NEXO 450/8100/16300 IP PBX

IP PBX Administrator Manual

Version 1.2

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1. Introduction

1.1 Overview

NEXO Series PBX—IP PBX for Small Business/Home Office

NEXO 450/8100/16300 IP PBX is a standalone embedded hybrid PBX for small businesses and remote branch offices of larger organizations. It is designed to bring enterprise-grade Unified Communications and Security Protection in an easy-to-manage fashion.

• Alert • Firewalls • Blacklist • HTTPS Call Back Integrated built-in packet • capture tools Call Detail Records(CDR) • Interactive Voice Response (IVR) Call Forward, Call Parking Intercom/Zone Prompt Music On Hold • Call Pickup Call Recording • Open VPN Call Routing Paging/Intercom Call transfer Phone Provisioning • Call Waiting PIN Users • Caller ID • QoS Queue Conference DDNS • Ring Group • Define Office Time Speed Dial Spy functions **Direct Inward System** • Access (DISA) • Distinctive Ringtone • Static Route Do Not Disturb(DND) VLAN Voicemail • External Storage •T.30,T.38 Faxes Alert Settings • IP Blacklist AMI Settings Extension CDR

1.2 Product Features

1.3 Product Appearance IP PBX NEXO 450



Table 1-3-1	Description of	of Front view
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Index	Indicators	Description
1	RUN	On: Starting Off: Abnormal Blinking every 0.5s: Normal status
2	PWR	On: Power on Off: Power off
3	WAN,LAN	Green LED: indicates the Internet interface is in Link . Yellow LED: ON is indicates 100MBps Ethernet port.
4	1~4,(5~8), (9~16)	Red LED stands for FXO port Orange LED indicates presence of a BRI port. Green LED stands for FXS port Red LED blinks: FXO port isn"t connected to PSTN line. Alternately blinks Red and Green: FXO port has an incoming call. Alternately blinks Red and Green fast: FXO port is in a call. Alternately blinks Green and Red: FXS port is ringing. Alternately blinks Green and Red fast: FXS port is in a call.

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Table 1-3-2 Description of Rear view

Index	Interface	Description
1	RST	Reset button to restore default IP and password or restore factory setting. Hold RST button 8 seconds, RUN LED being ON during this time
2	DC 12V	Power connector of DC power. Input: DC12V 3A/DC12
		1A (NEXO 450 only)
3	USB	For the storage of call recording files
4	WAN,LAN	 NEXO 8100 provides two 10/100 adaptive RJ45 Ethernet ports, marked as LAN and WAN. -LAN port :LAN port is for the connection to Local Area Network -WAN port:WAN port is the netword port for the connection to internet. It supports "DHCP server", "PPPoE/dynamic DNS", and "static IP" for IP address assignment.
5	1~4,(5~8), (9~16)	 FXO port (red light): For the connection of PSTN lines or FXS port of traditional PBX. NEXO 8100 users could make or receive calls via FXO port. FXS port (green light): For the connection of analog phones. BRI port(orange port): For the connection of ISDN BRI lines. NEXO 8100 users could make or receive calls via BRI port. Note:The sequence number of the port corresponds to that of the indicator lights in the front panel.

1.4 Scenario of Application

Application 1 - Figure 1.4.1



Application 2 - Figure 1.4.2



2. Installation Guide

2.1 Installation Notice

We use the NEXO 8100 device as an installation case as follows:

NEXO 8100 adapts 12VDC Power adapter, make sure AC power supply grounded well to ensure the reliability and stability; Notes: incorrect power connection may damage power adapter and device. NEXO 8100 provides standard RJ45 with 10Mbps or 100Mbps interfaces.

2.2 Installation Procedure

2.2.1 Connect Drawing



Figure 2.2.1 Connect Drawing

3. WEB Interface Configuration

PBX IP PBX has the same web interface. This chapter describes web configuration of PBX. The PBX contains an embedded web server to set parameters by using the HTTP protocol. We are strongly recommend to access device with Google Chrome or Firefox Browser.

We use the NEXO 8100 device as a configuration case as follows:

3.1 Access NEXO 8100 unit

Enter IP address of NEXO 8100 in IE/Google Chrome/Firefox Browser. The default IP of LAN port is 192.168.6.200. and the GUI shows as below: **In this example, the IP address is 192.168.6.91**

Lo	gin	PBX Configuration Panel
	User Name	
	admin	
	Password	
	•••••	
	Login	

Figure 3.1.1 WEB login interface

Enter username and password and then click "Login" in configuration interface. The default username and password are "admin/admin". It is strongly recommended, change the default password to a new password for system security .

3.2 Parameters Configuration

PBX WEB configuration interface consists of the navigation tree and the detail configuration interfaces.

8	Web Management Syste			
System Information System Information System Information Structures Status Trank Status Network Configuration Tranks PBX Desic PBX Resic PBX Advanced Settings	System Information LAN Status MGC Address Hostname Network DNS Server Traffic Statistics	02:99:16:02:20:27 MUC2008 192.168.6.95 192.168.6.1 RX bytes: 36752190 (35.0 MB)	255.255.254.0 TX bytes: 22752032 (21.6 MiB)	192.168.6.1
Voice Management System Preferences Phone Provisioning Reports System Tools	System Time Current Server Tim System Up Time	e March 2, 2016 10:10:21 16 hours 9 minutes 1 seconds		
 system roces 	System Resources Disk Usage(1K-bloc Memory Usage(1K-	sis) Used: 25540 Blocks) Used: 119264	Total: 389120 Total: 222896	Use%: 7% Use%: 53%
	Version Information Product Hardware Version Firmware Version	MUC2008 V1.0 00 12.1.0.10-beta01		

Figure 3.2.1 WEB introduction

Go through navigation tree, user can check, view, modify, and set the device configuration on the right of configuration interface.

3.3 System Information

System information interface shows the basic information of status information, mobile information and SIP information.

3.3.1 System Information

System Information			
LAN Status			
MAC Address	02:99:16:02:20:27		
Hostname			
Network	192.168.6.95	255.255.254.0	192.168.6.1
DNS Server	192.168.6.1		
Traffic Statistics	RX bytes: 36948829 (35.2 MiB)	TX bytes: 22900888 (21.8 MiB)	
System Time			
Current Server Time	March 2, 2016 10:13:21		
System Up Time	16 hours 12 minutes 5 seconds		
System Resources			
Disk Usage(1K-blocks)	Used: 25540	Total: 389120	Use%: 7%
Memory Usage(1K-blocks)	Used: 123932	Total: 222896	Use%: 55%
Version Information			
Product			
Hardware Version	V1.0 00		
Firmware Version	12.1.0.10-beta01		

Figure 3.3.1 system Information

Parameters	Description
MAC Address	Displays the current MAC of the gateway, for
	example: 70-B3-D5-1B-3D-02
Network	Current IP address and subnet mask of gateway
DNS Server	Displays DNS server IP address in the same network with the gateway
System Up Time	Shows the time period of the device running. For example, :1h : 20m : 24s
Traffic Statistics	Calculates the net flow, including the total bytes of message received and sent.
Version info	Shows the current firmware version

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3.3.2 Extensions Status

Y Show Filter				
Extension	Extension	Extension	Extension	Extension
7 100(SIP 192.168.6.33)	101(SIP 192.168.6.33)	ap 102(SIP 192.168.6.33)	2 103(SIP 192.168.6.33)	ap 104(SIP 192.168.6.33)
ap 105(SIP)	ap 106(SIP 192.168.6.33)	27 107(SIP)	2 108(SIP 192.168.6.33)	200 109(SIP)
27 110(SIP)	27 111(SIP)	27 112(IAX)	27 113(SIP)	27 114(SIP)
7115(SIP)	27 116(SIP)	27 117(SIP)	27 118(SIP)	27 119(SIP)
2) 120(SIP)	27 121(SIP)	27 122(SIP)	27 123(SIP)	27 124(SIP)
25(SIP)	27 126(SIP)	27(SIP)	27 128(SIP)	27 129(SIP)
27 130(SIP)	27131(SIP)	27 132(SIP)	27 133(SIP)	27 134(SIP)
7135(SIP)	27 136(SIP)	27137(SIP)	27 138(SIP)	27 139(SIP)
27 140(SIP)	27 141(SIP)	27 142(SIP)	27 143(SIP)	27 144(SIP)
2 145(SIP)	27 146(SIP)	27 147(SIP)	27 148(SIP)	27 149(SIP)
(FXS)	2 604(FXS)			

Figure 3.3.2 Extensions Status

3.3.3 Trunk Status

Figure 3.3.3 Trunk Stratus

				∢ ◀ Page 1		of 1(6 Records) > >	
Status	Trunk Type	Trunk Name	SIP/IAX	Transport	User Name	Hostname/Port	
Rejected	Trunk	test	SIP	udp		192.168.6.110	
Unreachable	Service Povider	test	SIP	udp		192.168.6.253	
OK (3 ms)	Service Povider	6150	SIP	udp		192.168.6.150	
OK (3 ms)	Service Povider	192.168.6.110	SIP	udp	-	192.168.6.110	
Unavailable	FXO	pstn1				Port 1	
Idle	FXO	pstn2			- <u></u>	Port 2	

Trunk Status Description:

VoIP Trunk:

Status

Rejected: Trunk registration failed.

Registered: Successful registration, trunk is ready for use.

Request Send: Registering.

Waiting: Waiting for authentication.

Service Provider:

Status

OK: Successful registration, trunk is ready for use.

Unreachable: The trunk is unreachable.

Failed: Trunk registration failed.

FXO Trunk:

Status

Idle: The port is idle.

Busy: The port is in use.

Unavailable: The port hasn"t connected to the PSTN line.

More detail message, please refer to the LED indication of front panel.

Parameters	Description
Status	Shows the registration status of Trunk channel, including
	registered and unregistered.
Trunk Type	Trunk mode will allow IP phone or IPPBX to register or trunk
	mode to register to provider
Name	It describes this VoIP channel for the ease of identification. Its
	value is character string
SIP/IAX	Choose the type of this trunk, SIP or IAX
Transfer	This will be the transport method used by the trunk. The
Protocol	options are UDP (default) or TCP or TLS.
User Name	The number for this VoIP channel
Hostname/IP Address	Hostname or IP Address of this VoIP channel

Table 3.3.3 Trunk Status

3.4 Network Configuration

3.4.1 LAN Configuration

ODynamic(DHCP) 0		
●Static IP Address ●		
Hostname	NEXO450	
IP Address	192.168.6.95	
Subnet Mask	255.255.254.0	
Gateway	192.168.6.1	
IP Address2		
Subnet Mask2		
MTU	1500	
NS Server		
ODynamic DNS Address		
Static DNS Address		
Primary DNS Server	192.168.6.1	
Secondary DNS Server		
	to take effect, you need to restart the device	

Figure 3.4.1 LAN Configuration

Parameter	Description
Dynamic (DHCP)	Enable the device obtain IP Address automatically
Static IP Address	Configure the "IP Address", "Subnet Mask" and "Default Gateway" by manual
Hostname	Set the host name for PBX
IP Address	Set the IP Address for PBX, It is recommended to configure a static IP address for PBX
Subnet Mask	Set the subnet mask for PBX
Gateway	Set the gateway for PBX
IP Address 2	Set the second IP Address for PBX

Table 3.4.1 Description of Local network

Subnet Mask2	Set the second subnet mask for PBX
MTU	Message transmit unit, default is 1500
Dynamic DNS Address	Obtain DNS Server Address Automatically
Static DNS Address	Obtain Primary DNS Server by manual
Primary DNS Server	Set the primary DNS Server for PBX.
Secondary DNS Server	Set the Secondary DNS Server for PBX.

Figure 3.4.1.2 WAN Configuration

Jse WAN		
O DHCP		
O Static IP Address		
IP Address	192.168.0.93	
Subnet Mask	255.255.254.0	
Default Gateway	192.168.6.1	
Primary DNS		
Secondary DNS		
PPPoE		
User Name	myuser	
Password	mypass	

Table 3.4.1.2 Description of WAN Configuration

Parameter	Description
Use WAN	Enalbe use wan
Dynamic (DHCP)	Enable the device obtain IP Address automatically
Static IP Address	Configure the "IP Address", "Subnet Mask" and "Default
	Gateway" by manual
IP Address	Set the IP Address for PBX, It is recommended to
	configure a static IP address for PBX
Subnet Mask	Set the subnet mask for PBX
Default Gateway	Set the default gateway for PBX
Primary DNS	Set the primary DNS Server for PBX.
Secondary DNS	Set the Secondary DNS Server for PBX.
PPPoE	Use PPPoE to achieve IP address
User Name	PPPoE user name
Password	PPPoE password

3.4.2 VLAN Configuration

A VLAN (Virtual LAN) is a logical local area network (or LAN) that extends beyond a single traditional LAN to a group of LAN segments, given specific configurations.

Note: PBX is not the VLAN server, a 3-layer switch is still needed, please configure the VLAN information there first, then input the details in PBX, so that the packages via PBX will be added the VLAN label before sending to that switch.

IP Address	192.168.8.125	
Subnet Mask	255.255.255.0	
Gateway	192.168.6.1	
□ No.2		
IP Address		
Subnet Mask		
Gateway		
VLAN Parameters(WAN)		
✓ No.1		
IP Address	192.168.0.92	
Subnet Mask	255.255.255.0	
Gateway	192.168.6.1	
□ No.2		
IP Address		
Subnet Mask		
Gateway		

Figure 3.4.2 VLAN Configuration

Parameter	Description
NO.1	Click the NO.1 you can edit the first VLAN over LAN
IP Address	Set the IP Address for PBX VLAN over LAN.
Subnet Mask	Set the Subnet Mask for PBX VLAN over LAN.
Gateway	Set the Default Gateway for PBX VLAN over LAN

Table 3.4.2 Description of VLAN Configuration

3.4.3 ARP Configuration

The ARP function is mainly used to query and add the map of IP and MAC. There are static or dynamic ARP entries.

Like other routers, the gateway can automatically find the network device on the same segment. But, sometimes you don't want to use this automatic mapping, you'd rather have fixed (static) associations between an IP address and a MAC address. Gateway provides you the ability to add static ARP entries to:

- Protect your network against ARP spoofing
- Prevent network confusion as a result of misconfigured network

device Click "Dynamic ARP" to check ARP buffer

RP Configuration		
Dynamic Static		
IP Address	MAC Address	
192.168.6.252	00:0c:29:58:79:b1	
192.168.6.210	00:15:65:73:6b:87	
192.168.6.110	f4:b5:49:01:38:96	
192.168.6.6	74:d4:35:95:03:8d	
192.168.6.202	00:15:65:73:65:db	
192.168.6.2	74:d4:35:d4:12:8c	
192.168.6.51	78:a5:04:bd:0c:f7	

Figure 3.4.3 Add ARP

Dynamic Static		
IP Address	MAC Address	Options Add
IP Address	MAC Address	Options
	122	

3.4.4 VPN Configuration

A Virtual Private Network (VPN) is a method of computer networking--typically using the public internet--that allows users to privately share information between remote locations, or between a remote location and a business' home network. A VPN can provide secure information transport by authenticating users, and encrypting data to prevent unauthorized persons from reading the information transmitted. The VPN can be used to

send any kind of network traffic securely. PBX supports OpenVPN.

Figure 3.4.4 VPI	V Configuration
------------------	-----------------

Upload VPN Profile Browse.
(Internet)
Inipoli

Table 3.4.4 Description of VPN Parameter

Parameters	Description
Import VPN Configuration Files	Import configuration file of OpenVPN.

