

Version 10.16.0.85

Yeastar Technology Co., Ltd.



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1. Introduction

MyPBX Enterprise—IP-PBX for Medium Businesses

MyPBX Enterprise is a standalone embedded hybrid PBX for medium businesses and remote branch offices of larger organizations (1-300 users per site). MyPBX also offers a hybrid solution (a combination of VoIP applications using legacy telecom equipment) alternative for enterprises who are not yet ready to migrate to a complete VoIP solution.

Applications

1.1 Features

Auto-provision	• Firewalls
Blind Transfer	• Follow me
BLF Support	Interactive Voice Response (IVR)
• Blacklist	Intercom / Zone Intercom
Call Detail Records(CDR)	Music On Hold
Call Forward	Music On Transfer
Call Parking	Paging / Zone Paging
Call Recording	PIN Users
Call Pickup	• Queue
Call Routing	• QOS
Call Transfer	Ring Group
Call Waiting	Route by Caller ID
Caller ID	Skype Integration (Skype Connect)
Call Back	Three-way Calling
Conference	 Mobility Extension
SMS to Mail	External Storage
Mail to SMS	• DDNS
Speed Dial	OpenVPN
Define Office Time	• T.38
Direct Inward System Access(DISA)	Voicemail
• DIDs	• VLAN
Distinctive Ringtone	• WAN
• Do Not Disturb(DND)	• PPPoE
Auto Recording	Multi-Language
Optional Hard disk	



1.2 Hardware Specifications

1.2.1 Exterior Appearance

Front Side

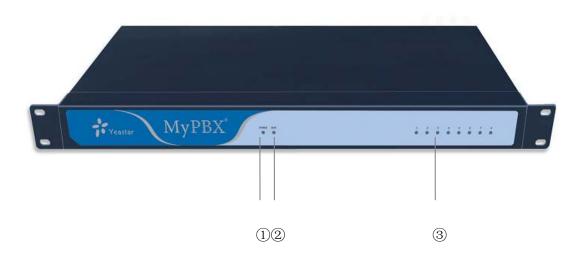


Figure 1-2 MyPBX Pro Front Panel Picture

No.	Identifying
1	Green LED: Indicates correct power is being supplied to the unit
2	Green LED: Indicates the MyPBX Enterprise is fully functional.
3	Red LED: Indicates presence of an FXO/GSM port.
	Orange LED: Indicates presence of a BRI port.
	Green LED: Indicates presence of an FXS port.
	LED Blinking- Red blinking: No connection between FXO port and
	PSTN or no SIM card inside the GSM/UMTS modules
	LED Alternating - Red and Green (slow blink): FXO port is receiving
	an incoming call.
	LED Alternating - Red and Green (fast blink): FXO port, GSM/UMTS
	channel is in use
	LED Dual - Green and Red (slow blink): FXS port is ringing
	LED Dual - Green and Red (fast blink): FXS port is in use or
	GSM/UMTS port is in use



2. System set up

2.1 Connection Drawing

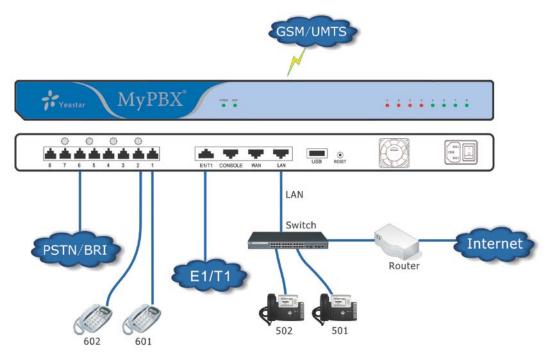


Figure 2-1

2.2 Connecting Ethernet Line

MyPBX Enterprise provides a 1000M LAM port and a 100M WAN port with RJ45 interfaces and LED indicator. Plug Ethernet line into MyPBX's Ethernet port, and then connect the other end of the Ethernet line with a hub, switch, router, LAN or WAN. Once connected, check the status of the LED indicator. A yellow LED indicates the port is in the connection process, and a green LED indicates the port is properly connected.

