash Detection Max Flash Detection RX Volume TX Volume Echo Cancellation Level Enable Cut DTMF	0~10000(ms) and this value must be less than Wait Dial Timeout. Description 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. 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. 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. 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. 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. 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. Set the length of the in-band DTMF voice to cut. Do not set it too large lest normal
FXS Settings Min Flash Detection Max Flash Detection RX Volume TX Volume Echo Cancellation Level Enable Cut DTMF	0~10000(ms) and this value must be less than Wait Dial Timeout. Description 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. 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. 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. 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. 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. Set the length of the in-band DTMF voice to cut. Do not set it too large lest normal voice signals be cut. The default value is 25.
FXS Settings Min Flash Detection Max Flash Detection RX Volume TX Volume Echo Cancellation Level Enable Cut DTMF Enable DTMF	0~10000(ms) and this value must be less than Wait Dial Timeout. Description 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. 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. 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. 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. Set the length of the in-band DTMF voice to cut. Do not set it too large lest normal voice signals be cut. The default value is 25. Enable the DTMF passthrough during the conversation. By default it is unticked
FXS SettingsMin Flash DetectionMax Flash DetectionRX VolumeTX VolumeEcho CancellationLevelEnable Cut DTMFEnable DTMFPassthrough	0~10000(ms) and this value must be less than Wait Dial Timeout. Description 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. 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. 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. 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. The default value is 64ms Set the length of the in-band DTMF voice to cut. Do not set it too large lest normal voice signals be cut. The default value is 25. Enable the DTMF passthrough during the conversation. By default it is unticked.
FXS Settings Min Flash Detection Max Flash Detection RX Volume TX Volume Echo Cancellation Level Enable Cut DTMF Passthrough	0~10000(ms) and this value must be less than Wait Dial Timeout. Description 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. 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. 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. 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. Set the length of the in-band DTMF voice to cut. Do not set it too large lest normal voice signals be cut. The default value is 25. 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
FXS Settings Min Flash Detection Max Flash Detection RX Volume TX Volume Echo Cancellation Level Enable Cut DTMF Passthrough Flash Event	0~10000(ms) and this value must be less than Wait Dial Timeout. Description 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. 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. 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. 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. The default value is 64ms Set the length of the in-band DTMF voice to cut. Do not set it too large lest normal voice signals be cut. The default value is 25. 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 calling or call forwarding. The corresponding options are 3 Way (default) and Call
FXS Settings Min Flash Detection Max Flash Detection RX Volume TX Volume Echo Cancellation Level Enable Cut DTMF Passthrough Flash Event	0~10000(ms) and this value must be less than Wait Dial Timeout. Description 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. 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. 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. 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. Set the length of the in-band DTMF voice to cut. Do not set it too large lest normal voice signals be cut. The default value is 25. 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 calling or call forwarding. The corresponding options are 3 Way (default) and Call Swap.



	20-800 and the default value is 100ms.
DTMF Gap	Set the interval for FXS to send DTMF tones, calculated by ms. The value range is
	20-800 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.

3.4.1.2 Extension Groups

ltem	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.

3.4.2 Trunks

3.4.2.1 Basic

ltem	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.
Trononort	Three options available: UDP, TCP, TLS. TLS goes valid only if it is enabled in SIP
Transport	Settings. The default setting is udp.
Devictor	Set whether to register the SIP trunk, which is determined by the trunk provider. The
Register	default setting is False.
Drofile	Two options available: LAN (default), WAN. Note that the UC500H has an inner
Profile	network port which must be used by the module.
Trunk ID/Domoin	IP address or domain name of the SIP trunk plus port number. The module trunk of
Trunk IP/Domain	the UC500H is just the module IP address.
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.
Reg Fail 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.
Number	than similar settings in <i>Extensions</i> . By default it is null.

3.4.2.2 CODEC

ltem	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 beassigned.

3.4.2.3 Advance

VoIP 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.
Cand Drive av ID	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.
-	Set the volume for voice from the SIP line to the IP port. The value ranges from -4 to
IX Volume	4 and the default value is 0.
	Set the volume for voice from the IP port to the SIP line. The value ranges from -4 to
RX Volume	4 and the default value is 0.
	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.
	When you select 'rewrite-contact-IP', the host field representing contact is
SIP Force Contact	overwritten by the source IP address.
	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
	Set the maximum number of concurrent calls for this SIP. The default value is 0
Limit Max Calls	which means no limit.
Enable Early	
Session	Add the message header <i>P-Early-Session: supported</i> to the SIP message.
Enable Early Media	Add the message header <i>P-Early-Media: supported</i> to the SIP message.
User Phone	You can add content to the To field of the INVITE message.
Call Timout	Set the maximum response time of the trunk for a call out from it. The default value
	is 30s.
	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	Description
DNIS	Dial Number Identification Service is used to identify which trunk a call comes in. It
	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
DNIS Number	which users determine the value of DNIS Name.
FXO	Description
TX Volumo	Set the volume in the direction from the FXO port to the analog phone. The value
	range is -7~7 and the default value is 0.
BX Volumo	Set the volume in the direction from the analog phone to the FXO port. The value
KA Volume	range is -7~7 and the default value is 0.
Hangup Detection	Description
Hangup Detection	Two methods available: Busy Tone (default) and Polarity
Method	Two methods available. Busy Tone (deladit) and Folanty.
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 before detecting the next busy tone, calculated by 20ms. The
Tone	default value is 25.
Busy Tone	Set the cycle to detect the busy tone, calculated by 20ms. The default value is 200
Detection Cycle	
Answer Detection	Description
	Set whether to use the Polarity method to detect if the remote end picks up the call
	and answers
Anouvor Dotoction	None (default): Once an FXO outbound number is successfully sent, the call will be
Answer Delection	None (default): Once an FXO outbound number is successfully sent, the call will be regarded as answered by the callee and the IPPBX will send 200ok message in the
Method	None (default): Once an FXO outbound number is successfully sent, the call will be regarded as answered by the callee and the IPPBX will send 200ok message in the direction to the caller.
Method	None (default): Once an FXO outbound number is successfully sent, the call will be regarded as answered by the callee and the IPPBX will send 200ok message in the direction to the caller. Polarity: When an FXO outbound number is successfully sent and the polarity
Method	None (default): Once an FXO outbound number is successfully sent, the call will be regarded as answered by the callee and the IPPBX will send 200ok message in the 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 caller
Method	None (default): Once an FXO outbound number is successfully sent, the call will be regarded as answered by the callee and the IPPBX will send 200ok message in the 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.
Method DID Number	None (default): Once an FXO outbound number is successfully sent, the call will be regarded as answered by the callee and the IPPBX will send 200ok message in the 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. Set the DID number for the incoming call through this FXO port. By default it is null.
Answer Detection Method DID Number Caller ID Settings	None (default): Once an FXO outbound number is successfully sent, the call will be regarded as answered by the callee and the IPPBX will send 200ok message in the 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. Set the DID number for the incoming call through this FXO port. By default it is null. Description
Answer Detection Method DID Number Caller ID Settings Caller ID Detection	None (default): Once an FXO outbound number is successfully sent, the call will be regarded as answered by the callee and the IPPBX will send 200ok message in the 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. Set the DID number for the incoming call through this FXO port. By default it is null. Description Set whether to detect the Caller ID of an incoming call. By default it is ticked.
Answer Detection Method DID Number Caller ID Settings Caller ID Detection Polarity Delay	None (default): Once an FXO outbound number is successfully sent, the call will be regarded as answered by the callee and the IPPBX will send 200ok message in the 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. Set the DID number for the incoming call through this FXO port. By default it is null. Description Set whether to detect the Caller ID of an incoming call. By default it is ticked. Set the minimum time interval for the answer polarity detection and the hangup
Answer Detection Method DID Number Caller ID Settings Caller ID Detection Polarity Delay	None (default): Once an FXO outbound number is successfully sent, the call will be regarded as answered by the callee and the IPPBX will send 200ok message in the 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. Set the DID number for the incoming call through this FXO port. By default it is null. Description Set whether to detect the Caller ID of an incoming call. By default it is ticked. Set the minimum time interval for the answer polarity detection and the hangup polarity detection. The default value is 600ms.
Answer Detection Method DID Number Caller ID Settings Caller ID Detection Polarity Delay Enable Debug Caller	None (default): Once an FXO outbound number is successfully sent, the call will be regarded as answered by the callee and the IPPBX will send 200ok message in the 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. Set the DID number for the incoming call through this FXO port. By default it is null. Description Set whether to detect the Caller ID of an incoming call. By default it is ticked. Set the minimum time interval for the answer polarity detection and the hangup polarity detection. The default value is 600ms. Enable the caller number debugging feature for recording and analyzing the caller.
Answer Detection Method DID Number Caller ID Settings Caller ID Detection Polarity Delay Enable Debug Caller ID Set Record Time for	None (default): Once an FXO outbound number is successfully sent, the call will be regarded as answered by the callee and the IPPBX will send 200ok message in the 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. Set the DID number for the incoming call through this FXO port. By default it is null. Description Set whether to detect the Caller ID of an incoming call. By default it is ticked. Set the minimum time interval for the answer polarity detection and the hangup polarity detection. The default value is 600ms. Enable the caller number debugging feature for recording and analyzing the caller.
Answer Detection Method DID Number Caller ID Settings Caller ID Detection Polarity Delay Enable Debug Caller ID Set Record Time for Caller ID	None (default): Once an FXO outbound number is successfully sent, the call will be regarded as answered by the callee and the IPPBX will send 200ok message in the 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. Set the DID number for the incoming call through this FXO port. By default it is null. Description Set whether to detect the Caller ID of an incoming call. By default it is ticked. Set the minimum time interval for the answer polarity detection and the hangup polarity detection. The default value is 600ms. Enable the caller number debugging feature for recording and analyzing the caller.
Answer Detection Method DID Number Caller ID Settings Caller ID Detection Polarity Delay Enable Debug Caller ID Set Record Time for Caller ID	None (default): Once an FXO outbound number is successfully sent, the call will be regarded as answered by the callee and the IPPBX will send 200ok message in the 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. Set the DID number for the incoming call through this FXO port. By default it is null. Description Set whether to detect the Caller ID of an incoming call. By default it is ticked. Set the minimum time interval for the answer polarity detection and the hangup polarity detection. The default value is 600ms. Enable the caller number debugging feature for recording and analyzing the caller. Set the recording timing, after the first ring or ahead of the first ring.