Notes:

1. Don't configure "user" and "group" in the "config" file. You can get the config package from the OpenVPN provider.

- 2. PBX works as VPN client mode only.
- 3. Upload file *.tar with *.conf in it.

3.4.5 DDNS Server

DDNS(Dynamic DNS) is a method / protocol / network service that provides the capability for a networked device, such as a router or computer system using the Internet Protocol Suite, to notify a Domain Name System (DNS) name server to change, in real time, the active DNS configuration of its configured hostnames, addresses or other information.

IS Parameters		
Enable DDNS		
DDNS Server 0	www.oray.com	~
User Name	huigolin	
Password	koko520	
Host Name	servidorddns.net	
Update Period 0	120	sec
Status	DDNS Running	

Figure 3.4.5 DDNS Server

Table 3.4.5 Description of DDNS Server

Parameters	Description
DDNS Server	Select the DDNS server IP or domain name you sign up for service.
User Name	User name the DDNS server provides you.
Password	User account"s password.
Host Name	The domain name you have got from the DDNS server

Note: DDNS allows you to access your network using domain names instead of IP address. The service manages changing IP address and updates your domain information dynamically. You must sign up for service through dyndns.org, freedns.afraid.org, www.no-ip.com, www.zoneedit.com

3.4.6 Static Route

PBX will have more than one internet connection in some situations but it has only one default gateway. You will need to set some Static Route for PBX to force it to go out through different gateway when access to different internet. The default gateway priority of PBX from high to low is VPN/VLAN-> LAN port.

1) Route Table

The current route rules of PBX.

Figure 3.4.6 Static Routing Table

Routing Table Static Routing Rules					
Destinatio	n IP Address	Subnet Mask	Gateway	Metric	Interface
0.0.0.0		0.0.0	192.168.6.1	0	LAN

2) Static Route Rules

You can add new static route rules here.

Figure 3.4.6a Static Routing Rules

Routing Table	Static Routing	g Rules				
Destination IP	Address	Subnet Mask	Gateway	Metric 0	Interface	e Option: Add
Destinatio	n IP Address	Subnet Mask	Gateway	Metric 0	Interface	Options
	168.7.0	255,255,255,0	192,168,6,1		LAN	×

Table 3.4.6 Description of Static Routing

Parameters	Description
Destination IP Address	The destination network to be accessed to by PBX.
Subnet Mask	Specify the destination network portion.
Gateway	Define which gateway PBX will go through when access to the destination network.
Metric	The cost of a route is calculated by using what are called routing metric. Routing metrics are assigned to routes by routing protocols to provide measurable statistic which can be used to judge how useful (how low cost) a route is.
Interface	Define which internet port to go through.

3.4.7 DHCP Server

tatus	Inactive	
HCP Enable		
tart Address	192.168.6.100	
nd Address	192.168.6.254	
efault Lease Time	7200	(Of 1 to 50000 Seconds)
Sateway	192.168.6.1	
ubnet Mask	255.255.255.0	
rimary DNS	192.168.6.1	
econdary DNS		
rimary NTP Server		
econdary NTP Server		
VINS Server Address		
FTP Server		
llow Bootp Clients		

Figure 3.4.7 DHCP Server

Table 3.4.7 Description of DHCP Server

Parameters	Description
Status	DHCP service status
DHCP Enable	Enable DHCP service
Start Address	Start IP of DHCP IP pool
End Address	End IP of DHCP IP pool
Default Lease Time	Default lease time
Gateway	Gateway address
Subnet Mask	Specify the destination network portion.
Address	
Primary DNS	Set the primary DNS Server for PBX.

Secondary DNS	Set the Secondary DNS Server for PBX.
Primary NTP Server	Set the primary NTP Server
Secondary NTP Server	Set the Secondary NTP Server
WINS Server Address	Set the WINS Server Address
TFTP Server Server	Set the TFTP Server
Allow Bootp Clients	Allow bootp clients

3.5 Trunks

3.5.1 Physical Trunks(PSTN and GSM Trunks)

The public switched telephone network (PSTN) is the network of the world's public circuit-switched telephone networks.

Figure	3.5.1	Analog	Trunks
--------	-------	--------	--------

Analog Trunk				
			it 🛃 Page	1 of 1(2 Records) 🕨 🕅
Trunk Name	Port	Rxgain	Ring Detect Timeout	Options
pstn113	3	40%	8001	
pstntest112	4	40%	8002	

General				
Port	3		0	
Trunk Name	pstn113		0	
Rxgain	40% 🗸		0	
Answer On Polarity Detection	No 🗸		0	
ID Settings				
CID Detection	No 🗸		0	
CID Start	Ring 🗸		0	
CID Signalling	Bell - USA 💙		0	
Ring Detect Timeout	8001	ms	0	
langup				
Busy Detection	Yes 🗸		0	
Busy Count	4		0	
Busy Interval	1		0	
Busy Pattern			0	
Frequency Detection	No 🗸		0	
Busy Frequency			0	
Hangup On Polarity Detection	No 🗸		0	
Busy Frequency			0	

Figure 3.5.1a Analog Trunks Edit

Table 3.5.1 Description of Analog Trunk

Parameters	Description
Trunk Name	A unique label used to identify this trunk when listed in
	outbound rules, incoming rules, etc.E.g. "pstn113".
Rxgain	Used to modify the volume level of this trunk. Normally,
	this setting does not need to be changed.
Answer on Polarity Detection	Use a polarity reversal to mark when a outgoing call is answered by the remote party
CID Detection	For FXO trunks, this option forces PBX to look for Caller ID on incoming calls.
CID Start	This option allows you to define the start of a Caller ID
	signal:
	Ring: Start when a ring is received (Caller ID Signaling:

	Bell_USA, DTMF). Polarity: Start when a polarity reversal is started (Caller ID Signaling: V23_UK, V23_JP,DTMF). Before Ring: Start before a ring is received (Caller ID Signaling: DTMF).
CID Signalling	 This option defines the type of Caller ID signaling to use. It can be set to one of the following: Bell_USA: bell202 as used in the United States v23_UK: suitable in the UK v23_Japan: suitable in Japan v23-Japan pure: suitable in Japan DTMF: suitable in Denmark, Sweden, and Holland
Busy Detection	Busy Detection is used to detect far end hang-up or for detecting a busy signal. Select "Yes" to turn this feature on.
Budy Count	If Busy Detection is enabled, it is also possible to specify how many busy tones to wait for before disconnecting the call. The default is 4, but better results can be achieved if set to 6 or even 8. Remember, the higher the number, the more time will be required to release a channel. A higher setting lowers the probability that you will encounter random hang-ups.
Busy Interval	The busy detection interval
Busy Pattern	If Busy Detection is enabled, it is also possible to specify the cadence of your busy signal.In many Countries, it is 500msec on, 500msec off. If a Busy Pattern is not specified,The system will accept any regular sound-silence pattern that repeats <busy count=""> times as a busy signal. If you specify Busy Pattern, then the system will further check the length of the tone and silence, which will further reduce the chance of a false positive disconnection.</busy>
Frequency	Used for Frequency Detection (Enable detecting the busy
Detection	signal frequency or not).
Busy Frequency	If the Frequency Detection is enabled, you must specify the local frequency.
Hangup Polarity Reversal Detection	The call will be considered as "hang up" on a polarity reversal.

Figure 3.5.1b GSM Trunks

Gsm Trunk				1	
				🛛 🚽 Page 🔟 of	1(1 Records) 🕨 🕅
Trunk Name	Port	Туре	Tx Gain	Rx Gain	Options
GSM1	1	GSM	40%	40%	

Figure 3.5.1c GSM Trunks Edit

Trunk Edit(1)			
Port	1	0	
Trunk Name	GSM1	0	
Mobile Number		0	
CLIR	No 🗸	0	
Rx Gain	40% 🗸	0	
Tx Gain	40% 🗸	0	
Call Progress Tone	No 🗸	0	
DTMF Detect Mode	Echo Before 🗸	0	
DTMF Detect Sensitive	Yes 🗸	0	
PIN		0	

Note: If you failed to enter your correct PIN code 3 times in succession, the SIM card will be blocked.



Table 3.5.1c Description of GSM Trunk

Parameters	Description
Port	A port for this trunk.
Trunk Name	A name for this trunk.
Mobile Number	Mobile number for this trunk.
CLIR	Calling Line Identification Restriction.
Rx Gain	The receive volume.
Tx Gain	The transfer volume.
Call Progress Tone	A ringback for this trunk.
DTMF Detect Mode	Set default dtmfmode for detect DTMF.
	Default: Echo Before
	Echo Before: Detect DTMF before echocan.
	Echo After: Detect DTMF after echocan.
DTMF Detect	DTMF detect sensitive.
Sensitive	
PIN	The PIN is normally associated with the SIM card.

3.5.2 IP Trunk (Peer to Peer Mode)

IP Trunk Page 1 of 1(1 Records) + Add I < Page 1 of 1(1 Records)</th> Trunk Name Type Hostname/IP Transport Options test SIP 192.168.6.252 udp I < X</th>

Figure 3.5.2a Add IP Trunk

Trunk Name		0	
Гуре	SIP T		
Outbound Caller ID		0	
Maximum Channels		0	
Hostname/IP		0	
Port	5060	0	
Transport	UDP V	0	
DTMF Mode	rfc2833 🔻	0	
Qualify	Yes 🔻	0	
Allowed Audio Codecs	ulaw,alaw,gsm	0	
DOD Settings			
DOD	Associa	ted Extension	Option
4			Þ
DOD	Associated Extension 100	• • Add DOD -	Add Bulk DOD

Figure 3.5.2 IP Trunk

Add Bulk DOD

Extensions List	Selecte	ed Extensions
100 <sip> 101 <sip> 102 <sip> 103 <sip> 104 <sip></sip></sip></sip></sip></sip>	۵.	•
105 <sip> 106 <sip> 107 <sip> 108 <sip></sip></sip></sip></sip>	Add >	Up
109 <sip> 110 <sip> 111 <sip> 112 <iax></iax></sip></sip></sip>	< Remove	Dowr
503 <fxs> 504 <fxs></fxs></fxs>		
	•	
	Begin	0
	Save Cancel	
	Save Cancel	

Parameters	Description
IP Trunk	Add remote IP of Softswitch, SIP server which will send call traffics to gateway.
Trunk Name	It describes the trunk for the ease of identification.
Туре	Choose the type of this trunk, SIP or IAX
Outbound	Caller ID for calls placed on out this trunk
Caller ID	
Hostname/IP	Service provider"s hostname or IP address, 5060 is the
Address	standard port number used by SIP protocol. Don"t change
	this part if it is not required.
Transport	This will be the transport method used by the SIP Trunk.
	This method is given by the SIP trunk provider. The options
	are UDP (default) or TCP or TLS.

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DTMF Mode	Set default mode for sending DTMF of this trunk. Default setting: rfc2833, Info, Shortinfo,Inband, Auto
Qualify	Send checking alive packets to the SIP provider. when it's disabled, PBX will ignore the reachability and the status of this account will be unmonitored.
Allow codecs	ulaw,alaw,gsm
DOD	Add dod number to associated extension.
Settintings	
Add Bulk DOD	Add bulk dod number to associated extensions which begin with Begin number

3.5.3 VoIP Trunk

In this page, we can configure VoIP trunk (SIP/ IAX) you have got from provider with the authorization name and password.

/olP Trunk					1
🕂 Add				I∢ ∢ Page O	Of 0 🕨
Index	Description	Туре	Hostname/IP	Transport	Options
30	5646546	SIP	192.168.6.4	udp	
31	123123	SIP	192.168.6.4	udp	

Figure 3.5.3 VoIP Trunk

SIP 192.168.6.90 102 102 102 192.168.6.90 102 102 0 102 0 102 0 0 0 0 0 0 0 0 0 0 0 0 0	
192.168.6.90 5060 102 0 102 0 102 0 192.168.6.90 0	
192.168.6.90 : 5060 0 102 0 0 102 0 0 102 0 0 192.168.6.90 0 0	
102 0 102 0 192.168.6.90 0	
102 0 192.168.6.90 0	
102 0 192.168.6.90 0	
192.168.6.90 0	
192.100.0.90	
102 0	
JDP 🔻 🕚	
rfc2833 🔻 🕚	
No 🔻 🚺	
Yes 🔻 🛈	
ulaw.alaw.gsm	
Associated Extension	Option
100	0
101	8
102	8
103	8
104	8
105	<u> </u>
Associated Extension 100 • • Add DOD	+ Add Bulk DOD
Y	No

Figure 3.5.3a Add VoIP Trunk

Add Bulk DOD

Extensions List	Selecte	d Extensions
100 <sip></sip>	*	*
101 <sip></sip>		
102 <sip></sip>		
103 <sip></sip>		
104 <sip></sip>		
105 <sip></sip>		
106 <sip></sip>		
107 <sip></sip>	Add >	Up
108 <sip></sip>	Add	00
109 <sip></sip>	< Remove	Dowr
110 <sip></sip>		
111 <sip></sip>		
112 <iax></iax>		
603 <fxs></fxs>		
604 <fxs></fxs>		
	-	*
	Begin	0
	Save Cancel	
	Internet Contract Internet Contract	

Table 3.5.3 Description	of VoIP	Trunk
-------------------------	---------	-------

Parameters	Description
Trunk Name	It describes the trunk for the ease of identification.
Туре	Choose the type of this trunk, SIP or IAX
Outbound Caller ID	Caller ID for calls placed on out this trunk
עו	
Hostname/IP	Service provider"s hostname or IP address, 5060 is the
Address	standard port number used by SIP protocol. Don"t change
	this part if it is not required.
User Name	User name of SIP account.
Password	Password of SIP account.
Authorization Name	Used for SIP authentication, it's the same as user name generally.
Domain	VoIP provider"s server domain name

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From User	All outgoing calls from this SIP Trunk will use the From
	User in From Header of the SIP Invite package. Keep this
	field blank if it"s not needed.
Transport	This will be the transport method used by the extension. The options are UDP (default) or TCP or TLS.
SRTP	Define if SRTP is enabled for this trunk, it depends on
	provider"s configuration.
DTMF Mode	RFC2833, Info, Shortinfo, Inband, Auto.
Qualify	Send check alive packets to IP phones, when it's disabled,
	PBX will ignore the reachability and the status of this
	account will be unmonitored.
Allow codecs	ulaw,alaw,gsm
Domain	VoIP provider"s server domain name
Proxy Address	A proxy that receives requests from a client, even though
	it may not be the server resolved by the Request-URI.
DOD Settintings	Add dod number to associated extension.
Add Bulk DOD	Add bulk dod number to associated extensions which begin with Begin number

3.6 PBX Basic

3.6.1 Extensions

3.6.1.1 FXS Extensions

There are three types of extensions supported in PBX: SIP, IAX and analog extension(FXS).

FXS Extensions						
Port	Extension Number	Display Name	Caller ID	RX Gain	TX Gain	Detail
1	601	601	601	40%	40%	
2	602	602	602	40%	40%	

Figure 3.6.1.1 Extensions

VoIP Extensions								
+ Add	d Extension 🗙 Delete the sel	A Page 1 of 1(5 Records)						
	Extension Number	Register Name	Туре	Display Name	Caller ID	Options		
	100	100	SIP	100	100			
	101	101	SIP	101	101			
	102	102	SIP	102	102			
	105	105	SIP	105	105			
	600	600	SIP	600	600			

Figure 3.6.1.1a Fxs Extensions Edit

Seneral	Voicemail	Options	Other		
-User Ir	nformation —				
Extension Type		FXS	~	0	
Port		1		0	
Exter	Extension Number			0	
Displa	ay Name	601		0	
Caller ID		601		0	
Outbo	Outbound CID			0	
Emergency CID				0	

Parameters	Description
Port	The extension correspond port.
Extensions Number	The numbered extension, e.g. 601, that will be associated with this particular User/Phone.
Display Name	A character-based name for this user, e.g. "Han Jones".
Call ID	The Caller ID (CID) string will be used when this user calls another internal user.
Outbound CID	Overrides the caller ID when dialing out a trunk. Any setting here will override the common outbound caller ID set in the trunks admin . Format: "caller name" <######> Leave this field blank to disable the outbound caller ID feature for this user
Emergency CID	This Caller ID will always be set when dialing out an outbound route flagged as emergency. The emergency CID overrides all other callerID Settings.