2.3 Supplying Power

Please follow the steps below to connect the MyPBX unit to a power outlet:

 Connect the small end of the power cable to the power input port on the MyPBX back panel, and plug the other end of the cable into a 100V~240V AC power outlet.



2. Check the Power LED on the front panel. A solid green LED indicates that power is being supplied correctly.

Note:

- 1. Power off MyPBX before exchanging modules and SIM cards
- 2. Never connect two FXS ports on MyPBX with telephone line.
- 3. Never connect PSTN line to the FXS ports on MyPBX.
- 4. Never connect FXS ports of MyPBX to any FXS ports of other device.
- 5. Never touch any chips on the mainboard of MyPBX.
- 6. Please use the original AC adapter.
- 7. Never insert or detach the serial line when the power is on.



3. Managing MyPBX

3.1 Administrator Login

From your web browser, input the IP address of the MyPBX server. If this is the first time you are configuring MyPBX, please use the default settings below:

IP Address: http://192.168.5.150 Username: admin Password: password

a http://192.168.5.186/ -	Microsoft Internet Explorer
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites	
	🔹 🏠 🔎 Search 👷 Favorites 🤣 🔗 - 📚 🚍
Address 🕘 http://192.168.5.18	6/
MyPBX	Embedded Hybrid IP-PBX for Small Businesses
	MyPBX Configuration Panel
Yeastar	User Login
	Her Marco
	User Name:
	Password: Language: English
	Language: English 💌
	Login Reset
🙆 Done	🖉 Internet

Figure 3-1



3.2 Status Monitor

3.2.1 Line Status

MyPBX	Embedded Hybrid IP-PBX I							Log
tatus Monitor 🔹	Line Status 🌣							
ine Statud		Tree		Extensions	~	4		
lasic 🛞	E.	Sec. 1	Busy	Hold	Unavailable	ar Ringing		
Extensions	20. 200/000	3 564/PIDI		120 202/0100	-	202/0101		
Outbound Routes	> <u>300(</u> SIP)	301(SIP)		2 302(SIP)	4	303(SIP)	304(SIP)	
Phone Provisioning	2 305(SIP)	27 601(FXS)		2 602(FXS)				
bound Call Control 🉁				Trunks				
VR Queues	Status	Signal	Trunk Name	Туре	User Name	Port/Hostname/IP	Reachability	
Custom Prompts	Registered	- 10	test	SIP	6088	192.168.5.101	Unknown	1
Ring Groups	Registered		test01	SIP	5009	192.168.5.101	Unknown	
nbound Routes Backlist	OK (2 ms)		SPS4139	SP-SIP		192.168.4.139	OK (2 ms)	1
stacktist	Unreachable		SPS5137	SP-SIP		192.168.5.137	UNREACHABLE	
ternal Settings 🛞	OK (2 ms)		SPS5138	SP-SIP		192.168.5.138	OK (2 ms)	1
Options	OK (3 ms)		SPS5139	SP-SIP		192.168.5.139	OK (3 ms)	
Business Hours Feature Codes	Disconnected		pstn5	FXO		Port 5		
SIP Settings	Disconnected		pstn6	FXO		Port 6		
AX Settings	Failed	Please Insert SIM Card	UMTS3	UMTS		Port 3		
/oicemail Settings	Disconnected		BriTrunk7	BRI		Port 7		
SMS Settings	Disconnected		BriTrunk8	BRI		Port 8		
ISA onferences	Туре		-	Connect			larm	
Paging Groups	E1			a			•	

Figure 3.2.1

MyPBX Status Description:

Extensions:

- 1) *: Extension is unregistered
- 2) 💐 : Extension is idle
- 3) $\mathbf{3}$: Extension is ringing
- 4) $\overline{\mathbf{a}}$: Extension is busy in a call
- 5) **(**): Extension is on hold

Trunks:

VOIP Trunk:

Status

Unregistered: Trunk registration failed. Registered: Succeed registration, trunk is ready for use. Request Send: Registering. Waiting: Waiting for authentication.