	voice signals be cut. The default value is 25ms which means not to cut.
Enable DTMF Passthrough	Enable the DTMF passthrough during the conversation. By default it is unticked.
DTMF Duration	Set the length of the DTMF tone sent by FXO, calculated by ms. The value range is 20-800 and the default value is 100ms.
DTMF Gap	Set the interval for FXO to send DTMF tones, calculated by ms. The value range is 20-800 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.
Delay Dial Timeout	The maximum time to delay for the dial, calculated by ms. The default value is 500. If you wish to customize, enter the value in the text box directly. The valid range is greater than or equal to '0'.
Echo Cancellation Level	The default value is 64ms.
Tone Country	Two options available: USA (default) and China.
Fast Release upon	Set whether to enable this feature for a trunk. It is disabled by default. If enabled,
Inbound Call Failure	inbound calls will be released quickly as they are failed.

3.4.2.4 DOD

Item	Description
DOD	This feature allows users to set the caller ID and number of associated extensions 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.
Bind Extension	Determine which extensions are selected to bind the DOD number

3.4.2.5 Adapt Caller ID

ltem	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.
	Use regular expression to match.
	(1) ^123\$: "^" starts matching, "\$" ends matching, ^123\$ indicates strict matching
	(2) 123^(123 456)\$: " " means or, ^(123 456)\$ means to match 123 or 456
Match Mode	(3) ^123 456\$: It means to match the string beginning with 123 or the string ending
	with 456
	(4) ^123[4-6]\$: "[]" means to match any of the characters within, [4-6] is equivalent
	to [456], ^123[4-6]\$ means matching 1234, 1235, 1236
	(5) ^123\d\$: "\d" means any number from 0 to 9, ^123\d\$ is equivalent to
	^123[0-9]\$
	(6) ^123\d+\$: "+" means to match one or more characters in front of it,
	^123\d+\$ means matching at least 4 digit strings beginning with 123, such as:



	1234, 12300,, 123456789, etc.
	(7) ^123\d*\$: "*" means to match 0 or more digits in front of it, ^123\d*\$ means
	matching at least 3 digit strings beginning with 123, such as:
	123,1234,12300 ,,123400000, etc.
	(8) ^123: It means any string beginning with 123, such as: 123, 12345, 123abc,
	etc.
	(9) 123\$: It means any string ending with 123, such as: 123, 666123, abc123, etc.
	(10) ^123\d{3}\$: "\d{3}" means to match 3 digits, ^123\d{3}\$ means matching any
	6-digit string beginning with 123
	(11) ^(13[4-9] 147 15[0-2,7-9]): It indicates to match the string beginning with 134,
	135, 136, 137, 138, 139, 147, 150, 151, 152, 157, 158, 159
	(12) .*: "." represents any character, .* means to match any string
Strip	Remove the prefix of an incoming call number.
Prepend	Add the prefix content after removing the prefix.

3.4.3 Call Control

3.4.3.1 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.
	Use regular expression to match.
	(1) ^123\$: "^" starts matching, "\$" ends matching, ^123\$ indicates strict matching
	(2) 123^(123 456)\$: " " means or, ^(123 456)\$ means to match 123 or 456
	(3) ^123 456\$: It means to match the string beginning with 123 or the string ending
	with 456
	(4) ^123[4-6]\$: "[]" means to match any of the characters within, [4-6] is equivalent
	to [456], ^123[4-6]\$ means matching 1234, 1235, 1236
	(5) ^123\d\$: "\d" means any number from 0 to 9, ^123\d\$ is equivalent to
	^123[0-9]\$
DID Pattern	(6) ^123\d+\$: "+" means to match one or more characters in front of it,
	^123\d+\$ means matching at least 4 digit strings beginning with 123, such as:
	1234, 12300,, 123456789, etc.
	(7) ^123\d*\$: "*" means to match 0 or more digits in front of it, ^123\d*\$ means
	matching at least 3 digit strings beginning with 123, such as:
	123,1234,12300 ,,123400000, etc.
	(8) ^123: It means any string beginning with 123, such as: 123, 12345, 123abc,
	etc.
	(9) 123\$: It means any string ending with 123, such as: 123, 666123, abc123, etc.
	(10) ^123\d{3}\$: "\d{3}" means to match 3 digits, ^123\d{3}\$ means matching any



	6-digit string beginning with 123
	(11) ^(13[4-9] 147 15[0-2,7-9]): It indicates to match the string beginning with 134,
	135, 136, 137, 138, 139, 147, 150, 151, 152, 157, 158, 159
	(12) .*: "." represents any character, .* means to match any string
	Set the DID number to a group of consecutive extension numbers. Please fill in the
	DID number range, select "Destination" as "Extension Range" and fill in the
	corresponding extension range. For example, DID range: 5503301-5503305,
	extension range: 1001-1005.
Caller ID Pattern	Same as the item <i>DID Pattern</i> . By default it is null.
	Multiple options available, such as Extensions, IVR Menus, Ring Groups,
Destination	Conference Rooms, Call Center, etc. By default it is null and must be filled in;
	otherwise the configuration will fail to be saved.
Enable Inband	Fuch le the interval DTME data stick, and the default action is False
DTMF Detection	Enable the indand DTMF detection, and the default setting is False.
Enable Fox	Set whether to enable the fax detection. The default setting is False.
	*False: Neither detect Fax tone nor send Fax.
Detection	*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
Fax Destination	message is detected as fax, it is necessary to set a route to the corresponding fax
	destination. By default it is null.
	Local: When an incoming call to the trunk is transferred to the extension and the
	extension is ringing, the IPPBX will send the 183 messages well as the ringback
	tone to the calling party.
Send Ring Tone	Remote: When an incoming call to the trunk is transferred to the extension, the
	IPPBX will transmit the 180/183 message and the ringback tone from the extension
	transparently to the calling party.
	The default setting is <i>Remote</i> .
Enable Time	The feature is disabled by default. Once enabled, it is required to set a destination
Condition	corresponding to this time condition.
	Send the INVITE message with the Alert-Info header field to the called extension to
Distinctive Ring	let it select different ring tone files based on the Alert-Info header field. By default it
Tone	is null.
	Used to adjust the priority of multiple inbound routes. The default value is 100. The
Priority	smaller the value, the higher the routing priority.
	Select the trunks that can use this route. It must be filled in; otherwise the
Member Trunks	configuration will fail to be saved.