Table 3.6.1.1a FXS Extensions

Figure 3.6.1.1b Fxs Extensions Voicemail

General	Voicemail	Options Other		
- Voicem	ail Configura	tion		
Enabl	e Voicemail	\checkmark	0	
Disab	le PIN		0	
PIN N	umber	601	0	
Email	Address		0	
Email	Attachment	No 🗸	0	
Play C	CID	No 🗸	0	
Play E	nvelope	No 🗸	0	
Delete	e Voicemail	No 🗸	0	

Table 3.6.1.1b Description of FXS Extensions Voicemail

Parameters	Description		
Enable Voicemail	Check this box if the user should have a voicemail account.		
Disable PIN	Disable voicemail PIN authentication.		
PIN Number	Password used to access the Voicemail system.e.g. "601".		

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Email Address	This option defines whether or not voicemails/Fax is sent to			
Email Attachment				
	Note : Please ensure that all voicemail settings are properly			
	configured on the System			
Play CID	Read back caller's telephone number prior to playing the incoming			
	message.			
Play Envelope	Envelope controls whether or nor the Voicemail system will			
	play the message envelope (date/time) before playing the			
	voicemail message.			
Delete Voicemail	the message will be deleted from the Voicemailbox (after having			
	been emailed).			

Figure 3.6.1.1c FXS Extensions Options

ieneral	Voicemail	Options	Other		
Call For	ward				
Alw	ays			Voicemail	
On Unavailable Send Call to:		Number			
🕑 Whe	en Busy			Hang Up	
Volume	Settings				
RX Gai	in	40%	•	0	
TX Gain 40% •		0			
Mobility	Extension —				
📃 Enable MobileExten 🔍				Mobile Num	0
Enable RingAll 0		Outbound Prefix	0		
Options					
Maxim	um Call Duratio	on 📄		0	
Ring Ti	ime	Defa	ult 🔻	0	
Call W	aiting	Disat	ole 🔻	0	
Pinless	Dialing	Disat	ole 🔻	0	
Call Gr	oup			0	
Pickup	Group			0	
	t Disturb			0	

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Parameters	Description Description			
Call Forward	This function sets inbound call forwarding on an extension.			
	<u> </u>			
(Follow Me)	An administrator can configure Call Forward for this extension.			
Volume Settings	Rxgain: The Volume sent to FXS extension. Txgain: The Volume sent out by the FXS extension			
Mobility	Mobile Num: if you set a mobile number as mobility			
Extension	extension, while you call in PBX with this mobile number,			
	the mobile phone will get all permission of the associated			
	extension.for example: dialing the extension, playing the			
	voicemail.			
	Enable RingAll: when someone calls the associated			
	extension, your mobile phone will ring together, what you			
	need is set outbound route and set Outbound Prefix number.			
Maximum Call Duration	The absolute maximum amount of time permitted for a call, it or valid for outbound calls			
Ring Time	Number of seconds to ring prior to going to voicemail.			
Call Waiting	Check this option if the extension should have Call Waiting			
J	capability. If this option is checked, the "When busy" follow			
	me options will not be available.			
Pinless Dialing	Pinless Dialing will allow this extension to bypass any pin codes			
	normally required on outbound calls			
Call Group	Call group for peer/user			
Pickup Group	If this extension belongs to a pickup group, any calls that			
	ring this extension can be picked up by other extensions in			
	the same pickup group by dialing the Call Pickup feature			
	code(the default is *8).			
	Note: *8 is the default setting, it can be changed under			
	Feature Codes -> General -> Call Pickup.			
Do Not Disturb	Do Not Disturb			

Table 3.6.1.1c Description of FXS Extensions Options
Spy Setting				
Allow Being Spied	Enable 🗸	0		
Spy Modes	Disable 🗸	0		
Flash				
Hook Flash Detection	1000	0		
Web Login				
Enable			0	
Login Name	601		0	
Password	•••	ste ste	Weak	

Figure 3.6.1.1d Fxs Extensions Other

Table 3.6.1.1d Description of FXS Extensions Other

Parameters	Description
Spy Settings	PBX allows extension to monitor/barge in other
	conversation. Once this feature is enabled, the extension
	has the ability to monitor/barge in other calls using the
	feature codes for each spy mode. Refer to "Feature Codes"
	section
	for more information.
spy modes	There are 4 spy modes available:
	 General spy: you have the permission to use the following 3
	modes.
	• Quiet spy: you can only hear the call, but can't talk.
	• Whisper spy: you can hear the call, and can talk with the monitored extension.
	• Barge spy: you can hear the call and talk with them both.
Flash	Sets the amount of time, in milliseconds, that must pass
	since the last hook-flash event received by PBX before it will
	recognize a second event. If a second event occurs in less
	time than defined by Hook Flash Detection, then PBX will
	ignore the event. The default value of Flash is 1000ms, and
	it

	can be configured in 1ms increments.	
Web Login	Extension web login setttings.	

3.6.1.2 VoIP Extensions

A VoIP extension is a SIP/IAX Account that allows an IP Phone or an IP soft phone client to register on PBX.

VoIP Extensions						
+ /	Add Extension 🗙 Delete the	e selected Extensions			H 4 Page 1 of	1(12 Records) 🕨 🕅
	Extension Number	Register Name	Туре	Display Name	Caller ID Number	Options
	100	100	SIP	100		
	101	101	SIP	101	101	
	102	102	SIP	102	102	
	103	103	SIP	103	103	
	104	104	SIP	104	104	
	105	105	SIP	105	105	
	106	106	IAX	106	106	
	107	107	IAX	107	107	
	108	108	IAX	108	108	
	555	555	SIP	555	555	
	556	556	SIP	556	556	
	600	600	SIP	600	600	

Figure 3.6.1.2 VoIP Extensions Edit/Add

Figure 3.6.1.2a VoIP Extensions Edit/Add



	Table 3.6.1.2a Description of VoIP Extensions Edit/Add
Parameters	Description
Extension Type	Extension type: SIP, IAX or SIP/IAX.
	• SIP—The extension sends and receives calls using
	the VoIP protocol SIP.
	• IAX—The extension sends and receives calls using the
	VoIP protocol IAX.
Extension	The numbered extension, e.g. 100, that will be associated
Number	with this particular User/Phone.
Display Name	A character-based name for this user, e.g. "Han Jones".
Caller ID	The Caller ID will be used when this user calls another
	internal extension.
Outbound CID	Overrides the caller ID when dialing out a trunk. Any setting here will override the common outbound caller ID set in the trunks admin . Format: "caller name" <######>
	Leave this field blank to disable the outbound caller
	ID feature for this user
Emergency CID	This Caller ID will always be set when dialing out an
	outbound route flagged as emergency. The emergency CID overrides all other callerID Settings.
Register Name	It is for extension registration validation. Users will not be able register the extension if the authorization name is incorrect even though the username and password are correct.
Password	
Passworu	The password for this extension, but it is not a fixed one. When you add new extension, a random and robust password will be generated like "0e3lx9Iz".
Transport	This will be the transport method used by the extension. The
	options are UDP (default) or TCP or TLS.
SRTP	Enable extension for SRTP (RTP Encryption).
DTMF Mode	RFC2833, Info, Short Info, Inband, Auto.
Qualify	Send check alive packets to IP phones.

of VoID Exton Table 3 6 1 2a Deco rinti -1-. Edi+/Add

NAT	This setting should be used when the system is using a
	public IP address to communicate with devices hidden
	behind a NAT device (such as a broadband router). If you
	have one-way audio problems, you usually have problems
	with your NAT configuration or your firewall's support of SIP
	and/or RTP ports.

General	Voicemail	Options	Other		
Voicem	ail Configura	tion			
Enabl	e Voicemail	✓		0	
Disab	le PIN			0	
PIN N	lumber	100		0	
Email	Address			0	
Email	Attachment	No	~	0	
Play (CID	No	~	0	
Play E	Envelope	No	~	0	
Delet	e Voicemail	No	~	0	

Figure 3.6.1.2b VoIP Extensions Voicemail

Table 3.6.1.2b Description of VoIP Extensions Voicemail

Parameters	Description
Enable Voicemail	Check this box if the user should have a voicemail account.
Disable PIN	Disable voicemail PIN authentication.
PIN Number	Password used to access the Voicemail system.e.g. "100".
Email Address	This option defines whether or not voicemails/Fax is sent to
Email Attachment	the Email address as an attachment.
	Note: Please ensure that all voicemail settings are properly
	configured on the System
Play CID	Read back caller's telephone number prior to playing the incoming message.
Play Envelope	Envelope controls whether or nor the Voicemail system will
	play the message envelope (date/time) before playing the
	voicemail message.
Delete Voicemail	the message will be deleted from the Voicemailbox (after having been emailed).

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Options Other		
	Voicemail	
Send Call to:	Number	
	🔘 Hang Up	
	Mobile Num	0
	Outbound Prefix	0
	0	
Default 🔻	0	
Disable 🔻	0	
Disable 🔻	0	
yes	• 0	
	0	
	0	
	0	
	Default Disable yes	Send Call to: Number Hang Up Mobile Num Outbound Prefix Default Outbound Prefix Outbound Prefix

Figure 3.6.1.2c VoIP Extensions Options

Table 3.6.1.2c Description	of VoIP Extensions Opt	tions
----------------------------	------------------------	-------

Parameters	Description
Call Forward	This function sets inbound call forwarding on an extension.
(Follow Me)	An administrator can configure Call Forward for this
	extension.
Mobility	Mobile Num: if you set a mobile number as mobility
Extension	extension, while you call in PBX with this mobile number,
	the mobile phone will get all permission of the associated
	extension.for example: dialing the extension, playing the
	voicemail.
	Enable RingAll: when someone calls the associated
	extension, your mobile phone will ring together, what you
	need is set outbound route and set Outbound Prefix
	number.
Maximum Call	The absolute maximum amount of time permitted for a call, it only valid for outbound calls

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Duration	
Ring Time	Number of seconds to ring prior to going to voicemail.
Call Waiting	Check this option if the extension should have Call Waiting
	capability. If this option is checked, the "When busy" follow me options will not be available.
Allow Re-invite	Re-Invite policy for this device.
	yes: Allow RTP media direct.
	no: Deny re-invites.
	nonat: Allow reinvite when local, deny reinvite when NAT.
	update: Use UPDATE instead of INVITE.
	update, nonat: Use UPDATE when local, deny when NAT.",
Pinless Dialing	Pinless Dialing will allow this extension to bypass any pin codes normally required on outbound calls
Call Group	Call group for peer/user
Pickup Group	If this extension belongs to a pickup group, any calls that
	ring this extension can be picked up by other extensions in
	the same pickup group by dialing the Call Pickup feature
	code(the default is *8).
	Note : *8 is the default setting, it can be changed under
	Feature Codes -> General -> Call Pickup.
Do Not Disturb	Do Not Disturb

neral Voicemail	Options Other				
Spy Setting					
Allow Being Spied	Disable 🗸	0			
Spy Modes	Disable 🗸	0			
IP Restriction					
Deny		N			0
Permit		X		0	0
Web Login					
Enable			0		
Login Name	100		0		
Password	•••	***	Wea	k	
-Fax Configuration					
Associated Email			0		

Figure 3.6.1.2d VoIP Extensions Other

💾 Save 🥕 Back

Table 3.6.1.2d Description of VoIP Extensions Other

Parameters	Description
Spy Settings	PBX allows extension to monitor/barge in other conversation. Once this feature is enabled, the extension has the ability to monitor/barge in other calls using the feature codes for each spy mode. Refer to "Feature Codes" section for more information.
spy modes	 There are 4 spy modes available: General spy: you have the permission to use the following 3 modes. Quiet spy: you can only hear the call, but can't talk. Whisper spy: you can hear the call, and can talk with the monitored extension. Barge spy: you can hear the call and talk with them both.

IP Restriction	IP Restriction Settings		
	Default leave it blank on "IP Restriction" configuration. it		
	indicate that registration of remote extension is		
	allowed(remote extension IP Address is not deny)		

	Deny: IP Address range to deny access to, in the form of		
	network/netmask, e.g.0.0.0/0.0.0.0		
	Permit: IP Address range to deny access to, in the form of		
	network/netmask,this can be a very useful security option		
	when dealing with remote extensions that are at a known		
	location(such as a branch office) or within a known ISP		
range for some home office situations.			
	e.g.192.168.6.1/255.255.255.0		
Web Login	Extension web login setttings.		
Fax	Associated Email: the email address that FAXs are send to.		
Configuration	It is used for T.38 FAX		

3.6.2 Feature Codes

There are many feature codes available in PBX, which allow users to dial from extension side to realize the exact feature.

Figure 3.6.2 Feature Codes

General			
Call Pickup	*8	2	Enable *
Call Trace	*69	۲	Enable *
Directed Call Pickup	*08		Enable 1
Attended Transfer	*2		Enable 1
Blind Transfer	##	8	Enable 1
One Touch Record	*1		Enable
Call Forward			
Call Forward All Activate	*72		Enable 1
Call Forward All Deactivate	*73		Enable 1
Call Forward Busy Activate	*90		Enable 1
Call Forward Busy Deactivate	*91		Enable 1
Call Forward No Answer Activate	*52		Enable 1
Call Forward No Answer Deactivate	*53	8	Enable 1
Call Forward to Voicemail	*900	2	Enable 1
Call Forward to Number	*901		Enable '
Call Forward Hang Up	*902		Enable 1
Call Waiting			
Call Waiting - Activate	*70	2	Enable 1
Call Waiting - Deactivate	*71	2	Enable 1
Do-Not-Disturb (DND)			
DND Activate	*78		Enable 1
DND Deactivate	*79	2	Enable 1
DND Toggle	*76		Enable 1
Speed Dial			
Speed Dial Prefix	*0		Enable 1
Voicemail			
Voicemail Main Menu	*97	2	Enable 1
Dial Voicemail	*98	2	Enable 1
Direct Dial Prefix	#		Enable '
Parking Lot			
Call Parking	*85		Enable 1
ChanSpy			
Quiet Mode	*93		Enable 1
Whisper Mode	*94		Enable '
Barge Mode	*95		Enable 1
Paging and Intercom			
Intercom Prefix	*80	2	Enable
User Intercom Allow	*54		Enable 1
User Intercom Disallow	*55		Enable 1
PIN User			
Access Code	*99	2	Enable *

Label	Feature Codes	Description		
Call Pickup	*8	Pickup extension		
	*(0	Trace last call number, and press 1, dial this		
Call Trace	*69	number out.		
Directed Call	*00	[featurecode] + extension number		
Pickup	*08	Pickup specify extension		
Attended	*2	[featurecode] + extension number		
Transfer	*Z	Specify transfer to extension		
Blind Transfer	##	[featurecode] + extension number After the success of the transfer to extension will automatically hang up		
One Touch	ب بل	Start recording in call, stop recording when Enter		
Record	*1	again		
Call Forward All	* 70	Call forward all activate		
Activate *72				
Call Forward All Deactivate *73		Call forward all deactivate		
Call Forward *90		Call forward busy activate		
Busy Activate	**90			
Call Forward		Call forward busy deactivate		
Busy	*91			
Deactivate				
Call Forward		Call forward no answer activate		
No Answer	*52			
Activate				
Call Forward		Call forward no answer deactivate		
No Answer	*53			
Deactivate				
Call Forward to	*900	Call forward to voicemail		
Voicemail				
Call Forward to	*901	Call forward to number		
Number				
Call Forward	*902	Call forward to hang up		
Hang Up	502			
Call Waiting -	*70	Call waiting activate		