FXO Trunk:



Status

Idle: The port is idle. Busy: The port is in use. Disconnected: The port hasn't connected the PSTN line.

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

GSM Trunk:

Status

Idle: The port is idle.

Busy: The port is in use.

Signal

Y : No signal.

Υ : Poor.

Y₁ : Average.

Yul : Good.

Yull: Excellent.

BRI Trunk:

Status

Ok: The ports connect correctly.

Disconnected: The port hasn't connected the PSTN line.

Service Provider:

Status

Registered: Succeed registration, trunk is ready for use. Failed: Trunk registration failed.

E1 Trunk:

Connect	Alarm	Comment
۲	-	The port hasn't connected the E1 line.
-	•	E1 line has connected, PRI is in corresponding or can't communicate.
۹	۲	Succeed.

3.3 Basic

3.3.1 Extension

Extension has two types: Analog extensions (FXS) and VOIP extensions (SIP extension or IAX extension).



<u>File Edit View Favorites</u>		att odsmesses - Micro	osoft Internet Explorer			
Ġ Back 🔹 📀 - 💌	🔁 🏠 🔎 Se	earch 🤶 Favorites 🤞	3 🎓 🌺 🖃			
Address 🕘 http://192.168.5.1	.86/cgi/WebCGI?1000					✓ → Go 链接
MyPBX	Embedded H	Hybrid IP-PBX for	Small Businesses			Logout
Status Monitor 🔹	Extension	φ				
Line Status				Extension List		
Basic 🙁	FXS Extension	ons				
Extensions	Port	Extension	Full Name	Caller ID		
Trunks	3	601	601	601	🔊 Edit 🗴 Delete	
Outbound Routes	4	602	602	602	🔊 Edit 🗴 Delete	
Auto Provision	5	603	603	603	🔊 Edit 🗴 Delete	
Inbound Call Control \land	VoIP Extensi	ions				
IVR	+ Create Ne	ew Extension 🛛 🐴 Add I	Multiple Extensions 🛛 🔊 Modify Se	lected Extensions 🗴 Delete Select	ed Extensions	
Queues Custom Promots		Extension	Type Full Nan	ne Caller ID		
Gueues Custom Prompts Ring Groups		Extension 500	Type Full Nan SIP 500	ne Caller ID 500	🕅 Edit 🗴 Delete	
Custom Prompts Ring Groups Inbound Routes			21		∑ Edit X Delete S Edit X Delete	
Custom Prompts Ring Groups		500	SIP 500	500		
Custom Prompts Ring Groups Inbound Routes		500 501	SIP 500 SIP 501	500 501	😵 Edit 🗴 Delete	
Custom Prompts Ring Groups Inbound Routes Blacklist Internal Settings Options		500 501 502	SIP 500 SIP 501 SIP 502	500 501 502	Sin Edit ✓ Delete ✓ Delete	
Custom Prompts Ring Groups Inbound Routes Blacklist Internal Settings Options Business Hours		500 501 502 503	SIP 500 SIP 501 SIP 502 SIP 503	500 501 502 503	Si Edit Si Edit Si Edit Si Edit Si Edit Si Delete Si Delete	
Custom Prompts Ring Groups Inbound Routes Blacklist Internal Settings Options Business Hours Feature Codes		500 501 502 503 504	SIP 500 SIP 501 SIP 502 SIP 503 SIP 504	500 501 502 503 504	Sedit X Delete Delete X Delete Edit X Delete Edit X Delete Edit X Delete	
Custom Prompts Ring Groups Inbound Routes Blacklist Internal Settings Options Business Hours		500 501 502 503 504	SIP 500 SIP 501 SIP 502 SIP 503 SIP 504	500 501 502 503 504	Sedit X Delete Delete X Delete Edit X Delete Edit X Delete Edit X Delete	
Custom Prompts Ring Groups Inbound Routes Blacklist Internal Settings Options Business Hours Feature Codes SIP Settings		500 501 502 503 504	SIP 500 SIP 501 SIP 502 SIP 503 SIP 504	500 501 502 503 504	Sedit X Delete Delete X Delete Edit X Delete Edit X Delete Edit X Delete	