3.4.3.2 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.
	(1) ^123\$: "^" starts matching, "\$" ends matching, ^123\$ indicates strict matching
	(2) 123^(123 456)\$: " " means or, ^(123 456)\$ means to match 123 or 456
	(3) ^123 456\$: It means to match the string beginning with 123 or the string ending
	with 456
	(4) ^123[4-6]\$: "[]" means to match any of the characters within, [4-6] is equivalent
	to [456], ^123[4-6]\$ means matching 1234, 1235, 1236
	(5) ^123\d\$: "\d" means any number from 0 to 9, ^123\d\$ is equivalent to
	^123[0-9]\$
	(6) ^123\d+\$: "+" means to match one or more characters in front of it,
	^123\d+\$ means matching at least 4 digit strings beginning with 123, such as:
Dial Patterns	1234, 12300,, 123456789, etc.
	(7) ^123\d*\$: "*" means to match 0 or more digits in front of it, ^123\d*\$ means
	matching at least 3 digit strings beginning with 123, such as:
	123,1234,12300 ,,123400000, etc.
	(8) ^123: It means any string beginning with 123, such as: 123, 12345, 123abc,
	etc.
	(9) 123\$: It means any string ending with 123, such as: 123, 666123, abc123, etc.
	(10) ^123\d{3}\$: "\d{3}" means to match 3 digits, ^123\d{3}\$ means matching any
	6-digit string beginning with 123
	$(11) ^{(13[4-9]]147[15[0-2,7-9])}$: It indicates to match the string beginning with 134,
	135, 136, 137, 138, 139, 147, 150, 151, 152, 157, 158, 159
	(12) .*: "." represents any character, .* means to match any string
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.
Suffix	The digits to be added to the suffix. The default setting is null.
Delay	The delay time before dial, calculated by ms. The default setting is null.
	Add member extensions for controlling the outbound call authority. Only those
Member Extensions	extensions selected have the authority to use this route. It must be filled in;
	otherwise the configuration will fail to be saved.
	Select the trunks that can use this route. It must be filled in; otherwise the
Member Trunks	configuration will fail to be saved.
SIP Code	Set the route to the next trunk or route when receiving a specific SIP cause code.
Novt Bouto	If enabled, when the route is successfully matched and the call is not established
Next Roule	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.
	*None: The call goes out directly
Password	*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 preceded 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 preceded only if the entered PIN is correct.
Rrmemory Hunt	Round robin with memory, remember which trunk was used last time, and then use
	the next available trunk to call out.
Description	Description of the outbound route. By default it is null.
Priority	Used to adjust the priority of multiple outbound routes. Smaller Number means
	higher Priority. The default value is 1000. The smaller the value, the higher the
	routing priority.
Time Condition	Set which time period to use this route. Untick any option by default, which means
	no time limits on outbound calls.

3.4.3.3 Number Attribution

Item	Description
	If a number matches the matching mode, the attribution determination will be made.
	NULL means to disable the determination.
	(1) ^123\$: "^" starts matching, "\$" ends matching, ^123\$ indicates strict matching
	(2) 123^(123 456)\$: " " means or, ^(123 456)\$ means to match 123 or 456
	(3) ^123 456\$: It means to match the string beginning with 123 or the string ending
	with 456
	(4) ^123[4-6]\$: "[]" means to match any of the characters within, [4-6] is equivalent
	to [456], ^123[4-6]\$ means matching 1234, 1235, 1236
	(5) ^123\d\$: "\d" means any number from 0 to 9, ^123\d\$ is equivalent to
	^123[0-9]\$
	(6) ^123\d+\$: "+" means to match one or more characters in front of it,
Number Attribution	^123\d+\$ means matching at least 4 digit strings beginning with 123, such as:
Matching	1234, 12300,, 123456789, etc.
	(7) ^123\d*\$: "*" means to match 0 or more digits in front of it, ^123\d*\$ means
	matching at least 3 digit strings beginning with 123, such as:
	123,1234,12300 ,,123400000, etc.
	(8) ^123: It means any string beginning with 123, such as: 123, 12345, 123abc,
	etc.
	(9) 123\$: It means any string ending with 123, such as: 123, 666123, abc123, etc.
	(10) ^123\d{3}\$: "\d{3}" means to match 3 digits, ^123\d{3}\$ means matching any
	6-digit string beginning with 123
	(11) ^(13[4-9] 147 15[0-2,7-9]): It indicates to match the string beginning with 134,
	135, 136, 137, 138, 139, 147, 150, 151, 152, 157, 158, 159
	(12) .*: "." represents any character, .* means to match any string
Remove Prefix 0	If this feature is enabled, the prefix 0 will be automatically removed from the local
from Local CalleelD	CalleeID.
Add Prefix 0 to	If this feature is enabled, the prefix 0 will be automatically added to the non-local
Non-local CalleelD	CalleeID.
Enable	It is set to False by default.
Export Attribution	Export the attribution information of the PBX.



Info	
Import Attribution	Import the attribution information to the PBX.
Info	

3.4.3.4 Outbound Restrictions

ltem	Description
Name	Name of this user-defined outbound restriction. It must be filled in; otherwise the
	configuration will fail to be saved.
Time Limit	Set a time limit for calls. The default value is 5 minutes.
Number of Calls Limit	Set how many calls are allowed in the limited time. For example, if <i>Time Limit</i> is set
	to 5 minutes and this item is set to 5, it means the designated extension can only
	make 5 calls in 5 minutes. When this extension makes the 6 th call, it will be locked.
Auto Cancel Restriction	The setting of True means the designated extension can make more calls after the
	time limit even if it is locked; the setting of False means this extension, once it is
	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.
Member Extensions	Select the extensions that use this restriction rule. It must be filled in; otherwise the
	configuration will fail to be saved.

3.4.3.5 AutoCLIP

ltem	Description
	AutoCLIP can redirect call to original extension. The IPPBX automatically stores
	information about outgoing calls to the AutoCLIP routing table. When the same
AUIOCLIP	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.
Deserved Keen Times	Set how long each record will be kept in the AutoCLIP list. The default value is 8
кесога кеер пте	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.
Record PSTN Trunk	If enabled, calls that go out through PSTN will be recorded to the AutoCLIP list. By
	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.

3.4.3.6 CC Routes

ltem	Description
CC Routes	When the extension is busy, the call will be recorded. After the callback interval, the
	call will be dialed back.
View CC List	View the list of calls which are recorded upon the extension is busy and need to be
	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.

3.4.3.7 Time Condition

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

3.4.4 Call Features

3.4.4.1 IVR

Basic	Description
Name	User-defined IVR name. It must be filled in; otherwise the configuration will fail to be
	saved.
IVR Number	The extension number that can be routed to this IVR, with the default value range of
	6500~6599 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.
	It is played as the first prompt for entering the IVR menu. The default setting is
Greet Long	Default.
	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 10000ms.
	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. The default value is 4.
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 Outbound	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	
EXIL ACTION	The destination selected to enter after exiting the IVR menu. By default it is null.
Caller ID Name	The destination selected to enter after exiting the IVR menu. By default it is null. The prefix of the caller ID name sent upon the call passing from IVR to an internal
Caller ID Name Prefix	The destination selected to enter after exiting the IVR menu. By default it is null. The prefix of the caller ID name sent upon the call passing from IVR to an internal extension. By default it is null.
Caller ID Name Prefix	The destination selected to enter after exiting the IVR menu. By default it is null. The prefix of the caller ID name sent upon the call passing from IVR to an internal extension. By default it is null. The ring back tone the caller will hear upon the call passing from IVR to an internal
Caller ID Name Prefix Ring Back	The destination selected to enter after exiting the IVR menu. By default it is null. The prefix of the caller ID name sent upon the call passing from IVR to an internal extension. By default it is null. The ring back tone the caller will hear upon the call passing from IVR to an internal extension. The default setting is Default.
Caller ID Name Prefix Ring Back Key Press Event	The destination selected to enter after exiting the IVR menu. By default it is null. The prefix of the caller ID name sent upon the call passing from IVR to an internal extension. By default it is null. The ring back tone the caller will hear upon the call passing from IVR to an internal extension. The default setting is Default. Description

3.4.4.2 Conference Room

Item	Description
Room Name	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
Conference Center	6400~6499 which can be modified in 'PBX->Preference->Extension Preferences'. It
Number	is null by default and must be filled in; otherwise the configuration will fail to be
	saved.
Greeting	The greeting played upon joining this conference room. The default setting is
	Default.
Schedule	Set the start and end time for this conference room.
No Pin	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.