Table 3.6.2 Descri	ption of	Feature	Codes
		i cacai c	couco

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Activate			
Call Waiting - Deactivate	*71	Call waiting deactivate	
DND Activate	*78	DND activate	
DND Deactivate	*79	DND deactivate	
DND Toggle	*76	DND toggle	
Speed Dial Prefix	*0	[featurecode] + Speed Dial Source Number = Speed Dial Destination Number	
Voicemail Main Menu	*97	Into voicemail main menu	
Dial Voicemail *98		Check extension voicemail	
Direct Dial Prefix	#	[featurecode] + Extension number Leave a message to Specify extension	
Call Parking	*85	Eg. Park a call to extension 701	
Quiet Mode	*93	[featurecode] + Extension number you can only hear the call, but can't talk.	
Whisper Mode	*94	[featurecode] + Extension number you can hear the call, and can talk with the monitored extension.	
Barge Mode	*95	[featurecode] + Extension number you can hear the call and talk with them both.	
Intercom Prefix	*80	[featurecode] + Extension number	
User Intercom Allow	*54	Allow user intercom	
User Intercom Disallow	*55	Disable user intercom	
Access Code	*99	[featurecode] + [password] Get into PIN Users function	

3.6.3 Speed dial

Figure 3.6.3 Speed Dial

Speed Di	ial			
Dial 'spe	eddial prefix *0 + Source Nun	ber' to turn into the 'Destination Number	, speeddial prefix is configured through Feature Cod	les.
+ Add	d Speed Dial 🗙 Delete ti	ne selected Speed Dial	id 🚽 Page 1	of 1(1 Records) 🕨 🔰
	Description	Source Number	Destination Number	Options
	60001	61	60001	

Figure 3.6.3a Speed Dial Add

escription	60002	
ource Number	62	
estination Number	60002	

Table 3.6.3 Description of Speed Dial

Parameters	Description
Source Number	The speed dial number.
Destination	The number you want to call.
Number	 E.g. the source number is "33". The destination number is 5528369. The prefix number is *90. You can use an extension with any type to dial *9033, then it will call the number 5528369. The predix of Speed dial is setting on "feathur codes" Note: Don"t forget to add the outbound dial prefix if you would like to dial the speed dial number through trunk.

3.6.4 Outbound Routes

In this page, we can configure the outbound rules to control the outgoing calls. **Notes:**

1. The max number of outbound route is 32.

2. If the dial patterns are the same in several routes, PBX will choose the available routes from top to the last one.

3. When you have created a new extension, please edit the outbound route so that it can dial out too.

Figure 3.6.4 Outbound Routes

Outbound Routes								
+ A	Add Route 🗙	Delete the selected Routes			🖂 🖣 Page	e 1 of 1	(1 Records) 🕨 🕨	
	Route Name	Route CID	Dial Patterns	Emergency	Office Hours Mode	Sort	Options	
	9_outside		9.	No	None			

We can create outbound route or use the default route "9_outside" (dial 9+numbers to dial out). Also you can delete multiple outbound routes at once as required.

Allow Trunks Disable Trunks Itest <sps> If rompstn1222 <fxo></fxo></sps>	Settings	Dial Patterns	Office Hours				
Route CID Override Extension • Route Password PIN Set test v PIN Sets Route Type Emergency • Intra-Company • Allow Extensions 	Route Set	tings					
Route Password PIN Set test Set test Set PIN Set test Set test Set Trunks Set Set <			9_outside				
PIN Set test ♥ PIN Sets 0 Route Type Emergency ● Intra-Company ● Allow Extensions Enable Extensions 00 < SIP> 101 < SIP> 100 < SIP> Add > 00 < SIP> Add > 00 < SIP> Add > 01 < SIP> 01 < SIP> 00 < SIP> Add > 01 < SIP> 00 < SIP> 00 < SIP> Add > 01 < SIP> 00 < SIP> 00 < SIP> Add > 01 < SIP> 00 < SIP> 00 < SIP> Add > 01 < SIP> 00 < SIP> 00 < SIP> Add > 01 < FXS > 00 wr		ē.				Extension U	
Route Type Emergency Intra-Company Allow Extensions Enable Extensions	Route Pa	ssword			0		
Allow Extensions Disable Extensions Enable Extensions ⁶⁰⁰ < SIP> ¹⁰⁵ < SIP> ¹⁰⁰ < SIP> ¹⁰¹ < SIP> ¹⁰¹ < SIP> ⁶⁰² < FXS> ⁶⁰¹ < FXS> Up Add > ⁶⁰¹ < FXS> Up Add > Creation of the second	PIN Set		test 🗸 PIN	<u>Sets</u>	0		
Disable Extensions Enable Extensions 600 <sip> 105 <sip> 100 <sip> 101 <sip> 102 <sip> 602 <fxs> 601 <fxs> Up Add > 602 <fxs> Down</fxs></fxs></fxs></sip></sip></sip></sip></sip>	Route Ty	pe	Emergency	Intra-Compa	ny 0		
600 < SIP> 105 < SIP> 100 < SIP> Add > 101 < SIP> 102 < SIP> 602 < FXS> 601 < FXS> Up Add > C Remove C Allow Trunks Enable Trunks Disable Trunks Enable Trunks test < SPS> frompstn1222 < FXO> FXO>	Allow Exte	ensions					
105 <sip> 100 <sip> Add > 602 <fxs> 601 <fxs> Up Allow Trunks Enable Trunks Disable Trunks Enable Trunks</fxs></fxs></sip></sip>		Disable Exte	nsions		Enable Ex	tensions	
Allow Trunks Disable Trunks Enable Trunks Itest <sps> Ifrompstn1222 <fxo></fxo></sps>	105 <si< td=""><td>P></td><td></td><td>10</td><td>2 <sip> 2 <fxs></fxs></sip></td><td></td><td>Up †</td></si<>	P>		10	2 <sip> 2 <fxs></fxs></sip>		Up †
Disable Trunks Enable Trunks test <sps> frompstn1222 <fxo></fxo></sps>			i				Down ↓
test <sps> frompstn1222 <fxo></fxo></sps>	-Allow Tru	nks					
test <sps> frompstn1222 <fxo></fxo></sps>		Disable Tru	inks		Enable 7	Frunks	
frompstn23333333 <fxo></fxo>	test <sp< td=""><td>PS></td><td></td><td>fro</td><td>mpstn1222 <fx mpstn23333333</fx </td><td>(0> 8 <fx0></fx0></td><td></td></sp<>	PS>		fro	mpstn1222 <fx mpstn23333333</fx 	(0> 8 <fx0></fx0>	
Add > Up				Add >			Up ↑
< Remove Dowr				< Remove			Down ↓

Figure 3.6.4a Outbound Routes Edit

Table 3.6.4a Description of Outbound Routes Edit

Parameters	Description
Route Name	Name of this Outbound Route. E.g. "Local" or "Long Distance".
Route CID	CID of this route
Override Extension	Whether ovrride extension cid
Route Passwd	The route password can be used to protect this route from being accessed without a password. You can choose one of

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	the passwords in the PIN list that you can click the "Pin
	Settings" to edit it in "Pin Settings" page.
PIN SET	Optional: Select a PIN Set to use. If using this option, Leave
	the route password field blank.
Route Type	Emergency
	Intra-Company
Disable	All disable extensions
Extensions	
Enable	Define the extensions that will be permitted to use this
Extensions	outbound route.
Disable Trunks	All disable trunks
Enable Trunks	Define the trunks that can be used for this outbound route.

Figure 3.6.4b Outbound Routes Edit

Settings	Dial Patterns	Office Hours			
Dial Pa	tterns				
	Prepend 0		Match Pattern 0	Strip 0	
	Prepend		9.	1	0

Table 3.6.4b Description of Outbound Routes Edit

Parameters	Description
Prepend	These digits will be prepended to the phone number before
	the call is placed. For example, if a trunk requires 10-digit
	dialing, but users are more comfortable with 7-digit dialing,
	this field could be used to prepend a 3-digit area code to all
	7-digit phone numbers before calls are placed.
Match Pattern	Outbound calls that match this dial pattern will use this
	outbound route. There are a number of dial pattern
	characters that have special meanings:
	X: Any Digit from 0-9
	Z : Any Digit from 1-9
	N: Any Digit from
	2-9

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	[12345-9] : Any digit in the brackets (in this example,
	1,2,3,4,5,6,7,8,9)
	The "." Character will match any remaining digits. For
	example, "9011." will match any phone number that starts with "9011", excluding "9011" itself.
	The "!" will match none remaining digits, and causes the
	matching process to complete as soon as it can be
	determined that no other matches are possible.
	Example 1: 1[5-8]6 will match 156,166,176,186.
	Example 2: 1NXXNXXXXX will match a phone number
	starting with a 1, followed by a 3-digit area code, and
	then
	6-digit number.
Strip	Allows the user to specify the number of digits that will be
	stripped from the front of the phone number before the call
	is placed. For example, if users must press 0 before dialing
	a phone number, one digit should be stripped from the dial
	string before the call is placed.
Add 🔍	Add multiple dial patterns in this outbound route.

Figure 3.6.4c Outbound Routes Edit

Settings	Dial Patterns	Office Hours		
Office H	lours			
Office	Hours Mode	None	✓ 0	
Specif	ic Office Hours	Configure	0	

Parameters	Description
Office Hours Mode	When a specific office hour is selected, this outbound route can only be used during this office hour, and can"t be used in non-office hours.
Speciffic Office Hours	Configure specific office hour

3.6.5 Parking Lot

General			
Parking Lot Extension	700	0	
Parking Lot Starting Position	701	0	
Number of Slots	8 🗸 (701-708)	0	
Options			
Parking Timeout(sec)	60	0	
Alert Info		0	
Find Slot	Next 🗸	0	
Parked Music Class	calmriver 🗸	0	
Transfer Capability	Caller 🗸	0	
Re-Parking Capability	Caller 🗸	0	
Destination for Orphane	d Parked Calls		
Destination	End Call 🗸	~ ●	

Figure 3.6.5 Parking Lot

Table 3.6.5	Description	of Parking	Lot
-------------	-------------	------------	-----

Parameters	Description
Parking Lot	This is the extension where you will transfer a call to park it.
Extension	
Parking Lot	The starting postion of the parking lot
Staring Postion	
Number of Slots	The total number of parking lot spaces to configure.
	Example, if 700 is the extension and 8 slots are configured,
	the parking slots will be 701-708
Parking Timeout	The timeout period in seconds that a parked call will
(sec)	attempt
	to ring back the original parker if not answered(0 for 45s).
Alert Info	This can create distinct rings on some SIP phones and can
	serve to alert the recipients that the call is from an
	Orphaned
	parked call.

Parked Music Class	This is the music class that will be played to a parked call while in the parking lot UNLESS the call flow prior to parking the call explicitly set a different music class, such as if the call came in through a queue or ring group.
Transfer Capability	Enables or disables DTMF based transfers when picking up a parked call.
Re-Parking Capability	Enables or disables DTMF based parking when picking up a parked call.
Destination	Destination to send the call to after Timeout Recording is played.

3.6.6 Time Groups

ay/Night Mode Control			
Status: Normal Mode			
		Use Default?	Feature Status
Switch To Day Mode	*34	✓	Enable 🗸
Switch To Night Mode	*35		Enable 🗸
Switch To Normal Mode	*034	•	Enable 🗸
lobal Time Groups			
Configure Time Groups	Configure H	lolidays	

Figure 3.6.6 Time groups configure

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	From:	To:	Time of Day	
Monday	08:00	17:00	Add >	
Tonday	08.00	17.00	< Remove	12
Tuesday	08:00	17:00	Add >	
luesuay	08.00	17.00	< Remove	
Wednesday	08:00	17:00	Add >	~
weathesday	08.00	17.00	< Remove	
Thursday	08:00	17:00	Add >	
marsaay	08.00	17.00	< Remove	
riday	08:00	17:00	Add >	
inday	00.00	17.00	< Remove	13
Saturday	08:00	17:00	Add >	
, atomaa j		17.00	< Remove	
Sunday	08:00	17:00	Add >	~
			< Remove	
			ок	Cancel

Figure 3.6.6a Time groups configure

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3.6.7 General Preferences

neral	
Select Language	English •
Max Account of Calls	0
Global Max Call Duration	7200
Ring Timeout	30 •
Country Tonezone	United States / North America 🔹
Music on Hold	calmriver 🔻
Follow Me Play Music on Hold	Ring T
FXO Mode	FCC •
Feature Digit Timeout	4000 ms
Services	
FTP Parameter	
Enable FTP	
Port 0	21
SSH Parameter	
Enable SSH	
Port 0	22
Web Parameter	
Enable HTTP	
Port 0	80
Enable HTTPS	
Port	443
Extension Parameters	
Extension Number	100 - 588
IVR Extensions	620 - 639
Conference Extensions	740 - 749
Queue Extensions	820 - 839
Ring Group Extensions	920 - 939
Paging Group Extensions	720 - 729

Table 3.6.7	Description	of General	Preferences
-------------	-------------	------------	-------------

Parameters	Description
Select Language	Web label language selection
	English and Chinese-S
Max Account of	Maximum concurrent calls limit(0 for unlimited)
Calls	
Global Max Call	The absolute maximum amount of time permitted for a call.
Duration	A setting of 0 disables the timeout.
Ring Timeout	Global extension ring timeout.
Country Tonezone	Please select your country or nearest neighboring country to enable the default dial tone, busy tone, and ring tone for your region.
Muisc on Hold	Select MOH music
Follow Me Play Music on Hold	Mucic of follow me Ring: normal ring back tone Defaul: default MOH music None: silence
FXO Mode	FXO coutry mode
Feature Digigt Timeout	Max time (ms) between digits for feature activation.
Enable FTP	FTP services, Default Port 21
Enable SSH	SSH services, Default Port 8022
Enable HTTP	HTTP services, Default Port 80
Enable HTTPS	HTTPS services, Default Port 443
Extension Number	The scope of VoIP Extension
IVR Extensions	The scope of IVR
Conference Extensions	The scope of conference extension
Queue Extensions	The scope of queue extension
Ring Group Extensions	The scope of ring group

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3.7 PBX Inbound Call Control

3.7.1 Inbound Routes

Inbound routing processes incoming call traffic to destination extensions during office hours or outside office hours

Inbou	nd Routes					
+	Add Route 🗙	Delete the selected Routes		14 -	Page 1	of 1(1 Records) 🕨 🔰
	Route Name	e DID Number	Caller ID Number	Enable Callback	Sort	Options
	default	бххх	136060	OFF		

There is a default inbound route for all the trunks and set IVR as the destination, you can edit it or create a new one for your demands or you can delete multiple outbound routes at once as required. When an incoming call arrives, the system will first check "Holidays".