Figure 3.3.1

3.3.1.1 Analog Extensions (FXS)

Edit Analog Extensions

On the administration page of FXS extensions, click 'Edit' on the extension that you want to edit, and modify the following information on the popup window

1) General

Extension

The numbered extension, i.e. 6001, that will be associated with this particular User / Phone.

Port

The extension correspond port.

Name

A character-based name for this user, i.e. 'Bob Jones' .

·Caller ID

The Caller ID (CID) string will be used when this user calls another internal user.

2) Voicemail

·Enable Voicemail

Check this box if the user should have a voicemail account.



Voicemail Access PIN

Voicemail Password for this extension, i.e. '1234' .

3) Mail Setting

•Enable Send Voicemail

Once enabled, the voicemail will be sending to below email address as an attachment.

Send Voicemail to Email Address

This option defines whether or not voicemails/Fax is sent to the Email address as an attachment.

Note: Please ensure that all voicemail settings are properly configured on the System Settings -> Voicemail Settings page before using this feature.

4) Flash

Hook Flash Detection

Sets the amount of time, in milliseconds, that must pass since the last hook-flash event received by MyPBX before it will recognize a second event. If a second event occurs in less time than defined by Hook Flash Detection, then MyPBX will ignore the event. The default value of Flash is 1000 ms, and it can be configured in 1ms increments.

5) Group

·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 (default *4).

Note: *4 is the default setting, it can be changed under Feature Codes -> General -> Call Pickup.

6) Follow me (Call Forwarding)

This function sets inbound call forwarding on an extension. An administrator can configure Follow Me for this extension.

7) Other Options

·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.

·User Web Interface

Check this option to allow the user to login to the MyPBX User Web interface, which can be used to access voicemail and extension recordings. Users may login to the MyPBX User Web interface by using their extension number and



voicemail PIN # as the login and password respectively.

·DND

Don't Disturb.

·Ring Out

Check this option if you want to custom the ring time. Tone will stop over the time defined.

8) Volume Settings

Rxgain: The Volume sent to FXS extension. Txgain: The Volume sent out by the FXS extension.

9) Mobility Extension

MyPBX allows you to use your mobile phone as extension. If you set your mobile phone as mobility extension and then you call MyPBX with this mobility phone, you will hear a dial tone. MyPBX will recognize your call as a call from an extension. You can dial the number of other extensions (Your caller ID will be the number of your extension) and use all outbound route that your extension can use of MyPBX.

Mobility Extension Number

Don't forget to add the dial patterns of the outbound route at the beginning of your mobile phone number when you fill in the mobility extension number filed. E.g. if you want to set "15960XXXXXX" as mobile extension, and the dial pattern of the outbound route is "9"; you should set "915960XXXXXX" here.

Note: If callback is enabled in the inbound route, the mobility extension function of this inbound route will be disabled.

10) Spy Settings

MyPBX 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' page for more information.

spy modes

There are 3 spy modes available for choice: Normal 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

Note: for example, if 500 want to monitor extension 501, we need to enable the 'allow being spied ' for 501, and choose the spy mode for extension 500.



Then pick up 500 and dial "feature codes + 501" to start monitoring when 501 is in a call.