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
Say your name	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
Announce	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
Mute Participant	this conference room. The default setting is False.
	If set to True, all participants could press *0 to invite other users to enter this
Allow Participant to	conference room, press *1 to launch an invitation with confirmation request and
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.
Moderator Member	Specify the moderator extension for this conference. It must be filled in; otherwise
	the configuration will fail to be saved.

3.4.4.3 Call Center Queues

3.4.4.3.1 Basic

ltem	Description
Queue Name	User-defined name of a call center queue. It must be filled in; otherwise the
	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.
N	Set whether a password is needed for dynamic agents to enter this queue. The
NO PIN	default setting is False.
Americk Deserves and	Set the password for dynamic agents to enter this call center queue. It is null by
Agent Password	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.
Ring Strategy	Random: All available agents ring randomly.
	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.



Max Wait Time	The maximum time a caller can wait in a queue before being pulled out, calculated
	by second. 0 means no time limit.
Timeout Action	Select the destination to enter when the call in the queue doesn't be answered in
	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	Approximate played upon the agent answers the call. The default acting is null
Announce	Announcement played upon the agent answers the call. The delaut setting is null.
Agent Potry Time	The interval time between the failed and new calls of an agent. The default value is
Agent Ketry Time	30 seconds.
Wron Un Time	The interval time between the answer of an incoming call and the allocation of a
wrap op nine	new one.
Max Queue Length	Set how many callers are allowed 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.
	Transfer to the destination when the number of calling parties in the queue exceeds
Overflow Action	the upper limit.
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.

3.4.4.3.2 Caller Experience Settings

Item	Description
Music on Hold	Select the music on hold to play when the caller enters this queue. The default
	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.
	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.
	When the calling party enters the queue, the system prompt tone will be heard
Transfer Prompt	periodically. If the agent rings, the prompt tone will be played. For example: "Call
	forwarding, please wait for a moment". The default setting is Default.
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 now long the caller shall wait in the queue. By default it is ticked.
Oct Description	The average call length estimated by users based on actual situations, used to
Call Duration	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	Description



Announcements	
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	Lieu often the eventer present is played. The default value is Op
Frequency	How often the system prompt is played. The default value is os.
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 life as the prompt for agent busy. The default setting is Default.
Agent Busy	Press this key to enter the flow of dialing back upon agent busy. The default value is
Callback Key	2.
	• • • • •

3.4.4.3.3 Caller Experience Settings

Key Events	Description
Option	The keys that might be pressed after the caller hears the system prompt.
Destination	The destination the call will be transferred to after the caller's keypress.

3.4.4.4 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.

3.4.4.5 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.
Ring Strategy	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.
Timeout Destination	Select the destination to enter when agents in this ring group are all not answered.



	By default it is null.
Ring Timeout(s)	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.
Enabled	Set the status of the ring group. The default setting is True.
Alert Info	Set the content of the Alert-Info field. By default it is null.
Ring Back Scheme	The ringback tone sent to the caller. The default setting is us-ring.
CID Name Prefix	The prefix of a caller ID name sent to the extension. By default it is null.
Extension Answer	If set to Yes, the extension user will hear the following prompts upon picking up the
Confirm	call: Press 1 to answer; press 2 to reject. The default setting is No.
Member	Select members for this group. It is null by default and must be filled in; otherwise
	the configuration will fail to be saved.

3.4.4.6 BlackList

Item	Description
Nama	User-defined name of a blacklist. It must be filled in; otherwise the configuration will
Name	fail to be saved.
Matab Mada	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.
BlackList Number	An exact number in the blacklist.
	Fill in following the rule of Regular Expression.
	(1) ^123\$: "^" starts matching, "\$" ends matching, ^123\$ indicates strict matching
	(2) 123^(123 456)\$: " " means or, ^(123 456)\$ means to match 123 or 456
	(3) ^123 456\$: It means to match the string beginning with 123 or the string ending
	(4) A122[4, 6]6; "[1]" means to match any of the observators within [4, 6] is equivalent
	(4) $123[4-0]$; [] means to matching 1224, 1225, 1226
	(5) A123/d¢: "/d" means any number from 0 to 0 A123/d¢ is equivalent to
	(6) ^123\d+\$: "+" means to match one or more characters in front of it
	^123\d+\$ means matching at least 4 digit strings beginning with 123 such as:
Regular Expression	1234, 12300,, 123456789, etc.
	(7) ^123\d*\$: "*" means to match 0 or more digits in front of it, ^123\d*\$ means
	matching at least 3 digit strings beginning with 123, such as:
	123,1234,12300 ,,123400000, etc.
	(8) ^123: It means any string beginning with 123, such as: 123, 12345, 123abc,
	etc.
	(9) 123\$: It means any string ending with 123, such as: 123, 666123, abc123, etc.
	(10) ^123\d{3}\$: "\d{3}" means to match 3 digits, ^123\d{3}\$ means matching any
	6-digit string beginning with 123
	(11) ^(13[4-9] 147 15[0-2,7-9]): It indicates to match the string beginning with 134,
	135, 136, 137, 138, 139, 147, 150, 151, 152, 157, 158, 159
	(12) .*: "." represents any character, .* means to match any string



Enabled Set whether to enable the black list feature. By default it is True.

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.

3.4.4.7 PIN Numbers

3.4.4.8 Speed Dial

ltem	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.

3.4.4.9 Paging

Item	Description
Name	User-defined name of a call paging, 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 paging. 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 paging. 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.

3.4.4.10 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.

3.4.4.11 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

3.4.4.12 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.

3.4.4.13 Emergencies

ltem	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.
	When an emergency number is dialed, the system will make a notification call to the
Announce	selected extension with a prompt. Multiple extensions are allowed. The default
	setting is None.

3.4.5 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
One Touch Record	The feature code that is used to start call recording. The default code is *2.
Voicemail	Description
Oha ala Maia ama il	The feature code that is used to check the voicemail. Press it and enter your
Check Voicemali	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 default
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
Dlind Transfer	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. The default code is *1.
	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 call
	successfully. Press # to cancel. The default code is *4.
Attended Transfer	In negotiating a transfer, if the destination is not specified, the call will be transferred
Timeout	back after the set time. The default value is 15 seconds.
Intercept	Description
Group Intercent	By pressing this feature code, an extension can answer the incoming call to another
Group intercept	extension in the same intercept group. The default code is *8.
Extension Intercent	By dialing this feature code plus an extension number, users can answer incoming
Extension intercept	calls to this extension. The default code is **.
Intercom	Description
Intercom	By dialing this feature code plus an extension number, users can start an intercom
	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.
Park Extension	By dialing this feature code, Extension A will be parked at another extension