ettings	Advanced Setting		
Genera	I		
Route	Name	default	0
DID N	umber		0
Extens	sion		0
Caller	ID Number		0
Alert I	nfo		0
Incomi	ng Trunks		
	All Trunks		Allow Trunks
to151 to110 to110 pstn5 pstn6	_sip <sps> IP_IAX <spx> VoIP_IAX <iax> VoIP_SIP <sip> <fxo> <fxo> <gsm></gsm></fxo></fxo></sip></iax></spx></sps>	Add > < Remove	up↑ Down↓
	onditions Groups Mode	None	0
Specif	ic Time Groups	Configure	0
Day D	estination	IVR 🗸	<620> Welcome 🗸 🔍
Night	Destination	End Call 🗸	✓ 0
Holiday	s Settings		
Holida	y Mode	None 🗸	0
Specif	ic Holiday	Configure	0
Holida	y Destination	End Call 🗸	✓ 0
Fax Det	tection	- 48	
	ation	No Detect 🗸	~ ●
Destin			

Figure 3.7.1a Inbound Routes Edit

Table 3.7.1a Description of Inbound Routes Edit

Parameters	Description
Route Name	A name for this inbound route. E.g. "default".
DID Number	Define the expected DID Number if this trunk passes DID on incoming calls. Leave this field blank to match calls with any or no DID info. You can also use pattern matching to match a range of numbers. The following patterns may be used: X : Any Digit from 0-9 Z : Any Digit from 1-9

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	N: Any Digit from 2-9
	[12345-9] : Any digit in the brackets (in this example, 1, 2,
	3, 4, 5, 6, 7, 8, 9)
	The "." Character will match any remaining digits. For
	example, "9011." will match any phone number that starts
	with "9011", excluding "9011" itself.
	The "!" will match none remaining digits, and causes the
	matching process to complete as soon as it can be
	determined that no other matches are possible.
	Example 1: NXXXXXX will match any 7-digit phone
	number.
	Example 2: 1NXXNXXXXX will match a phone number
	starting with a 1, followed by a 3-digit area code, and then
	6-digit number.
Extension	Define the extension for DID number. This field is only valid
	when you use BRI, SIP, SPS or SPX trunk for this inbound
	router. You can only input number and "-" in this field and
	the format can be xxx or xxx-xxx. The count of the number
	must be only one or equal to the count of the DID number.
Caller ID	Define the Caller ID Number to be matched on incoming
Number	calls. Leave this field blank to match any or no DID info.
	You can also use a pattern match (e.g. 2[345]X) to match a
	range of numbers.
	The following patterns may be used:
	X : Any Digit from 0-9
	Z : Any Digit from 1-9
	N: Any Digit from
	2-9
	[12345-9] : Any digit in the brackets (in this example, 1, 2,
	3, 4, 5, 6, 7, 8, 9)
	The "." Character will match any remaining digits. For
	example, "9011." will match any phone number that starts
	with "9011", excluding "9011" itself.
	The "!" will match none remaining digits, and causes the
	matching process to complete as soon as it can be
	determined that no other matches are possible.
	Example 1: NXXXXXX will match any 7 digits phone
	l number.
	number. Example 2: 1NXXNXXXXX will match a phone number

	starting with a 1, followed by a 3-digit area code, and then	
	6-digit number.	
Alert Info	Alert info can be used for distinctive ring with SIP devices.	
All Trunks	List all available trunks	
Allow Trunks	This area allows you to select which trunks will be member trunks for this route. To make a trunk a member of this route, please move it to the "Selected" box.	
Time Groups Mode	 Select time groups mode. None: Disable office hours for this route. Gloal office hours: It is configured through general preferences. Specific office hours: Use the specific office hours settings. 	
Specific Time Groups	Set specific time groups	
Day Destination	• End Calls Route the incoming calls to end calls, the system will auto	
NightDestination	hang up the call.Extension	
	Route the incoming calls to a specific extension.Voicemail	
	Route the incoming calls to extension"s voicemail.IVR	
	Route the incoming calls to a specific IVR.Ring Group	
	Route the incoming calls to a specific Ring Group.Conference Room	
	Route the incoming calls to a specific Conference Room. • DISA	
	Route the incoming calls to a specific DISA.Queues	
	Route the incoming calls to a specific Queue.Outbound Routes	
	Route the incoming calls to a specific outbound route. This function is mainly used for the connection of two branches.	
	For example: Company A locates headquarters in the USA	

Holiday Mode	 with a branch B in China. A and B both have a PBX phone system. Now if staff of A would like to make a call to a telephone or mobile phone in China from the extension of A but via the FXS line of B, that can be done by this configuration. Define where the calls will be routed during Holidays.
	 Select which defined Holiday to use. None: Disable holiday for this route. Gloal holiday: It is configured through general preferences. Specific holiday: Use the holiday settings.
Specific Holiday	Specific holiday time groups
Holiday Destination	Configure where to route the incoming calls during holidays.
Destination	Fax detect destination

Figure 3.7.1b Inbound Routes Edit

ettings	Advanced Settin	9		
Options	5			
CID Na	ame Prefix		0	
Signal	RINGING		0	
Enable	Callback	Callback	0	

Table 3.7.1b Description of Inbound Routes Edit

Parameters	Description
CID Name Prefix	Set inbound CID prefix
Signal RINGING	Some devices or providers require RINGING to be sent before ANSWER. You'll notice this happening if you can send calls directly to a phone, but if you send it to an IVR, it won't connect the call.
Enable Callback	Enable callback

3.7.2 Blacklist

Blacklist is used to block an incoming/outgoing call. If the number of incoming/outgoing call is listed in the number blacklist, the caller will hear the following prompt: "The number you have dialed is not in service. Please check the number and try again". The system will then disconnect the call.

Blacklist	
+ Add	A Page 1 of 1 (1 Records)
Number	Options
5608344	

We can add a number to blacklist

Figure 3.7.2a Blacklist Add

lacklist Add		
Number	5984624 ×	
	💾 Save 🥕 Back	

3.7.3 IVR

When there"s an inbound call aims at Auto Attendant, PBX will play an IVR recording and route the caller to the requested destination (for example, "Welcome to XX company, for sales press 1, for technical support press 2, for operator press 0", etc.). The system will transfer the call to corresponding extension according to DTMF digits input by the user.

Figure 3.7.3 IVR

IVR					
+ Add	d IVR 🗙 Delet	e the selected IVR		🕅 ┥ Page	1 of 1(1 Records) 🕨 🕨
	Number	Description	Timeout	Call Direct Extensions	Options
	620	Welcome	3	Yes	

There is a default IVR here, we can edit it directly or add IVR by yourself.

General			
IVR Number	621	0	
IVR Description	621	0	
Announcement	default 🗸	0	
Enable Direct Dial	No 🗸	0	
Timeout	3 🗸	0	
Invalid Retries	3 🗸	0	
Invalid Destination	End Call 🗸	✓ 0	
Timeout Retries	3 🗸	0	
Timeout Destination	End Call 🗸	✓ 0	
CID Name Prefix		0	
IVR Entries			
Key	Destination		Delete
digits pressed	==choose one==		٢
0			

Figure 3.7.3a IVR Add

Parameters	Description
IVR Number	PBX treats IVR as an extension; you can dial this extension number to reach the IVR from internal extensions.
IVR Description	Description of this IVR.
Announcement	Greeting to be playd on entry to the IVR.
Enable Direct Dial	Allow the caller to dial other extensions number directly.
Timeout	The number of times that the selected IVR prompt will be played.
Invalid Retries	Invalid retries number of keys
Invalid Destination	Destination when Number of times more than the settings.

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Timeout Retries	Retry timeout
Timeout Destination	Destination of timeout
CID Name Prefix	IVR CID preifx name
Кеу	The Key pressed when the callers hear the IVR prompt.
Destination	Where will PBX route the call when the action occurs.
Delete	Delete a key to the destination IVR record.
Add	Add a key to the destination IVR record.

3.7.4 Queue

Call Queues give users (e.g. call centers) an efficient means to have their calls answered in the order they were received to deliver top tier customer service.

Queue	s						
	Queue number + '*'' to lo or '820**' to log out	og in or 'Queue number	+ '**" to log out	the queue. For e	xample, if the queue nur	nber is '820', then the agent	can dial '820*' to
+ 4	Add Queue 🗙 Dele	ete the selected Queues				A Page 1 of 1	(1 Records) 🕨 🕨
	Queue Number	Queue Name	Password	Strategy	Timeout Queue	Timeout Agents	Options
	820	Queue820		ringall	Unlimited	10	

Edit Queue Options Advanced Settings General General 820 0 Queue Number Queue Name Queue820 0 Queue Password 0 Max Time Caller in Queue Unlimited V Agents Timeout 10seconds V **CID Name Prefix** Queue820-**Ring Strategy** ringall V 0 Restrict Dynamic Agents No 🗸 0 Static Agents Allow Members Extensions 101 <SIP> 601 <FXS> 602 <FXS> 600 <SIP> 102 <SIP> 105 <SIP> Add > 100 <SIP> Up ↑ 103 <SIP> Down ↓ < Remove **Dynamic Agents** Extensions Allow Members 601 <FXS> 602 <FXS> 101 <SIP> 102 <SIP> Add > Up ↑ 600 <SIP> 105 <SIP> Down ↓ < Remove 100 <SIP> 103 <SIP> 💾 Save A Back

Figure 3.7.4a Queue General

Parameters	Description
Queue Number	Use this number to dial into the queue, or transfer callers to
	this number to put them into the queue.
Queue Name	A name for the Queue.
Queue	You can require agents to enter a password before they can
Password	log in to this queue.
Max Time Caller	The maximum number of seconds a caller can wait in a
in Queue	queue before being pulled out (0 for unlimited).
Agents Timeout	The number of seconds an agent's phone can ring before we consider it a timeout.
CID Name Prefix	CID preifx name
Alert Info	Alert info can be used for distinctive ring with SIP devices.
Ring Strategy	This option sets the Ringing Strategy for this Queue. The
	options are
	• ringAll: Ring all available Agents simultaneously
	until one answers.
	 leastRecent: Ring the Agent which was least
	recently called.
	• fewestCalls: Ring the Agent with the fewest
	completed calls.
	random: Ring a Random Agent.
	• rrmemory: Round Robin with Memory,
	 Remembers where it left off in the last ring pass. Linear: Rings agents in the other specified, for
	dynamic agents in the other they logged in.
Restrict	Restrct dynamic agents
Dynamic Agents	
Static Agents	This selection shows all users. Selecting a user here makes
	them an agent of the current queue.
Dynamic Agents	Select dynamic agents

Table 3.7.4a Description of Queue General

General Options Adv	anced Settings		
-General Options			
Queue Weight	0 🗸	0	
Music on Hold Class	test 🗸	0	
Ringing Instead of Moh	No 🗸	0	
Agent Announcement	None 🗸	0	
Join Announcement	None 🗸	0	
Retry	30seconds 🗸	0	
Warp-Up-Time	30seconds 🗸	0	
Ring in Use	Yes 🗸	0	
Report Hold Time	No 🗸	0	
Auto Pause	No 🗸	0	
Capacity Options			
Max Callers	15 🗸	0	
Join Empty	No 🗸	0	
Leave When Empty	Yes 🗸	0	

💾 Save 🥕 Back

Devenenterie	
Parameters	Description
Queue Weight	Gives queues a 'weight' option, to ensure calls waiting in a higher priority queue will deliver its calls first if there are agents common to both queues.
Music on Hold	Music (MoH) played to the caller while they wait in line for
Class	an available agent.
Ringing Instead	Enabling this option make callers hear a ringing tone instead
of Moh	of Music on Hold.
Agent	Announcement played to the Agent prior to bridging in the
Announcement	caller
Join Announcement	Announcement played to callers prior to joining the queue.
Retry	The number of seconds we wait before trying all the phones again.
Warp-Up Time	How many seconds after the completion of a call an Agent
	will have before the Queue can ring them with a new call.(0 for no delay).
Ring In Use	If set to no, the queue will avoid sending calls to members whose devices are known to be 'in use'.
Report Hold Time	If you wish to report the caller's hold time to the member before they are connected to the caller, set this to yes.

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Max Callers	Maximum number of people waiting in the queue.
Join Empty	 This option controls whether callers can join a call queue that has no agents. There are two options, Yes: Callers can join a call queue without agents or only unavailable agents No: Callers cannot join a queue when there are no agents in the queue.
Leave When Empty	 This option controls whether callers already on hold are forced out of a queue that has no agents. There are two options. Yes: Callers are forced out of a queue when no agents are logged in. No: Callers will remain in a queue with no agents.

Figure 3.7.4c Queue Advanced Settings

eneral Options A	dvanced Settings	
Caller Position Annou	cements	
Frequency	1minute,15seconds V 0	
Announce Position	Yes 🗸 0	
Announce Hold Time	Yes 🗸 0	
Periodic Announceme	its	
Prompt	default 🗸 🛛 0	
Frequency	30seconds V	
Events,Stats		
Event When Called	No 🗸 0	
Member Status Event	No V	
Service Level	1minute V O	
Fail Over Destination		
Destination	End Call V	
	💾 Save 🅕 Back	
Parameters	Description	
-----------------------	---	
Frequency	How often to announce queue position and estimated hold time. Note: "0 seconds" means disabling the announcement.	
Announce Position	Announce position of caller in the queue	
Announce Hold Time	Enabling this option causes PBX to announce the hold time to the caller periodically based on the frequency timer. Either yes or no; hold time will not be announced if <1 minute.	
Prompt	Select a prompt file to play periodically.	
Frequency	How often to announce a prompt to the caller.	
Event When	If a caller presses the key while waiting in the queue, this	
Called	setting selects which action should process the key press.	
Member Status		
Event		
Service Level		
Destination	Define the failover action. A failover occurs after the user reach the Queue max wait time.	

Table 3.7.4c Description of Queue Advanced Settings

3.7.5 Ring Groups

Ring groups can be configured to balance the call traffic for multiple users and give callers a higher level of availability for incoming calls. Multiple ring methods and voicemail are supported.

Note: Call forward(follow me) feature in extension page will not take effect when it's ringing as an agent.

Ring Groups					
+ Add	I Ring Group	× Delete the selected Ring Groups		🛛 🚽 Page 🚺	of 1(1 Records) 🕨 🕨
	RG Number	RG Name	Ring Strategy	Ring Time	Options
	920	RingGroup920	Ring all Selection	45	

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eneral			
RG Number	920	0	
RG Name	RingGroup920	0	
Ring Strategy	Ring all Selection 🗸	0	
Ring Time	45	0	
Music on Hold	calmriver 🗸	0	
Ring Instead Of Moh		0	
CID Name Prefix	RingGroup920-	0	
Alert Info		0	
600 <sip> 105 <sip> 100 <sip> 103 <sip></sip></sip></sip></sip>	Add > < Remove	101 <sip> 102 <sip> 601 <fxs> 602 <fxs></fxs></fxs></sip></sip>	Up↑ Down↓
	er		
estination If No Answ	End Call	\sim	0

Figure 3.7.5a Ring Groups Edit

Table 3.7.5a Description	of Ring	Groups Edit
--------------------------	---------	-------------

Parameters	Description
RG Number	This option defines the numbered extension that can be dialed to reach this group.
RG Name	This option defines a name for this group, e.g. "Sales". "Ring Group Name" is a label to help you identify this group in the group list.
Ring Strategy	 This option sets the Ringing Strategy for this Group. The options are as follows: Ring All Simultaneously: Ring all available Extensions simultaneously. Ring Sequentially: Ring each extension in the group one

÷.

	at a time.
Ring Time	 If the strategy is "Ring All Simultaneously", it means the number of seconds to ring this group before routing the call according to the "Destination if No Answer" settings. If the strategy is "Ring Sequentially", it means the number of seconds to ring a single extension before moving onto the next one.
Music on Hold	If you select a music on hold class to play, instead of "ring", they will hear that instead ringing while they are waiting for someone to pick up
Ring instead Of Moh	Enabling this option make callers hear a ringing tone instead of Music on Hold.
CID Name Prefix	You can optionally prefix the caller ID name when ringing extensions in this group, ie: if you prefix with "Sales:",a call from John doe would display as "Sales:John doe" on the extensions that ring.
Alert Info	Alert info can be used for distinctive ring with SIP devices.