Edit Extension - 601	Х
General Port: 1 Extension ¹ : 601 Caller ID ¹ : 601	
Voicemail Image: Second state of the second state of th	
Mail Setting Enable Send Voicemail Email Address Note: Please ensure that the section 'SMTP Settings for Voicemail'(in the 'Voicemail Settings') have been properly configured before using this feature.	
Flash Hook Flash Detection ①: 1000 ms	
Group Pickup Group	
Follow me Image: Always Follow me: Image: No answer Transfer to: Image: Number Image: When Busy Image: Number	
Other Options Call Waiting DND Control DND	
Volume Settings Rxgain 1: 40% Txgain 2: 40% Txgain 2: 40%	
Mobility Extension Mobility Extension Number Enable Mobility Extension Mobility Extension Number	
Spy Settings	

Figure 3.3.1.1

3.3.1.2 VOIP Extension

A VOIP extension is a SIP/IAX Account that allows an IP Phone or an IP Soft-Phone client to register on MyPBX.

1. Add VOIP Extension

Go to Extensions \rightarrow VOIP Extensions \rightarrow Create New Extension



1) General

∙Туре

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, i.e. 1234, that will be associated with this particular User / Phone.

·Password

The password for this extension, Ex: '12t3f6'

Name

A character-based name for this user, EX: 'Bob Jones'

·Caller ID

The Caller ID will be used when this user calls another internal extension.

2) Voicemail

·Enable Voicemail

Check this box if the user should have a voicemail account.

·Voicemail Access PIN

The voicemail Password for this extension, i.e. '1234' .

3) Mail Setting

This option defines whether or not voicemails or faxes are sent to an Email Address as attachment.

•Enable Send Voicemail

Once enabled, the voicemail will be sent to email as an attachment.

·Email Address

Email address used to receive the voicemail or Fax.

Note: Please ensure that the section 'SMTP Settings For Voicemail'(in the 'Voicemail Settings') have been properly configured before using this feature.

4) Group

·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 (default is *4).



Note: *4 is the default setting, it can be changed under Feature Codes -> General -> Call Pickup.

5) Follow me (Call Forwarding)

Call forwarding for an extension can be configured here. The administrator can configure Follow Me option for this extension. If you want to transfer the call to an outbound number, please follow the dial pattern of outbound route filled in the outbound number.

For example: transferring to your mobile phone number 123456789, the dial pattern of outbound route is '9.', you should fill in 9123456789 here.

6) Other Options

.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. The call waiting function of IP phone has higher priority than MyPBX's call waiting function.

.DND

Don't Disturb. When DND is enabled for an extension, the extension will be not available.

.User Web Interface

Check this option to allow the user to login to the MyPBX User Web interface, which can be used to check voicemail and extension recordings. Users may login to MyPBX User Web interface by using their extension number and voicemail PIN # as the login and password respectively.

.Ring Out

Check this option if you want to customize the ring time. Ring tone will stop over the time defined.

7) VoIP Settings

·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.

·Enable SRTP

Enable extension for SRTP (RTP Encryption).

Qualify

Send check alive packets to IP phones



·SIP Transport

This will be the transport method used by the extension. The options are UDP (default) or TCP or TLS.

•DTMF Mode – RFC2833, Info, Inband, Auto.

8) IP Restriction

•Enable IP Restriction

Check this option to enhance the VoIP security for MyPBX. If this option is enabled, only the permitted IP/Subnet mask will be able to register this extension number. In this way, the VoIP security will be enhanced.

Permitted 'IP address/Subnet mask'

The input format should be 'IP address'+'/'+'Subnet mask'. e.g."192.168.5.100/255.255.255.255" means only the device whose IP address is 192.168.5.100 is allowed to register this extension number. e.g."192.168.5.0/255.255.255.0" means only the device whose IP address is 192.168.5.XXX is allowed to register this extension number.

9) Mobility Extension

MyPBX allows you to use your mobile phone as extension. If you set your mobile phone as mobility extension and then you call MyPBX with this mobility phone, you will hear a dial tone. MyPBX will recognize your call as a call from an extension. You can dial other extension numbers (Your caller ID will be the number of your extension) and dial out using all outbound route that your extension can use on MyPBX.