	number. Other extensions can dial this extension number to resume the
	conversation with Extension A. The default feature code is 5900.
Park Extension	The range of extensions where the call can be parked at. The default setting is
Start/Park Extension	5901~5999.
End	
Park Timeout	The maximum time for an extension allowed to park. The default value is 90 seconds.
Call Forwarding	Description
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
Calls	to this designated number. The default feature code is *72.
Disable Forward All	Dial this feature code to disable forwarding of all calls. The default feature code is
Calls	*720.
Toggle Forward All	Dial this feature code to toggle forwarding of all calls. The default feature code is
Calls	*73.
Enable Forward	By dialing this feature code, an extension forwards all calls to its voicemail when
When Rusy	busy; by dialing this feature code plus a designated number, an extension forwards
when busy	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.
	By dialing this feature code, an extension forwards all calls to its voicemail when no
Enable Forward No	answer; by dialing this feature code plus a designated number, an extension
Answer	forwards all calls to this designated number when no answer. The default feature
	code is *75.
Disable Forward No	Dial this feature code to disable call forwarding when no answer. The default feature
Answer	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	Dial this feature code to toggle the DND state. The default feature code is *77
Disturb	
Call Monitor	Description
	Dial this feature code plus an extension number to monitor the extension. If this
Listen	feature will work or not is related to the setting of monitor authority. The default
	value is *90.
	Dial this feature code plus an extension number to monitor the extension and
Whisper	whisper to it. If this feature will work or not is related to the setting of monitor
	authority. The default value is *91.
Bargo in	Dial this feature code plus an extension number to enter the call of this extension for
Barge-in	



	authority. The default value is *92.
F amilia 11an ann	By dialing this feature code in a call, users can disconnect this call forcibly. The
Forcible Hangup	default feature code is *6.
	Dial this feature code plus an extension number to monitor the conversation from
	the designated extension and the monitor cannot hear the voice from the other end.
Listen Local	The default feature code is *93.
	Note: To monitor an extension, you need to configure the Monitor Settings for this
	extension first.
	Dial this feature code plus an extension number to monitor the conversation from
	the remote end of the designated extension and the monitor cannot hear the voice
Listen Remote	from the local designated extension. The default feature code is *94.
	Note: To monitor an extension, you need to configure the Monitor Settings for this
	extension first.
Agent	Description
	By dialing this feature code plus a queue number, the extension can follow the
Agent Login/Logout	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 add an extension to the designated queue or delete it from the queue.
Agent Status ID	
	The default feature code is *23.
BlackList	The default feature code is *23. Description
BlackList	The default feature code is *23. Description By dialing this feature code, the extension can follow the prompt to add a caller ld to
BlackList Blacklist Add	The default feature code is *23. Description By dialing this feature code, the extension can follow the prompt to add a caller ld to the blacklist dynamically. The default feature code is *40.
BlackList Blacklist Add	The default feature code is *23. Description By dialing this feature code, the extension can follow the prompt to add a caller ld to the blacklist dynamically. The default feature code is *40. By dialing this feature code, the extension can follow the prompt to remove a caller
BlackList Blacklist Add Blacklist Remove	The default feature code is *23. Description By dialing this feature code, the extension can follow the prompt to add a caller ld to the blacklist dynamically. The default feature code is *40. By dialing this feature code, the extension can follow the prompt to remove a caller ld from the blacklist dynamically. The default feature code is *41.
BlackList Blacklist Add Blacklist Remove Blacklist Add Last	The default feature code is *23. Description By dialing this feature code, the extension can follow the prompt to add a caller ld to the blacklist dynamically. The default feature code is *40. By dialing this feature code, the extension can follow the prompt to remove a caller Id from the blacklist dynamically. The default feature code is *41. By dialing this feature code, the extension will add the latest call number to the
BlackList Blacklist Add Blacklist Remove Blacklist Add Last Call	The default feature code is *23. Description By dialing this feature code, the extension can follow the prompt to add a caller ld to the blacklist dynamically. The default feature code is *40. By dialing this feature code, the extension can follow the prompt to remove a caller ld from the blacklist dynamically. The default feature code is *41. By dialing this feature code, the extension will add the latest call number to the blacklist. The default feature code is *42.
BlackList Blacklist Add Blacklist Remove Blacklist Add Last Call Query IP	The default feature code is *23. Description By dialing this feature code, the extension can follow the prompt to add a caller ld to the blacklist dynamically. The default feature code is *40. By dialing this feature code, the extension can follow the prompt to remove a caller ld from the blacklist dynamically. The default feature code is *41. By dialing this feature code, the extension will add the latest call number to the blacklist. The default feature code is *42. Description
BlackList Blacklist Add Blacklist Remove Blacklist Add Last Call Query IP	The default feature code is *23. Description By dialing this feature code, the extension can follow the prompt to add a caller ld to the blacklist dynamically. The default feature code is *40. By dialing this feature code, the extension can follow the prompt to remove a caller ld from the blacklist dynamically. The default feature code is *41. By dialing this feature code, the extension will add the latest call number to the blacklist. The default feature code is *42. Description By dialing this feature code, the FXS extension can query such information as the
BlackList Blacklist Add Blacklist Remove Blacklist Add Last Call Query IP Query LAN IP	The default feature code is *23. Description By dialing this feature code, the extension can follow the prompt to add a caller ld to the blacklist dynamically. The default feature code is *40. By dialing this feature code, the extension can follow the prompt to remove a caller ld from the blacklist dynamically. The default feature code is *41. By dialing this feature code, the extension will add the latest call number to the blacklist. The default feature code is *42. Description By dialing this feature code, the FXS extension can query such information as the IP address of LAN. The default feature code is *60.
BlackList Blacklist Add Blacklist Remove Blacklist Add Last Call Query IP Query LAN IP	The default feature code is *23. Description By dialing this feature code, the extension can follow the prompt to add a caller ld to the blacklist dynamically. The default feature code is *40. By dialing this feature code, the extension can follow the prompt to remove a caller Id from the blacklist dynamically. The default feature code is *41. By dialing this feature code, the extension will add the latest call number to the blacklist. The default feature code is *42. Description By dialing this feature code, the FXS extension can query such information as the IP address of LAN. The default feature code is *60. By dialing this feature code, the FXS extension can query such information as the
BlackList Blacklist Add Blacklist Remove Blacklist Add Last Call Query IP Query LAN IP Query WAN IP	The default feature code is *23. Description By dialing this feature code, the extension can follow the prompt to add a caller ld to the blacklist dynamically. The default feature code is *40. By dialing this feature code, the extension can follow the prompt to remove a caller ld from the blacklist dynamically. The default feature code is *41. By dialing this feature code, the extension will add the latest call number to the blacklist. The default feature code is *42. Description By dialing this feature code, the FXS extension can query such information as the IP address of LAN. The default feature code is *60. By dialing this feature code, the FXS extension can query such information as the IP address of WAN. The default feature code is *61.
BlackList Blacklist Add Blacklist Remove Blacklist Add Last Call Query IP Query LAN IP Query WAN IP CC Routes	The default feature code is *23. Description By dialing this feature code, the extension can follow the prompt to add a caller ld to the blacklist dynamically. The default feature code is *40. By dialing this feature code, the extension can follow the prompt to remove a caller Id from the blacklist dynamically. The default feature code is *41. By dialing this feature code, the extension will add the latest call number to the blacklist. The default feature code is *42. Description By dialing this feature code, the FXS extension can query such information as the IP address of LAN. The default feature code is *60. By dialing this feature code, the FXS extension can query such information as the IP address of WAN. The default feature code is *61.
BlackList Blacklist Add Blacklist Remove Blacklist Add Last Call Query IP Query LAN IP Query WAN IP CC Routes	The default feature code is *23. Description By dialing this feature code, the extension can follow the prompt to add a caller ld to the blacklist dynamically. The default feature code is *40. By dialing this feature code, the extension can follow the prompt to remove a caller ld from the blacklist dynamically. The default feature code is *41. By dialing this feature code, the extension will add the latest call number to the blacklist. The default feature code is *42. Description By dialing this feature code, the FXS extension can query such information as the IP address of LAN. The default feature code is *60. By dialing this feature code, the FXS extension can query such information as the IP address of WAN. The default feature code is *61. Description When the extension is busy, dial this function key to implement the callback feature.
BlackList Blacklist Add Blacklist Remove Blacklist Add Last Call Query IP Query LAN IP Query WAN IP CC Routes CC Routes	The default feature code is *23. Description By dialing this feature code, the extension can follow the prompt to add a caller ld to the blacklist dynamically. The default feature code is *40. By dialing this feature code, the extension can follow the prompt to remove a caller ld from the blacklist dynamically. The default feature code is *41. By dialing this feature code, the extension will add the latest call number to the blacklist. The default feature code is *42. Description By dialing this feature code, the FXS extension can query such information as the IP address of LAN. The default feature code is *60. By dialing this feature code, the FXS extension can query such information as the IP address of WAN. The default feature code is *61. Description When the extension is busy, dial this function key to implement the callback feature. The default feature code is *7.
BlackList Blacklist Add Blacklist Remove Blacklist Add Last Call Query IP Query LAN IP Query WAN IP CC Routes CC Routes Conference	The default feature code is *23. Description By dialing this feature code, the extension can follow the prompt to add a caller ld to the blacklist dynamically. The default feature code is *40. By dialing this feature code, the extension can follow the prompt to remove a caller ld from the blacklist dynamically. The default feature code is *41. By dialing this feature code, the extension will add the latest call number to the blacklist. The default feature code is *42. Description By dialing this feature code, the FXS extension can query such information as the IP address of LAN. The default feature code is *60. By dialing this feature code, the FXS extension can query such information as the IP address of WAN. The default feature code is *61. Description When the extension is busy, dial this function key to implement the callback feature. The default feature code is *7. Description
BlackList Blacklist Add Blacklist Remove Blacklist Add Last Call Query IP Query LAN IP Query WAN IP CC Routes CC Routes CC Routes Conference Multiparty	The default feature code is *23.