3.7.6 Conferences

Conference Calls increase employee efficiency and productivity, and provide a more cost-effective way to hold meetings. Conference agents can dial * to access the settings options and the admin can kick the last user out and can lock the conference room.

Confe	rences						
+ /	Add Conference	× Delete the selected Conferen	ices		1	A A Page 1 of 1	(1 Records) 🕨 🔰
	Room Number	Room Name	User PIN	Admin PIN	Participants	Allow Menu	Options
	740	Conference740		740	Unlimited	OFF	

Conference Number	740	0	
Conference Name	Conference740	0	
User PIN		0	
Admin PIN	740	0	
Room Options			
Join Prompt	None 🗸	0	
Max Participants	Unlimited 🗸	0	
Allow Menu		0	
Music on Hold		0	
Music on Hold Class	calmriver 🗸	0	
Quiet Mode		0	
User Count		0	
User join/leave		0	
Leader Wait		0	

Figure 3.7.6a Conferences Edit/Add

Table 3.7.6a	Description	of Conferences	Edit/Add
--------------	-------------	----------------	----------

Parameters	Description
Conference	This is the number dialed to reach this Conference Room.
Number	
Conference Name	This option defines a name for this conference, e.g. "Sales". "Conference Name" is a label to help you identify this conference in the conference list.
User PIN	Set a PIN that must be entered in order to access this conference room (e.g. 1234).
Admin PIN	Enter a PIN number for the admin user
Join Prompt	Message to be played to the caller before joining the conference.
Max Paticipants	Maximum Number of users allowed to join this conference.
Allow Menu	Present Menu (user or admin) when '*' is received ('send' to menu)
Music on Hold	Enable Music On Hold when the conference has a single

н

	caller.
Muisc on Hold Class	Music (or Commercial) played to the caller while they wait in line for the conference to start.
Quiet Mode	Quiet mode (do not play enter/leave sounds)
User Count	Announce user(s) count on joining conference
User join/leave	Announce user join/leave
Leader Wait	Wait until the conference leader (admin user) arrives before starting the conference.

3.7.7 Callback

PBX allows caller A to dial an inbound route number, and after hearing the ring, A can hang up the call or wait for PBX to cut off the call, then PBX will call A with this number. When A picks up the call, A can dial the number he wants to call; PBX will call the number with its outbound route.

Notes:

1. If you"d like to use callback feature, please make sure it"s enabled on the inbound route setting panel.

2. No callback rules needed to be set if the trunk supports call back with the caller ID directly.

Figure 3.7.7 Callback

Callback			
+ Add Callback	X Delete the selected Callback	i dPage 1	of 1(1 Records) 🕨 🕨
	Callback Description	Callback Number	Options
	callback6001	6001	

Follow the steps below to use this function.

Step 1: Enable Callback.

Inbound Routes—Choose "Yes" on" Enable Callback" to enable this function.

Options			
CID Name Prefix	sales	0	
Signal RINGING		0	
Enable Callback	Callback	0	

Step 2: Create Callback number.

Figure 3.7.7b Callback Edit/Add

Callback Description	callback6001	0	
Callback Number	6001	0	
Delay Before Callback	45	0	

3.8 PBX Advanced Settings

3.8.1 SIP settings

This is the SIP settings in PBX, including General settings, NAT, Codecs, Qos, Response code and Advanced settings.

This section describes how to configure SIP server and SIP parameters

3.8.1.1 General

Figure	3.8.1.1	SIP	General	Setting

Allow Guest 0	No		
Allow Overlap	Yes 🗸		
Pedantic 0	No V		
Alwaysauthreject 0	Yes 🗸		
DNS SRV Look Up	No 🗸		
Register Timers			
Max Registration Time	3600	Min Registration Time 0	60
Default Registration Time 0	120		
Qualify Freq	60	Qualify Gap 0	100
Outbound SIP Registrations			
Register Timeout	20	Register Attempts 0	0
RTP Timers			
RTP Timeout	60	RTP Hold Timeout	300
RTP Keepalive	0		
Status Notifications			
Notify Ringing	Yes 🗸		
Notify Hold	Yes 🗸		
Advance Settings			
Session-timers 0	Accept 🗸	Session-refresher	Uas 🗸
Session-expires	1800	Session-minse	90
DTMF Mode	rfc2833 🗸	Relax DTMF	No 🗸
Trust RPID	No 🗸	Send RPID	No
Contact Deny		Contact Permit 0	
Allow Re-invite	yes 🗸	Trunk Codec Priority 0	Yes 🗸
Get From Field 0	From	Get To Field	INVITE
Enable Prack 0	No 🗸		
Send user=phone 0	No		
User Agent 0			
Custom Settings			

Table 3.8.1.1 Description of SIP General Setting

Parameters	Description
Allowguest	Whether allow anonymous registration extension. Default: no. It's recommended to be disabled for security.
Allowoverlap	Disable overlap dialing support.(Default is yes)
Pedantic	Enable pedantic parameter. Default: no.

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Always authreject	If enabled, when PBX rejects "Register" or "Invite" packets, PBX always respond the packets using "SIP404	
	NOT FOUND". It"s recommended to be enabled for security.	
DNS SRV Look Up	Please enable this option when your SIP trunk contains more than one IP address.	
Maxexpiry	Maximum duration (in seconds) of a SIP registration.Default is 3600 seconds.	
Minexpiry	Minimum duration (in seconds) of a SIP registration. Default is 60 seconds.	
Defaultexpiry	Default Incoming/Outgoing Registration Time: Default duration (in seconds) of incoming/outgoing registration.	
Qualifyfreq	How ofen to check for the host to be up in seconds and reported in milliseconds with sip show settings.	
Qualifygap	Number of milliseconds between each group of peers being qualified.	
Register Timeout	Number of seconds to wait for a response from a SIP registrar before timed out. Default is 20 seconds.	
Register Attempts	The number of SIP REGISTER messages to send to a SIP Registrar before giving up. Default is 0 (no limit).	
RTPtimeout	Terminate call if set # seconds of no RTP or RTCP activity on the audio channel when we"re not on hold.	
RTPholdtimeout	Both ends of the call time	
RTPkeepalive	Time of packaging	
Notifyringing	Control whether subscriptions already INUSE get send RINGING when another call is sent.	
Notifyhold	Notify subscriptions on HOLD state.(default:no)	
Session -timers	Enable session-timer mode, default: yes. If you found the call is cut off every 15 minutes every time, please disable this.	
Session-refresher	Choose session-refresher, the default is Uas	
Session-expires	The max refresh interval	
Session-minse	The min refresh interval, which mustn't be shorter than 90s.	
DTMF mode	Set default mode for sending DTMF. Default setting: rfc2833	
Relaxdtmf	Relax dtmf handing	
Trustrpid	If Remote-Party-ID should be trusted	

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Sendrpid	If Remote-Party-ID should be sent
Contactdeny	Use contactpermit and contactdeny to restrict at what IPs
Contactpermit	your users may register their phones.
Canreinvite	Asterisk by default tries to redirect the RTP media stream to go directly from the caller to the callee.Some devices do not support this (especially if one of them is behind a NAT). The default setting is YES
Audioprefcodec	Once enabled, When the caller call out via SIP/SPS trunks, the audio codec of calling channel whould be selected in preference.
usereqphone	This provider requires, User=phone on URI
User agent	To change the user agent parameter of asterisk, the
	default is "PBX", you can change it if needed.

3.8.1.2 Network

Note: Configuration of this section is required when using remote extensions generally.

SIP Setting			
General Network QOS C	odecs T38		
Enable STUN	No 🗸		
STUN Address		STUN Port	
External IP Address 0		External Refresh Interval 0	
External Host 0			
Local Network			
NAT Mode	yes 🗸		
Transport			
RTP Port Start	8000		
UDP Port	5060		
Enable TCP	Yes 🗸	TCP Port	5060
Enable TLS	No 🗸		
TLS Port	5061		
TLS Verify Server	No 🗸		
TLS Ignore Common Name 0	Yes 🗸		
TLS Client Method	sslv2 🗸		
	100	e 🗙 Cancel	

Figure 3.8.1.2 SIP Network Configuration

Table 3.8.1.2 Description of SIP Network Configuration

Parameters	Description

Enable STUN	STUN (Simple Traversal of UDP through NATs) is a protocol for assisting devices behind a NAT firewall or router with their packet routing.
STUN Address	The STUN server allows clients to find out their public address, the type of NAT they are behind and the internet side port associated by the NAT with a particular local port. This information is used to set up UDP communication between the client and the VOIP provider and so establish a call.
External IP	The IP address that will be associated with outbound SIP
Address	messages if the system is in a NAT environment.
External Refresh Interval	Used to identify the local network using a network number/subnet mask pair when the system is behind a NAT or firewall. Some examples of this are as follows: "192.168.0.0/255.255.0.0": All RFC 1918 addresses are local networks; "10.0.0.0/255.0.0.0": Also RFC1918;
	"172.16.0.0/12":Another RFC1918 with CIDR notation; "169.254.0.0/255.255.0.0": Zero conf local network. Please refer to RFC1918 for more information.
External host	Alternatively you can specify an external host, and the system will perform DNS queries periodically. This setting is only required when your public IP address is not static. It is recommended that a static public IP address is used with this system. Please contact your ISP for more information.
NAT mode	Global NAT configuration for the system; the options for this setting are as follows: Yes = Use NAT. Ignore address information in the SIP/SDP headers and reply to the sender's IP address/port. No = Use NAT mode only according to RFC3581. Never = Never attempt NAT mode or RFC3581 support. Route = Use NAT but do not include report in headers.
RTP Port Start	Beginning of RTP port range
UDP port	Port used for SIP registrations, Default is 5060
TCP port	Port used for SIP registrations, Default is 5060
TLS port	Port used for SIP registrations, Default is 5061
TLS Verify Server	When using PBX as a TLS client, whether or not to verify server"s certificate. It is "No" by default.
TLS Ignore	Set this parameter as "No", then common name must
Common Name	be the same with IP or domain name.

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TLS Verify Client	When using PBX as a TLS server, whether or not to verify client"s certificate. It is "No" by default.
	chefit s tertificate. It is no by default.
TLS Client Method	When using PBX as TLS client, specify the
	protocol for outbound TLS connections. You can select
	it as tlsv1, sslv2 or sslv3.

.

3.8.1.3 Qos

eneral	Network	QOS	Codecs	T38		
Tos SI	P:			CS3 🗸	Cos SIP:	3 🗸
Tos Au	dio:			EF ¥	Cos Audio:	5 🛩
Tos Vid	deo:			AF41 ¥	Cos Video:	4 🗸

Figure 3.8.1.3 Qos

3.8.1.4 Codecs

We can choose the allowed codec in PBX, a codec is a compression or decompression algorithm that used in the transmission of voice packets over a network or the Internet. More information about codec, you can refer to this page: <u>http://en.wikipedia.org/wiki/List_of_codecs</u>

Disable Codecs	Enable Codecs	
mpeg4	g729a ulaw alaw gsm speex 9722 g726 Remove ilbc	Up↑ Down↓
G.729 If you would like to use G.729(Not passthroug License Key	h mode), please enter your license key.	

If you want to use codec G729, we recommend buying a license key and input it here.

3.8.1.5 T.38

Figure 3.8.1.5 T.38

	OS Codecs	T38	
Max Ra		FEC	~

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3.8.2 IAX Setting

IAX is the Internal Asterisk Exchange protocol, you can connect to PBX or register IAX trunk to another IAX server. It' is supported by the asterisk-based IP PBX.

Settings		
delayreject 0	No	
Bind Port	4569	
Band Width 0	low 🗸	
maxregexpire 0	1300	
minregexpire 0	60	
Codec Priority 0	host 🗸	
Codecs		
Disable Codecs		Enable Codecs
speex g722 g726 adpcm g729a ilbc g726aal2 h261 h263 h263p h263p h264 mpeg4	>> → ← ««	ulaw alaw gsm
Custom Audio Settings		
=	•	

Figure 3.8.2 IAX setting

Parameters	Description
Delayreject	Which will delay the sending of authentication reject for
	REGREQ or AUTHREP if there is a password
Bind port	Port used for IAX2 registrations. Default is 4569.
Bandwidth	Low/medium/high with this option you can control
	which codec to be used.
Max Registration	Maximum duration (in seconds) of an IAX2
Time	registration. Default is 1300 seconds.
Min Registration	Minimum duration (in seconds) of an IAX2 registration.
Time	Default is 60 seconds.
Codec priority	Codec priority controls the codec negotiation of an
	inbound IAX call. This option is inherited to all user
	entities
Codec	Enable the codec you want for IAX communication.

3.8.3 PIN Sets

In this page users can manage all the passwords of outbound routes, PIN User, and DISA.

Figure	3.8.3	PIN	sets
--------	-------	-----	------

PIN Sets				
PIN Sets are used record's 'accountor	to manage lists of PINs that can be used to ode' field.	access restricted features such as	Outbound Routes. The PIN can als	o be added to the CDR
+ Add PIN Set	× Delete the selected PIN Sets		M 🖣 Page 1	of 1(1 Records) 🕨 🕨
	PIN Set Name	Record in CDR	PIN List	Options
	test	ON	1234	

Figure 3.8.3a PIN Set Edit

PIN Set			
PIN Set Name	test		
Record in CDR	V	0	
	1234	^	
PIN List		0	
		~	

Table 3.8.3a Description of PIN Set Edit

Parameters	Description
PIN Set Name	A character-based name for this PIN list, e.g. "testPIN"
Record in CDR If set yes, the PIN code will be displayed in call log	
PIN List	PIN list is a numeric field. Letters and punctuation are not
	allowed in this field.
	Fill in one PIN and if you end with enter for each PIN, you could create multiple PINs.

3.8.4 PIN Users

General			
Authentication Retries	3 🗸	0	
Digit Timeout	5 🗸	0	
Join Announcement	None 🗸	0	
Fail Announcement	None 🗸	0	
PIN Users Add PIN User Delete the 9	Save Selected PIN Users	e Cancel	

Figure 3.8.4 PIN Users

Parameters	Description		
Authentication	Number of times to retry when receiving an wrong		
Retries	password.		
Digit Timeout	The maximum amount of time permitted between digits		
	when the user is typing in an extension. Default of 5		
	seconds.		
Join	Waiting for validation, the system will play the prompt.		
Announcement			
Fail Announcement	After validation fails, the system will play the prompt.		

Figure 3.8.4a PIN Users Add/Edit

eneral			
PIN User Name		0	
Password PIN Set None ♥ PIN Sets		0	
Disable Outbou	nd Routes	Enable Outbound Routes	
to151IP_IAX to110ip_sip			
pstn4 pstn6	Add >	Up †	
•	< Remove	Down ↓	
		197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197	

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Parameters Description of PIN Osers Add/Edit		
Parameters	Description	
PIN User Name	A character-based name for this PIN list, e.g. "NEXOPIN"	
	 PBX can store a number of PIN Users. PIN Users may be used to keep track of calls in relation to particular activities or clients. They can also be used to keep track of calls by particular users or sets of users. PINs entered are checked against those stored by the system. If an invalid PIN is entered, the PIN is requested again. The system administrator can configure certain numbers or types of numbers to require entry of a PIN before users can continue making a call to such a number. The system administrator can also configure to require users to enter a PIN before making any external call. 	
Password	The password for this PIN User.	
PIN Set	Click to add, delete or edit PIN list.	
Allow Outbound Routes	PIN User can use those outbound route to make call out.	