3.4.6 Voice Prompts

3.4.6.1 Voice Prompts

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

3.4.6.2 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	Three options are available: English (default), Chinese and Turkish.

3.4.6.3 Music on Hold

Item	Description
Catalogua	Select a catalogue of music on hold or press the following button + to create a new
Catalogue	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.

3.4.6.4 Custom Prompt

Item	Description
	The file to be uploaded should be: 8000Hz sampling rate, 16bit, single channel, wav
υριοάά	format.
	Define the name of a wav file, select an extension to record, then click the
Record	RECORD button. When the extension rings, pick up the call and say what you want
	to record.

3.4.7 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.
	If this option is ticked, you will hear the prompt: The phone you dial is unavailable
message	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
Duran Duranut	Select the greeting that will be played when the extension is busy. The default
Busy Prompt	setting is Default.
Unavailable Drammé	Select the greeting that will be played when the extension is unavailable. The
Unavailable Prompt	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 Timo	
Annvar mine	content of this message. By default it is unticked.
	content of this message. By default it is unticked. Click to view the voicemail configuration of all extensions. Then click 'Messages'

3.4.8 Record Settings

ltem	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	The prompt that will be played to both the caller and the callee before the recording
Recorded Prompt	of outbound/inbound calls. The default setting is None.
Descend Ofert	Set the timing to start recording, two options available: After Answer and After Ring.
Record Start	The default setting is After Answer.
Decent Made	Set the recording mode, two options available: Recording on One Side and
Recora Mode	Recording on Both Sides. The default setting is Recording on One Side.
	Set the recording direction, three options available: Incoming Recording, Outgoing
Record Direction	Recording, Incoming and Outgoing Recording. The default setting is Incoming
	Recording.
	Set the sampling frequency of the recording, 8000 or 16000. The default value is
Record Sample Rate	8000.
Recording File	
Format	Set the recording file format, WAV or MP3. The default format is WAV.
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.

3.4.9 Preference

ltem	Description
Mars Drug (in 1	The maximum time length permitted for a call. The default value is 6000 seconds. 0
Max Duration	means no limit.
	The Caller ID that will be displayed on the recipient's phone. There options
	available: Auto, Transferor(default), Transferee.
	Example: 1002calling 1003, 1003transfers this call to 1004.
Attended Transfer	* Transferor: Show 1003 on the extension 1004.
Caller ID	* Transferee: Show 1002 on the extension 1004.
	* Auto: When 1003istransferring the call to 1004, the displayed number is 1003;
	when 1003 hangs up the call after its successful transfer and 1002 is talking to 1004,
	the displayed number is 1002.
Extension	
Preferences	Description
Preferences User Extensions	Description The number range of user extensions. By default it is 1000~5899.
Preferences User Extensions Ring Group	Description The number range of user extensions. By default it is 1000~5899.
Preferences User Extensions Ring Group Extensions	Description The number range of user extensions. By default it is 1000~5899. The number range of user extensions in a ring group. By default it is 6200~6299.
Preferences User Extensions Ring Group Extensions Paging Group	Description The number range of user extensions. By default it is 1000~5899. The number range of user extensions in a ring group. By default it is 6200~6299.
Preferences User Extensions Ring Group Extensions Paging Group Extensions	Description The number range of user extensions. By default it is 1000~5899. The number range of user extensions in a ring group. By default it is 6200~6299. The number range of user extensions in a paging group. By default it is 6300~6399.
Preferences User Extensions Ring Group Extensions Paging Group Extensions Conference	Description The number range of user extensions. By default it is 1000~5899. The number range of user extensions in a ring group. By default it is 6200~6299. The number range of user extensions in a paging group. By default it is 6300~6399. The number range of user extensions in a paging group. By default it is 6300~6399. The number range of user extensions in a conference room. By default it is
PreferencesUser ExtensionsRing GroupExtensionsPaging GroupExtensionsConferenceExtensions	Description The number range of user extensions. By default it is 1000~5899. The number range of user extensions in a ring group. By default it is 6200~6299. The number range of user extensions in a paging group. By default it is 6300~6399. The number range of user extensions in a conference room. By default it is 6400~6499.
PreferencesUser ExtensionsRing GroupExtensionsPaging GroupExtensionsConferenceExtensionsIVR Extensions	DescriptionThe number range of user extensions. By default it is 1000~5899.The number range of user extensions in a ring group. By default it is 6200~6299.The number range of user extensions in a paging group. By default it is 6300~6399.The number range of user extensions in a conference room. By default it is 6400~6499.The number range of IVR extensions. By default it is 6500~6599.
Preferences User Extensions Ring Group Extensions Paging Group Extensions Conference Extensions IVR Extensions	DescriptionThe number range of user extensions. By default it is 1000~5899.The number range of user extensions in a ring group. By default it is 6200~6299.The number range of user extensions in a paging group. By default it is 6300~6399.The number range of user extensions in a conference room. By default it is 6400~6499.The number range of IVR extensions. By default it is 6500~6599.The number range of user extensions in a call center queue. By default it is

3.4.10 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.
Coopier Timesut	Set the maximum refresh interval for the session timer. The default value is 1800
Session Timeout	seconds.
11	The content of the User-Agent field which is defined by users. The default setting is
UserAgent	UC2018.
RTP Range	Set the range of the RTP port used by the PBX. The default setting is 16384-32768.
RTP AutoFix Timing	RTP AutoFix Timing. The default setting is True.
Nat Options Ping	When it is set to True by default, the PBX will send the options message to all the



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	terminals which register after NAT to keep the active connection to the terminal.
	In order to guarantee the communications Qos, the eight identification bytes in the
DSCP Enabled	IP header of the data packet are encoded to classify the service classes and
	differentiate the service priorities.
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
51P 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.
100rel Enable	Add Supported:100rel to the INVITE message.
	If this option is ticked, the SIP trunk will support UDP, TCP, TLS at the same time. It
Enable ILS	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.
	The certificate needed in case the PBX works as the client. It will be renamed to
TLS Certificate	agent.pem after it is uploaded.
TLS Certificate Extension Profile	agent.pem after it is uploaded.
TLS Certificate Extension Profile Setting	agent.pem after it is uploaded. Description
TLS Certificate Extension Profile Setting	agent.pem after it is uploaded. Description By ticking this option, you can create SIP extensions on the LAN port. It is ticked by
TLS Certificate Extension Profile Setting Enable Internal_LAN	agent.pem after it is uploaded. Description By ticking this option, you can create SIP extensions on the LAN port. It is ticked by default.
TLS Certificate Extension Profile Setting Enable Internal_LAN Enable	agent.pem after it is uploaded. Description By ticking this option, you can create SIP extensions on the LAN port. It is ticked by default. By ticking this option, you can create SIP extensions on the WAN port. It appears
TLS Certificate Extension Profile Setting Enable Internal_LAN Enable Internal_WAN	agent.pem after it is uploaded. Description By ticking this option, you can create SIP extensions on the LAN port. It is ticked by default. By ticking this option, you can create SIP extensions on the WAN port. It appears only when the network mode is set to Double or Route. It is ticked by default.
TLS Certificate Extension Profile Setting Enable Internal_LAN Enable Internal_WAN SIP IP	agent.pem after it is uploaded. Description By ticking this option, you can create SIP extensions on the LAN port. It is ticked by default. By ticking this option, you can create SIP extensions on the WAN port. It appears only 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
TLS Certificate Extension Profile Setting Enable Internal_LAN Enable Internal_WAN SIP IP	agent.pem after it is uploaded. Description By ticking this option, you can create SIP extensions on the LAN port. It is ticked by default. By ticking this option, you can create SIP extensions on the WAN port. It appears only 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 address of this network port.
TLS Certificate Extension Profile Setting Enable Internal_LAN Enable Internal_WAN SIP IP SIP Port	agent.pem after it is uploaded. Description By ticking this option, you can create SIP extensions on the LAN port. It is ticked by default. By ticking this option, you can create SIP extensions on the WAN port. It appears only 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 address of this network port. The port to be monitored by using the SIP protocol. By default it is 5060.
TLS Certificate Extension Profile Setting Enable Internal_LAN Enable Internal_WAN SIP IP SIP Port Public SIP IP	agent.pem after it is uploaded. Description By ticking this option, you can create SIP extensions on the LAN port. It is ticked by default. By ticking this option, you can create SIP extensions on the WAN port. It appears only 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 address of this network port. The port to be monitored by using the SIP protocol. By default it is 5060. The SIP IP used for NAT traversal when the PBX stays in the LAN.
TLS Certificate Extension Profile Setting Enable Internal_LAN Enable Internal_WAN SIP IP SIP Port Public SIP IP Public RTP IP	agent.pem after it is uploaded. Description By ticking this option, you can create SIP extensions on the LAN port. It is ticked by default. By ticking this option, you can create SIP extensions on the WAN port. It appears only 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 address of this network port. The port to be monitored by using the SIP protocol. By default it is 5060. The SIP IP used for NAT traversal when the PBX stays in the LAN.
TLS Certificate Extension Profile Setting Enable Internal_LAN Enable Internal_WAN SIP IP SIP Port Public SIP IP Public RTP IP Enable TLS	agent.pem after it is uploaded. Description By ticking this option, you can create SIP extensions on the LAN port. It is ticked by default. By ticking this option, you can create SIP extensions on the WAN port. It appears only 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 address of this network port. The port to be monitored by using the SIP protocol. By default it is 5060. The SIP IP used for NAT traversal when the PBX stays in the LAN. If this option is ticked, the SIP extension will support UDP, TCP, TLS at the same
TLS Certificate Extension Profile Setting Enable Internal_LAN Enable Internal_WAN SIP IP SIP Port Public SIP IP Public RTP IP Enable TLS	agent.pem after it is uploaded. Description By ticking this option, you can create SIP extensions on the LAN port. It is ticked by default. By ticking this option, you can create SIP extensions on the WAN port. It appears only 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 address of this network port. The port to be monitored by using the SIP protocol. By default it is 5060. The SIP IP used for NAT traversal when the PBX stays in the LAN. The RTP IP used for NAT traversal when the PBX stays in the LAN. If this option is ticked, the SIP extension will support UDP, TCP, TLS at the same time. It is unticked by default.
TLS Certificate Extension Profile Setting Enable Internal_LAN Enable Internal_WAN SIP IP SIP Port Public SIP IP Public RTP IP Enable TLS TLS Only	agent.pem after it is uploaded. Description By ticking this option, you can create SIP extensions on the LAN port. It is ticked by default. By ticking this option, you can create SIP extensions on the WAN port. It appears only 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 address of this network port. The port to be monitored by using the SIP protocol. By default it is 5060. The SIP IP used for NAT traversal when the PBX stays in the LAN. If this option is ticked, the SIP extension will support UDP, TCP, TLS at the same time. It is unticked by default. TLS If this option is ticked, the calls on this SIP extension will only support TLS.
TLS Certificate Extension Profile Setting Enable Internal_LAN Enable Internal_WAN SIP IP SIP Port Public SIP IP Public RTP IP Enable TLS TLS Only TLS SIP Port	agent.pem after it is uploaded. Description By ticking this option, you can create SIP extensions on the LAN port. It is ticked by default. By ticking this option, you can create SIP extensions on the WAN port. It appears only 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 address of this network port. The port to be monitored by using the SIP protocol. By default it is 5060. The SIP IP used for NAT traversal when the PBX stays in the LAN. If this option is ticked, the SIP extension will support UDP, TCP, TLS at the same time. It is unticked by default. TLS If this option is ticked, the calls on this SIP extension will only support TLS. The default value is 5061
TLS Certificate Extension Profile Setting Enable Internal_LAN Enable Internal_WAN SIP IP SIP Port Public SIP IP Public RTP IP Enable TLS TLS Only TLS Version	agent.pem after it is uploaded. Description By ticking this option, you can create SIP extensions on the LAN port. It is ticked by default. By ticking this option, you can create SIP extensions on the WAN port. It appears only 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 address of this network port. The port to be monitored by using the SIP protocol. By default it is 5060. The SIP IP used for NAT traversal when the PBX stays in the LAN. If this option is ticked, the SIP extension will support UDP, TCP, TLS at the same time. It is unticked by default. TLS If this option is ticked, the calls on this SIP extension will only support TLS. The TLS version used by the SIP extension. The default value is tlsv1.
TLS Certificate Extension Profile Setting Enable Internal_LAN Enable Internal_WAN SIP IP SIP Port Public SIP IP Public RTP IP Enable TLS TLS Only TLS Version Create CA	agent.pem after it is uploaded. Description By ticking this option, you can create SIP extensions on the LAN port. It is ticked by default. By ticking this option, you can create SIP extensions on the WAN port. It appears only 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 address of this network port. The port to be monitored by using the SIP protocol. By default it is 5060. The SIP IP used for NAT traversal when the PBX stays in the LAN. If this option is ticked, the SIP extension will support UDP, TCP, TLS at the same time. It is unticked by default. TLS If this option is ticked, the calls on this SIP extension will only support TLS. The default value is 5061 The TLS version used by the SIP extension. The default value is tlsv1.
TLS Certificate Extension Profile Setting Enable Internal_LAN Enable Internal_WAN SIP IP SIP Port Public SIP IP Public RTP IP Enable TLS TLS Only TLS Version Create CA Certificate	agent.pem after it is uploaded. Description By ticking this option, you can create SIP extensions on the LAN port. It is ticked by default. By ticking this option, you can create SIP extensions on the WAN port. It appears only 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 address of this network port. The port to be monitored by using the SIP protocol. By default it is 5060. The SIP IP used for NAT traversal when the PBX stays in the LAN. If this option is ticked, the SIP extension will support UDP, TCP, TLS at the same time. It is unticked by default. TLS If this option is ticked, the calls on this SIP extension will only support TLS. The default value is 5061 The TLS version used by the SIP extension. The default value is tlsv1. When the PBX works as the Server, the CA certificate is used to generate Client and Server certificates, with the filename cafile.pem.
TLS Certificate Extension Profile Setting Enable Internal_LAN Enable Internal_WAN SIP IP SIP Port Public SIP IP Public RTP IP Enable TLS TLS Only TLS Version Create CA Certificate Create Server	agent.pem after it is uploaded. Description By ticking this option, you can create SIP extensions on the LAN port. It is ticked by default. By ticking this option, you can create SIP extensions on the WAN port. It appears only 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 address of this network port. The port to be monitored by using the SIP protocol. By default it is 5060. The SIP IP used for NAT traversal when the PBX stays in the LAN. If this option is ticked, the SIP extension will support UDP, TCP, TLS at the same time. It is unticked by default. TLS If this option is ticked, the calls on this SIP extension will only support TLS. The default value is 5061 The TLS version used by the SIP extension. The default value is tlsv1. When the PBX works as the Server, the CA certificate is used to generate Client and Server certificates, with the filename cafile.pem. It is a certificate needed when the PBX works as the Server, with the filename



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.