Table 3.8.4a Description of PIN Users Add/Edit

3.8.5 DISA

DISA (Direct Inward System Access) allows someone calling in from outside the telephone switch (PBX) to obtain an "internal" system dial tone and make calls as if they were using one of the extensions attached to the telephone switch. To use DISA, a user calls a DISA number, which invokes the DISA application. The DISA application in turn requires the user to enter a PIN number, followed by the pound sign (#). If the PIN number is correct, the user will hear dial tone on which a call may be placed. Obviously, this type of access has serious security implications, and great care must be taken not to compromise your security.

A				
Add DIS	A X Delete the sele	ected DISA	H 🖣 Page 1	of 1(1 Records)
]	DISA Name	Response Timeout	Digit Timeout	Options
]	disa001	10	5	
		Figure 3.8.5 D	ISA Edit	
it DISA - Gener	ral			
DIS	A Name	disa001	0	
Pas	sword	1234	0	
PIN	Set	None 🗸	0	
Res	ponse Timeout	10	0	
Digi	t Timeout	5	0	
Call	er ID	5526333	0	
- Allow	Outbound Routes		Enable Outbound Routes	
	Disable Outbour		_outside	7
		Add > < Remove		Up↑ Down↓

Figure 3.8.5 DISA

💾 Save 🥕 Back

Parameters	Description
DISA Name	Give this DISA application a name to help you identify it.
Password	The password for this DISA.
PIN Set	Optional: select a PIN set to use. If using this option, leave
	the password field blank
Response Timeout	The maximum amount of time the system will wait before hanging up the call if the user has dialed an incomplete or invalid number. The default is 10 seconds.
Digit Timeout	The maximum amount of time permitted between each
	digit when the user is dialing an extension number. The
	default is 5 seconds.
Caller ID	(Optional) When using this DISA, the users CallerID will
	be set to this. Format is "User Name" <5551234>.
Allow Outbound Routes	Used to set the outbound routes that can be accessed from this DISA.

Table 3.8.5 Description of DISA Edit

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3.8.6 Paging and Intercom

Paging is used to make an announcement over the speakerphone to a phone or group of phones. Targeted phones will not ring, but instead answer immediately into speakerphone mode. Please note that this section is for configuring paging groups. If you would like to configure Intercom settings, please open the PBX Basic -> Feature Codes screen.

Note: A paging group can have a maximum of 20 members.

Feature Co This modul always set	odes. e should work with Aastra, C to auto-answer should also	are capable of Paging or Intercom. This Grandstream, Linksys/Sipura, Mitel, Poly work (such as the console extension if co on xxx. *54 : Enable all extensions to in	com, SNOM , and possibly other SIP p onfigured).	hones (not ATAs). Any phone that is
+ Add P	aging Group 🗙 Delete	the selected Paging Group	þ	A Page 1 of 1(1 Records) >
+ Add P	aging Group 🗙 Delete	e the selected Paging Group Description	Extension List	Page 1 of 1(1 Records) Options

Figure 3.8.6 Paging and Intercom

umber	720		0	
escription	720		0	
orce if Busy			0	
uplex			0	
Exter	nsions		Members	
01 <sip> 00 <sip> 05 <sip> 00 <sip> 00 <sip> 03 <sip></sip></sip></sip></sip></sip></sip>		Add > < Remove	102 <sip> 104 <sip></sip></sip>	Up↑ Down↓

Figure 3.8.6a Paging and Intercom Edit/Add

Parameters	Description
Number	Define the numbered extension that may be dialed to reach this group.
Description The description of this paging group.	
Force if Busy	If selected, will not check if the device is in use before paging it.
Duplex	Paging is typically one way for announcements only. Checking this will make paging duplex, allowing all users
	in the group to talk and be heard by all.
Members	Select members in this group.

3.9 Voice Management

3.9.1 System Recordings

We can record or upload the prompts in this page; you can also play it directly to confirm if it's a valid one, you can also download it and save it as a backup. Figure 3.9.1 Voice prompt Recording

/oice Prompt Management						
O Record	New Prompt	\Lambda Upload	A Page 1	of 1(1 Records)		
Index	File Nam	e	Description	Options		
1	default			o o 🗹 🗙		

1. Record New Prompt



• Record	Record New Prompt	×	e
Index 1	File Name Dial Extension: 601 <fxs> to record a new voice prompt</fxs>		ic
	Record Cancel		

The administrator can record custom prompts by doing the following:

1) Click "Record New Custom Prompt".

2) Input the desired file name on the popup window and choose an extension to call for recording (such as vp500).

3) Click "Record". The selected extension will ring and you can pick up the phone to start recording.

2. Upload

Prompt Click

"Upload"

File Name	Browse
Description	~
Description	\sim

Figure 3.9.1b Upload Voice Prompt

- 2) Click "Browse" to choose the desired prompt.
- 3) Click "Save" to upload the selected prompt.

Note: The file size must not be larger than 1.8 MB, and the file must be WAV format.

3.9.2 Music on Hold



Music on Hold				
Add Music Category				
Name	Random Play	Options		
calmriver	ON			
test	OFF			

Figure 3.9.2a Music on Hold Edit

Category Name	calmriver
Random Play	Disable
浏览	Upload
fpm-calm-river.gsm	6
fpm-sunshine.gsm	6
fpm-world-mix.gsm	6

The administrator can upload on hold music as follows:

- 1) Click "Browse" to choose the desired audio file.
- 2) Click "Upload" to upload the selected file.

Note: The file size must not be larger than 1.8 MB, and the file must be WAV format:

GSM 6.10 8 kHz, Mono, 1 Kb/s; Alaw/Ulaw 8 kHz, Mono, 1 Kb/s;

PCM 8 kHz, Mono, 16 Kb/s.

3.9.3 Voicemail Settings

In this page, we can configure some settings for voicemail feature, including general voicemail settings and SMTP settings, which is used for "voicemail to email".

cemail Settings		
Max # of Message Per Folder	50 🗸	
Max # of Login Attempts	3 🗸	
Max Length VM in Sec	5minutes 🗸	
Min Length VM in Sec	3seconds 🗸	
Max Length Greetings in Sec	1minute 🗸	
Review Message	No V	
Email Settings		
From	Voicemail Nexo 450	
Email Subject	New message from \${VM_CALLERID} for \$	
Email Body	Dear \${VM_NAME}:\n\n\tjust wanted to let you know you were just left a \${VM_DUR} long message (number \${VM_MSGNUM})\nin mailbox \${VM_MAILBOX} from \${VM_CALLERID}, on \${VM_DATE}.\n\n	1
Advance Settings		
Play CID	No V	
Play Envelope	No V	3
Say Duration	No V	1
Move Message to Old	Yes 🗸	3
Skip Message Ms	3000	
Direct Dial to Voicemail Message Type	Unavailable 🗸	
Do Not Play "please leave message after tone Caller	" to 🗹	

Figure 3.9.3 Voicemail Setting

Table 3.9.3 Description of Voicemail Setting

Parameters	Description
Max # of Message Per Folder	Set the maximum number of messages that can be stored in a single voicemail box.
Max # of Login Attempts	Max number of failed login attempts
Max Length VM in	Set the maximum length of a single voicemail message.

Sec	
Min Length VM in Sec	Set the minimum length of a single voicemail message. Messages below this threshold will be automatically deleted.
Max Length	Max length of greeting in seconds.
Greetings in Sec	
Review Message	Allow sender to review/record their message before save it(No by default)
From	Email from
Email Subject	Email subject
Email Body	Email body
Play CID	Say the called ID information before the message
Play Envelope	Turn on/off envelope playback before message playback.
Say Duration	Turn on/off the duration information before the message.
Move Message to Old	Move heard messages to the "old" folder automatically
Skip Message Ms	Specifies how many milliseconds to skip forward/back when the user skips forward or backward during message playback.
Direct Dial to Voicemail Message Type	Default message type to use when dialing direct to an extensions voicemail
Do Not Play	Do Not Play "please leave message after tone" to Caller
"please leave	
message after	
tone" to Caller	

3.9.4 System Prompts Settings

Upgrading of the system prompts package is possible through the Administrator Web interface using a TFTP Server or an Upload Enter your TFTP Server IP address and file location, then click start to update the system prompts package

System Pr	ompts Settings			
Upload	TFTP Server			
Local	Prompts	English		
File N	ame		Browse	

Figure 3.9.3 System Prompts Settings Upload

Figure 3.9.3a System Prompts Settings TFTP

stem Pro	ompts Settings		
Jpload	TFTP Server		
Local	Prompts	English	
TFTP	Server		
File Na	ame		

Table 3.9.3 Description of System Prompts Settings

Parameters	Description
File Name	Choose a country voice package,filename must to '.tar.gz' ending.
TFTP Server	Tftp service server.

3.10 System Preferences

3.10.1 Firewall Rules

enera	al								
Statu	IS		Activ	re					
Enab	le Firewall 0		•						
Enab	le Log 🛛		✓	Firewall Logs					
Drop	All O								
				1	Save	Cancel			
ules - Add R	ule Delete t	he selected Rules	5						
	Name	Protocol	IP	Port	M	AC	Target	Sort	Options
	HTTPS	тср		443			ACCEPT	88	
	test	ТСР		123:124			DROP	H J H	
	Ping	ICMP					ACCEPT		
	SIP	UDP		5004:5082			ACCEPT	8938	
	RTP	UDP		8000:20000			ACCEPT		
	DNS	UDP		53			ACCEPT	8988	
	TFTP	UDP		69			ACCEPT	8988	
	SMTP	ТСР		25			ACCEPT	8938	
	POP3	ТСР		110			ACCEPT	8 8 8 8	
	test1	ТСР		80			ACCEPT	a	
<mark>efenc</mark> Add R	1 1	he selected Rules							
		Name		Protocol	IP	Port	Rate	Hit	Options
	S	IP5060H20S		UDP		5060		120/min	
	CT	P5060H120S		UDP		5060		20/sec	

Figure 3.10.1 Firewall Rules

Figure 3.10.1a Firewall Rules Edit/Add

Name	HTTPS	0	
Protocol	тср 🗸	0	
IP) 📃 0	
Port	443	0	
MAC		0	
Target	ACCEPT 🗸	0	

Parameters	Description		
Name	A name for this rule. eg: HTTP.		
Protocol	The protocols for this rule.		
IP	 The IP address for this rule. The format of IP address is:IP/mask Ex:192.168.6.88/32 for ip 192.168.6.88 		
	• Ex:192.168.6.0/24 for ip from 192.168.6.0 to 192.168.6.255		
Port	Initial port should be on the left and end port should be on the right. The port must be equal to or greater than start port.		
MAC	The format of MAC Address is XX:XX:XX:XX:XX:XX, X means 0~9 or A~F in hex, the A~F are not case sensitive.		
Target	 ACCEPT:Accept the access from remote hosts DROP:Drop the access from remote hosts REJECT:Reject the access from remote hosts 		

Table 3.10.1a Description of Firewall Rules

Figure 3.10.1b Firewall Defence Edit/Add

Name	SIP5060H20S	0	
Protocol	UDP 🗸	0	
IP	()	0	
Port	5060 :	0	
Limit Rate	sec	✓ 0	
Limit Hit	120 / 1 min	✓ 0	

Table 3.10.1b Description of Firewall Defence Edit/Add

Parameters	Description
Name A name for this rule. eg: HTTP.	
Protocol	The protocols for this rule.
IP	 The IP address for this rule. The format of IP address is:IP/mask Ex:192.168.6.88/32 for ip 192.168.6.88 Ex:192.168.6.0/24 for ip from

98 - www.centralesnexo.com.ar/soporte/voip/

	192.168.6.0 to 192.168.6.255
Port	Initial port should be on the left and end port should be on the right. The port must be equal to or greater than start port.
Limit Rate	The maximum packets can be handled per unit time. eg:(IP:192.168.6.88/32 Protocol:UDP Rate:10/sec)means maximum 10 UDP packets from 192.168.6.88 can be handled per minute,and drop the redundant packets.
Limit Hit	The maximum connections can be handled per unit time. eg:(Port:8022 Protocol:TCP Hit:10/minute)means maximum 10 TCP connections to port 8022 can be handled per minute,the eleventh connection will be refused directly.

3.10.2 Security Info

Alert Settings, if the device is attacked, the system will notify users the alert via call or E-mail. the attack modes include IP attack and Web Login. Figure 3.10.2 Alert Settings

Alert Settings				
Attack Type	Phone Notification	Email Notification	Option	
IPATTACK	yes	yes		
WEBLOGIN	no	yes		

Figure 3.10.2a Alert Settings Edit

Phone Notification	NO V	0		
Number		0		
Attempts	1 🔻	0		
Interval	60	0		
Prompt	default 🔻	0		
nall Notification Setti Email Notification To	NO T		0	
Email Subject			0	
Email Body	Pbx Host Name: \$(Login Time: \$(DA Login User Name: Attack Src IP: \$(S	FETIME) \$(USERNAME)	0	

Parameters	Description
Phone Notification	Enable phone notification
Number	Multiple extensions and outbound phone numbers could
	be set for alert phone notification. Please separate
	them by ';', e.g. '103;9XXX'.
Attempts	The attempt times to dial a phone number when there is
	no answer.
Interval	The interval between each attempt to dial the phone
	number.Must be greater than 3 seconds.
Prompt	When answered, System will play this prompt.
Email Notification	Enable email notification
То	Multiple email addresses are allowed; please separate
	them by ';', e.g. XXXX@gmail.com; YYYY@hotmail.com.
Email Subject	Email subject
Email Body	Email Body, Until 511 characters

Table 3.10.2a Description of Alert Settings Edit

IP Blacklist, if the device is attacked by IP attack.system will add ip to firewall and Disable this IP access.

Figure 3.10.2b IP Blacklist

IP Blacklist						
× De	elete the selected IP Blacklist					
	Attacked Time	Protocl	Attacked Port	Source IP Address	MAC	Option
			No IP Blacklist Detecte	d		

Table 3.10.2b Description of IP Blacklist

Parameters	Description	
Date	IP Attack time	
Protocol	Attack protocol type	
IP	Attack ip	
MAC Address	Attack MAC address	
Dest Port	Attack destination port	

3.10.3 Firmware update

Upgrading of the firmware is possible through the Administrator Web interface using a TFTP Server or an Upload

Enter your TFTP Server IP address and firmware file location, then click start to update the firmware

Notes:

1. If enabled "Reset configuration to Factory Defaults", System will restore to factory default settings.

2. When update the firmware, please don"t turn off the power. Or the system will get damaged.

load	TFTP Server	
File N	ame	Browse
Reset	to Factory Setting 🏮	

Figure 3.10.3 Firmware Update Upload

Figure 3.10.3a Firmware Update TFTP

irmware U	Jpdate	
Upload	TFTP Server	
TFTP S	Server	
File N	ame	
Reset	to Factory Setting 🗕	

Table 3.10.3 Firmware Update

Parameters	Description
Firmware update	Send package file from your computer to the device
File name	Firmware name, file must to ".img" ending.
Reset to Factory Setting	Reset Configuration to Factory Defaults
Browse	Choose File

3.10.4 Data Backup

We can backup up the configurations before reset PBX to factory defaults

Figure 3.10.4

Data Backup	
	Click this button to reboot the device.
	Backup

Click 'Backup' to download configuration file to your computer. Notes:

1. Only configurations, custom prompts will be backed up.

2. When you have updated the firmware version, it's not recommended to restore using old package.

3.10.5 Data Restore

You can restore this configuration in case the unit loses it for any reason or to clone a unit with the configuration of another unit. The configuration backup configurations are in txt format. Please note that you can use a backup file from an older firmware version and use it in a unit with a more recent firmware version. However, a backup file from a newer firmware version than the one actually in the unit cannot be used for a restore operation on the unit.