3.4.11 Auto Provision

Item	Description
Auto Provision	This feature is to generate a configuration file of the IP phone. The phone obtains
	the configuration file address by sending a paging packet, and downloads the
	configuration file automatically.
Manufacturer	Select the IP phone manufacturer that generates the phone book.
Namo	When the type is Local Phone Book, it cannot be modified; when the type is Remote
Name	Phone Book, the phone book can be obtained by this name.
Tupo	Local Phone Book: IP phone is saved locally on the phone; Remote Phone Book: IP
Туре	phone can be accessed by URL.
Diagon Colont o Filo	Upload the phone book to be imported. Different manufacturers need to download
Please Select a File	different templates.
Tomplata	Select a pre-configured template to automatically fill in such information as features,
rempiate	preferences, etc.
Model	IP phone model.
Account	Information required for the IP phone to register with the SIP server.
Line Key Setting	Set the shortcut keys of the IP phone.
	Call Waiting: When the phone is in a call and another extension calls it, it will enter
	the waiting state if this feature enabled, or it will hang up the call if this feature
	disabled.
	Auto Answer: The IP phone automatically answers after ringing.
	Voicemail: When enabled, press the voicemail button on the phone to automatically
Fosturos	send *97.
reatures	Local Phone Book: When enabled, the configured phone book is automatically
	downloaded to the IP phone's address book.
	Key As Send: To determine if the IP phone directly calls out when pressing the #
	key.
	Remote Phone Book: You can directly view the phone book on the server by using
	this feature.
CODEC	Set the codec supported by the IP phone.
	Language: Set the display language of the IP phone.
Preference	Admin Password: Set the login password for the IP phone.
	NTP Server: Set the NTP server address of the IP phone.
	Time Display Format: Set the time format for the IP phone.
	Date Display Format: Set the date format for the IP phone.
	Time Zone: Set the time zone for the IP phone.



3.4.12 Phone Book

Item	Description
Phone Book	This address book is only applicable for UCTALK APP, the access port is 10600,
	and the uploaded file must be named contacts.txt.
Choose a File	Select the address book to upload.
Phone Book	Download a template of the address book.
Template Download	

3.5 System

3.5.1 Network Settings

3.5.1.1 Basic Settings

Item	Description
Hostname	The default value is IPPBX.
	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.
Default Interface	When the IPPBX is in the Dual network mode, users should make an 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 OPENVPN

ltem	Description
Enable OpenVPN	Choose whether to enable VPN.
Server Address	Enter the server address of OpenVPN.
Server Port	Enter the server port of OpenVPN. The default value is 1194.
Protocol	Select the protocol type. The client and server must use the same setting.
	Select the network device. The client and server must use the same setting.
Device Mode	TUN: A TUN device is a virtual point-to-point IP link;
	TAP: A TAP device is a virtual Ethernet adapter.
Username	Specify the username.



Password	Specify the password.
Encryption	Select the encryption method. The client and server must use the same setting.
Compression	Enable or disable compression for data stream. The client and server must use the same setting.
CA Certificate	Upload a CA certificate
Certificate	Upload a client certificate
Кеу	Upload a client key.
TLS Authentication	Enable or disable TLS authentication. If enabled, please upload a TA key.

3.5.1.3 Static Routes

ltem	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.
	By default it is unticked. Add at least one rule that allows TCP to connect to
DIOP AII	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.
	The allowed number of packets received within the 'time interval'. If the amount of
Number of IP	data from a certain IP packet within the 'time interval' exceeds this threshold, the IP
Packets	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.

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.
Enable Telnet	Set whether to enable Telnet and the corresponding port. By default it is ticked and
	the port is 23.
Enable FTP	Set whether to enable FTP and the corresponding port. By default it is ticked and
	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 summer suct as she 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.
System Time	Set the system time manually.
Enable NTP Server	Tick this option to provide the NTP service for other devices.

3.5.4 Storage

3.5.4.1 Preference

3.5.4.1.1 Storage Locations

ltem	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).
Recordings	A location to store your recordings. It is Local Flash by default. If you 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).
OTR	A location to store your One Touch Recordings. It is Local Flash by default. If you
	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).
Logs	A location to store your logs. It is Local Flash by default. If you 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).

3.5.4.1.2 Storage Devices

ltem	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

ltem	Description
Max Number of CDR	Set the maximum number of CDR that should be retained. The default value is 10
	and the value 0 means no limit. If the threshold is reached, the oldest CDR will be
	deleted.
CDR Preservation Duration	Set the maximum number of days when CDR should be retained. The default value
	is 0 which means no limitation. If the threshold is reached, the oldest CDR will be
	deleted.
Max Number of	Set the maximum number of conference records allowed to save. If it is exceeded,
Conference	the oldest record will be deleted. The default value is 5000, and 0 means no
Sessions	limitation.

3.5.4.2.2 Voicemail and One Touch Recording Auto Cleanup

ltem	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.
	Set the maximum number of minutes for voicemail and one touch recording files to
Files Preservation Duration	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	Set the maximum storage percentage of recording files for the device. The default
Device	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

ltem	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.
FTP Address	FTP server address, format: xxx:xxx:xxx or xxx:xxx:xxx:xxx:xxx. It is null by 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
Upload Time	Real Time (default): upload every 5 minutes 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.
Confirm Password	Confirm your password.
Language	Select a language, Chinese or English.
Groups	Determine the user's authority
Enabled	Set the status of this account.



3.5.5.2 User Group

Item	Description
Admin	By default an administrator group has the authority to check status, call records and
	set recordings, as well as PBX, system and all functional modules. The exact
	authority of corresponding functional modules can be set by requirements.
Public	By default a public group only has the authority to check status and call records, as
	well as play and query recordings. The exact authority of corresponding functional
	modules can be set by requirements.
User	By default a user group only has the authority to check status and call records, as
	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.
CDU Overland	If this option is ticked, the event will be reported when the CPU reaches the
CPU Overload	threshold. By default it is unticked and the threshold is 90%.
	If this option is ticked, the event will be reported when the local storage space
Local Storage Full	reaches the threshold. By default it is unticked and the threshold is 90%.
	If this option is ticked, the event will be reported when the memory usage reaches
Memory Overload	the threshold. By default it is unticked and the threshold is 90%.
	If this option is ticked, the event will be reported when the USB storage space
USD Storage Full	reaches the threshold. By default it is unticked and the threshold is 90%.
Notwork Attacked	If this option is ticked, the event will be reported when the network is attacked. By
Network Attacked	default it is unticked.
Notwork Follows	If this option is ticked, the event will be reported when the network connection fails.
Network Failure	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.
Script Monitor	If this option is checked, the event will be reported when there is a problem with the
	API. The default setting is unchecked.

3.5.6.2 PBX Settings

ltem	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

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

ltem	Description
Centralized Manage	Tick Enable to start centralized management. It is unticked by default.
Centralized	Centralized management protocol. The default setting is SNMP.
Management	



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: 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 Factory Reset

Item	Description
Factory 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

ltem	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

ltem	Description
Ethernet Capture	Cat filler conditions for natural conture, such as CID only, both CID and DTD atc
ΤοοΙ	Set filter conditions for network capture, such as SIP only, both SIP and RTP, etc.
Port Monitoring Tool	Designate an FXO or FXS port for recording, as well as designate an FXO port to
	pick up or hang up the call.
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

ltem	Description
Serial Number	Device serial number
Max Sessions	Concurrent number. The default value for UC200 is 15, for UC500 is 30, for
	UC500H is 30.
Max extensions	The number of extensions. The default value for UC200 is60, for UC500 is 150, for
	UC500H is 150.
Features	The features supported by this device,

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

ltem	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/UC500H?

There are two ways to get the IP address:

- 1) Long press the Reset button on UC200/UC500/UC500Hto 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 <u>Function Key</u> for more details (excluding UC500H).

Q2. Which RTP codecs are supported by UC200/UC500/UC500H?

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: \geq 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, PCM16wav files (8kHz single track).

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

To register a SIP extension to UC200 via either the LAN or the WAN port, just use the IP address of the LAN or WAN port as the address of the registrar.

Q9. Which are the monitoring ports respectively for SIP extensions and SIP trunks on UC200/UC500/UC500H?

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.

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