Notes:

1. The upload process will last about 30s.

2. When you have updated the firmware version, it's not recommended to restore using old package.

Figure	3.1	0.5
--------	-----	-----

Uploa	ad data file from your com	puter to your device	
	Configuration	Browse	Resto

3.10.6 Password

When using web Configuration, please enter default user name and password. User can modify the login name and password.

Figure 3.10.6 Password Setting

ld Username	adm	in			
Old Password					
New Password			Weak	Medium	Strong
Confirm Password					

3.10.7 Time & Date

The Network Time Protocol (NTP) is a protocol and software implementation for synchronizing the clocks of computer systems over packet-switched, variable-latency data networks.

User need to fill the NTP Server Address and select Time Zone.

Figure 3.10.7 Time & Date parameter

Time Zone	-8 United States - Pacific Time	~
Primary Server	pool.ntp.org	
Secondary Server	pool.ntp.org	
Synchronism (16~86400s)	64	
Daylight Saving Time	Disabled 🗸	
O Manual Time		
Date Time		

Table 3.10.7 Time & Date parameter

Parameters	Description
Time zone	You can choose your time zone here.
Primary server	Primary NTP Server Address

Secondary server	Secondary NTP Server Address
Synchronism	Set the time interval for checking local appliance"s time
	with the server
Daylight Saving Time	Set the mode to Automatic or disabled
Manual Time	Manual setup time

3.10.8 Reset

Be careful do this operation, after restore factory setting, all the parameters will be changed to the factory default.

Figure 3.10.8 factory reset

Reset		
	Reset all the settings of the device to default configurations.	
	Note: You need to restart the settings to take effect	
	Reset	
Reset to Fact	cory Defaults	
Click this but	ton to reset Factory Default settings	

3.10.9 Reboot



Reboot		
	Click this button to reboot the device.	
	Reboot	

Warning: Rebooting the system will terminate all active calls!

3.11 Phone Provisioning

The Phone Provisioning provides users a method to Centralized config IP Phone.

3.11.1 General Settings

ime Server	pool.ntp.org		0	
Time Zone for Aastra Phones	US-Eastern EST		. 0	
Time Zone for Akuvox Phones	-9 United States-Alaska Time		0	
Time Zone for Cisco SPA Phones			0	
	GMT-9:00 (US Alaska Time)			
Time Zone for Cisco 7940/7960 Phones	GMT-9:00 (US Alaska Time)		0	
Time Zone for Fanvil Phones	GMT-9:00 United States-Alaska Time		•	
Time Zone for Grandstream Phones	GMT-9:00 (US Alaska Time)		• •	
Time Zone for Panasonic Phones	GMT-9:00 (US Alaska Time)		•	
Time Zone for Polycom Phones	GMT-9:00 (US Alaska T	lime)	0	
Time Zone for Snom Phones	-9 United States - Alask	a Time	0	
Time Zone for Yealink Phones	GMT-9:00 United States	s-Alaska Time	0	
ylight Saving Time				
Enable	Disable V		0	
Start Time	Month/Day/Hour	Month/Day/Hour	0	
End Time		Month/Day/Hour		
End fille	Month/Day/Hour	Month/Day/Hour	•	
Offset	0	minutes	0	

Figure 3.11.1 General Settings

н

3.11.2 Phones

	gured Phones						
+ /	Add Phone	Delete the	selected Phones				
۵	MAC	IP	Phone Model	Extension	Active	Name	Options
-	25			2 7			
ot Co	onfigured Phone	S (C)					
Q I	Refresh					🖌 🖣 页码	1 / 1(8条记录) 🕨)
	MAC		IP		Phone Model		Options
	000B826C7D0	8	<u>192.168.6.162</u>	Gran	dstream GXP1450 1.0.8	.6	
	000B826C7D0	E	<u>192.168.6.219</u>	Grand	dstream GXP1450 1.0.6.	11	Z
	001565736B8	7	<u>192.168.6.76</u>	Ye	ealink T21P 34.72.0.20		
	001565828AF	A	192.168.6.164	Ye	ealink T19P 31.72.0.75		Z
	00A859D2919	E	192.168.6.72		Fanvil		Z
	0C110500388	С	<u>192.168.6.167</u>	Ak	uvox SP-R53 53.0.3.41		Z
	0C1105026B5	4	<u>192.168.6.160</u>	Ak	uvox SP-R59 59.0.3.41		
	0C110502BFE	8	192.168.6.71	Ak	uvox SP-R50 50.0.3.41		

Figure 3.11.2 Configured Phones



eneral Keys Settings						
ieneral						
Active			0			
Name			0			
MAC	000B	000B826C7D08		0		
Manufacturer	Grand	istream 🔻	0			
Phone Type	GXP14	450 🔻	0			
Network Parameters			0			
Use Phone's Set	ting					
Oynamic(DHCP)						
Static IP Addres	s					
IP Address						
Subnet Mask						
Gateway						
DNS						
Auto Answer			0			
Call Waiting			0			
Key As Send	#	•	0			
ccount						
Line E	xtension	Label		Display Name	Active	
Line1	100 •					
Line2	100 •					

3.12 Reports

3.12.1 CDR Report

The call log captures all call details, including call time, caller number, callee number, call type, call duration, etc. An administrator can search and filter call data by call date, caller/callee, trunk, duration, billing duration, status, or communication type.

X Delete the record	15	/ Hide Filte	er 🖸 Down	load the records	5		I¶ ¶ Page 1	of 5 (96 Red	lorus)
tart Date 0	30 Jul	2015		Source	0		Call Di	rection All	~
nd Date 🔍	31 Jul	2015		Destinat	tion 0		Status	0 All	~
inimum Duration				Maximu	m Duration				
								C	Search
Date		Source	Destination	Src. Trunk	Account Code	Dst. Trunk	Call Direction	Status	Duration
2015-07-30 16:26	:27	100	601				Internal	ANSWERED	3s
2015-07-30 16:26	:11	100	601				Internal	ANSWERED	2s
2015-07-30 16:26	:01	100	601				Internal	ANSWERED	4s
2015-07-30 16:25	:53	100	601				Internal	ANSWERED	2s
2015-07-30 16:24	:33	100	601				Internal	ANSWERED	3s
2015-07-30 16:24	:26	100	601				Internal	ANSWERED	1s
2015-07-30 16:24	:18	100	601				Internal	ANSWERED	3s
2015-07-30 16:23	:57	100	601				Internal	ANSWERED	3s
2015-07-30 16:05	:21	100	#100				Internal	ANSWERED	8s
2015-07-30 15:53	:17	100	102				Internal	ANSWERED	7s
2015-07-30 15:53	.10	100	102				Internal	ANSWERED	1s

Figure 3.12.1 CDR Report

Table 3.12.1 CDR Report

Parameters	Description
Date	start and end time of calls
Source	Call number
Destination	Called number
Src channel	Source channel
Dst channel	Destination channel
Call direction	IP to GSM:
	outbound calls from softswitch/IPPBX to mobile network GSM to IP:
	incoming calls from mobile network to IPPBX/Softswitch
Status	Answered: the call was established successful Canceled: the call was canceled by calling party No Carrier: the call was rejected by mobile network Not Answered: no body to answer the call Busy: user busy
Duration	Call duration of the call.

3.12.2 System Logs

Syslog is a standard for network device data logging. It allows separation of the software that generates messages from the system that stores them and the software that reports and analyzes them. It also provides devices which would otherwise be unable to communicate a means to notify administrators of problems or performance. There are 6 levels of syslog, including DEBUG, NOTICE, WARNING and ERROR, EMERG, ALERT, CRIT, INFO.

Export System Log	• Local () Server	
Log File Size	1M V	
Log File Count	4 🗸	
Export		
Syslog Level 0	ERROR V	
Note: Purports	to take effect, you need to restart the device.	
	💾 Save 🗙 Cancel	

g	Local Server
Export System Log	U Local @ Server
Server Address	
Server Port	
Syslog Level	ERROR V

Table 3.12.2 Description of System logs

X Cancel

💾 Save

Parameters	Description	
Export System Log	Local: save log in local	
	Server: save log in server	
Log File Size	Max size before rotation	
Log File Count	Rotated logs to keep (default: 4)	

Syslog level	Syslog Level
Server Address	Server address
Server Port	Server port

3.12.3 Firewall Logs

Figure	3.12.3	Firewall	logs
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Delete the Records 🍸 Sho	w Filter 🚺 💁 Down	load the Records	rewall Rules	i Page 1	of 16 (304 R	ecords) 🕨
Date	Protocol	IP	MAC 4	Address	Dst Port	Options
2016-03-02 14:34:13	udp	192.168.6.45	FC:AA:14	:BC:D0:A5	137	×
2016-03-02 14:34:12	udp	192.168.6.45	FC:AA:14	:BC:D0:A5	137	×
2016-03-02 14:34:12	udp	192,168,6,45	FC:AA:14	:BC:D0:A5	137	
2016-03-02 14:34:11	udp	192.168.6.45	FC:AA:14	:BC:D0:A5	137	×
2016-03-02 14:34:10	udp	192.168.6.45	FC:AA:14	:BC:D0:A5	137	×
2016-03-02 14:34:09	udp	192.168.6.45	FC:AA:14	:BC:D0:A5	137	×
2016-03-02 14:33:51	udp	192.168.6.45	FC:AA:14	:BC:D0:A5	5060	×
2016-03-02 14:33:51	udp	192.168.6.45	FC:AA:14	:BC:D0:A5	5060	\mathbf{x}
2016-03-02 14:33:43	udp	192.168.6.45	FC:AA:14	:BC:D0:A5	5060	×
2016-03-02 14:33:43	udp	192.168.6.45	FC:AA:14	:BC:D0:A5	5060	×

Table 3.12.3 Description of Firewall logs

Parameters	Description
Date	IP Attack time
Protocol	Attack protocol type
IP	Attack ip
MAC Address	Attack MAC address
Dest Port	Attack destination port

3.12.4 Trace Logs

Figure 3.12.4	DAHDI	Monitor	Tool
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AHDI Monitor Tool	
Status	Monitor Stopped
Trunk	pstn1 🔻

н

Parameters	Description
Status	Display recording status of using this tool.
Trunk	Choose a Trunk to record.
Start	Start recording
Stop	Stop and download recordfile
Reset	Reset recording and Cancel the recording file

Table 3.12.4 Description of DAHDI Monitor Tool



sterisk Logs		
Enable Log		
Log File Size	2M 🔻	
Log File Count	8 🔻	
Export		
Log Level	☑Error ☑Warning	✓Notice
	✓Verbose 10 ▼	
	✓Debug	
	Enable SIP Debug	IP:
	Enable RTP Debug	IP:

Table 3.12.4a Description of Asterisk Logs

Parameters	Description
Enable Log	Enable record asterisk log
Log File Size	Log file size
Log File Count	Rotated logs to keep (default: 8)
Log Level	Asterisk log level
Enable SIP Debug	Enable and set IP to enable sip debug
Enable RTP Debug	Enable and set IP to enable rtp debug

н

3.13 System tools

3.13.1 SMTP Parameter

To send the SMS or system alert to email address, please configure the Email settings first, and make sure SMTP test is successful.

Figure 3.13.1 SMTP Parameters

TP Parameters		
Username 0	nexoippbx@mail123.com	Ex. example@domain.com
Password 0	•••••	
SMTP Server	smtp.mail123.com	SSL Port 25
	If the server supports,	use STARTTLS encrypted transmission (T)
Test E-mail 0		E-mail Me
	💾 Save 🗙	Cancel

Table 3.13.1 SMTP Parameters

Parameters	Description
Username	The E-mail Address that PBX will use to send voice mail.
Password	The password for the email address used above
SMTP Server	The IP address or hostname of an SMTP server that the
	PBX will connect to in order to send voice mail messages
	via email, i.e.mail.yourcompany.com.
SSL	If the server of sending email needs to authenticate the sender, you need to enable this.
	Note: Must be selected for Gmail or exchange server.
Port	SMTP Port: the default value is 25.
Use SSL/TLS to	If the server of sending email needs to authenticate the
send secure	sender, you need to enable this.
message to server	Note: Must be selected for Gmail or exchange server.

3.13.2 AMI Settings

The Asterisk Manager Interface(AMI) is a socket interface that you can use to get configuration and status information, request actions to be performed, and be notified about things happening to calls.

Enabled AMI				0
User Name	admin			0
Password	password			0
P Restriction				
Permit 'IP address/Subnet mask		1	0	

Table 3.13.2 Description of SMTP Parameters

Parameters	Description
Enable AMI	Enable AMI setttins.
	The Asterisk Manager Interface(AMI) is a socket interface that you can use to get configuration and status information, request actions to be performed, and be notified about things happening to calls.
Username	AMI user name, default "admin"
Password	AMI password, default "password"
IP Restriction	Set IP address and subnet mask that can connect to AMI

3.13.3 Ping

Figure 3.13.3 Ping	Figure	3.13.3	Ping
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Destination	192.168.6.93	LAN Y Start	4
64 bytes from 192. 64 bytes from 192. 64 bytes from 192. 64 bytes from 192. 64 bytes from 192. 192.168.6.93 p 4 packets transmitt	(192.168.6.93): 56 data bytes 168.6.93: seq=0 ttl=64 time=1.017 ms 168.6.93: seq=1 ttl=64 time=0.526 ms 168.6.93: seq=2 ttl=64 time=0.462 ms 168.6.93: seq=3 ttl=64 time=1.065 ms ing statistics red, 4 packets received, 0% packet loss /max = 0.462/0.767/1.065 ms	^	
		~	

3.13.4 Tracert



ert Test		
Destination	192.168.6.93	LAN 💙 Start
packets	to 192.168.6.93: 92.168.6.93 (192.168.6.93), 3.843 ms 0.243 ms 0.238 m	/te

.

3.13.5 Packet Capture

Figure	3.13.5	Packet	Capture
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Status	Packet Capture Stopped
Interface	LAN 🗸
Source	
Destination	
Port	
Protocol	TCP UDP RTP RTCP ICMP ARP

Table 3.13.5 Description of Packet Capture

Parameters	Description			
Status	Packet capture status			
Interface	Choose network interface, LAN/WAN			
Souce	Capture souce Address			
Destination	Capture destination Address			
Port	Capture port			
Protocol	Capture protocol			

.

3.13.6 Text to Wav

PBX can Transfer text to wav.

Figure 3.13.6 Text to wav	
---------------------------	--

Format	💿 wav 🔿 gsm	
Text to Convert		
Not	e: Text can not be longer than 80 characters	

3.13.7 Certificates

PBX can support TLS trunk. Before you register TLS trunk to PBX, you should upload certificates first.

Figure 3.13.7 Certificates

Upload					
Index	Filename	Туре	Issued To	Expiration	Operation

Note: After a successful upload server certificate, please reboot the device to take effect.

Trusted Certificate

This certificate is a CA certificate. When selecting "TLS Verify Client" as "Yes", you should upload a CA. The relevant IP PBX should also have this certificate.

Gateway Certificate

This certificate is server certificate. No matter selecting "TLS Verify Client" as "Yes" or "NO", you should upload this certificate to PBX. If IP PBX enables "TLS Verify server", you should also upload this certificate on IP PBX.