Mobility Extension Number

Don't forget to add the dial patterns of the outbound route at the beginning of your mobile phone number when you fill in the mobility extension number filed. E.g. if you want to set "15960XXXXXX" as mobile extension, and the dial pattern of the outbound route is "9"; you should set "915960XXXXXX" here.

Note: If callback is enabled on the inbound route, the mobility extension function of this inbound route will be disabled.



Extension - 500	
General Type: Sℙ Name ⁽¹⁾ : 500	
Voicemail	email 🛈 Voicemail Access PIN #01: 500
	: sure that the section 'SMTP Settings for Voicemail'(in the 'Voicemail Settings')
have been proper Group Pickup Group	ly configured before using this feature.
Follow me Follow me:	Always ✓ No answer Transfer to:
Other Options	Image: Normal Sterror Image: Number Image: Normal Steror Image: Number
Spy Settings	Allow Being Spied Spy Modes:
Optional Setting	gs ☆
VoIP Settings NATU: Transport: UDP	Enable SRTP ^① : □ Qualify: ▼ DTMF Mode ^① : RFC2833 ▼
Permitted 'IP add Permitted 'IP add	Iress/Subnet mask' 1 ①: Iress/Subnet mask' 2 ①: Iress/Subnet mask' 3 ①: Iress/Subnet mask' 4 ①:
Enable Mobil	ity Extension Mobility Extension Number 🛈 :
	Save X Cancel

Figure 3.3.1.2



2. Add Multiple Extensions

Go to Extensions \rightarrow VOIP Extensions \rightarrow Add Multiple Extensions.

- 1) Choose the number of extensions that you would like to create.
- 2) Choose the type of extension that you would like to create.
- 3) Fill in the starting extension number.

Add Multiple Extensions	x
Create 5 💌 SIP 💌 extensions starting from: 506	
Tip: After pressing the 'Create Extensions' button, you may use the 'Modify Selected Extensions' button to modify the properties for these extensions.	
Create Extensions	

Figure 3.3.1.3

3. Edit VOIP Extension

Click 'Edit' on VOIP Extension administration page or click 'Modify Selected Extensions' to edit extension.

3.3.2 Trunk

There are six types of trunks: E1/T1 trunks, Analog trunks (FXO), GSM Trunk, BRI Trunk, VoIP Trunk and Service Provider trunks.



My PBX	Embedded Hybrid IP-	PBX for Your Busine:	sses					Logout
Status Monitor	🕨 Manage Trunks	φ						
Status Monitor 🄇	Digital Trunk			Tr	unk List	t,		
Basic 🙁	Lode Type	Signaling		Echo Cancell	ation		Echo Training	
Extensions	E1	PRI-CPE		Off			16m <i>s</i>	No Edit
<u>Trunks</u> Outbound Routes	BRI Trunk							
Auto Provision		Irunk Name			Port			
Inbound Call Control		BriTrunk1			1		🔊 Edi t	
IVR		BriTrunk2			2		S Edit	
Queues Custom Prompts	Analog Trunk							
Custom frompts Ring Groups		Trunk Name			Port			
Inbound Routes		pstn3		3		R Edit		
Blacklist		pstn4			4		S Edi t	
Internal Settings 📚	GSM/UNITS Trunk							-
Options	[_		
Business Hours Feature Codes		Irunk Name UMTS5		Port 5		Type UMTS		****
SIP Settings		GSM7		5		GSM		Edit
IAX Settings		05001				0.5%	2	Edit
Voicemail Settings SMS Settings	▶ VoIP Trunk							
DISA	💠 New VoIP Trunk							
Conferencing	Provider	Name Type	¢.	Hostname/IP	Us	er Name		
Paging Groups PIN User Settings	105	SIP		192.168.5.169		105	🔊 Edit	🗶 Delete
Callback Settings	Service Provide							
Speed Dial Settings	🛊 Create New Service	Provider						
Music On Hold Prompts								
Network Settings 🙁		er Name	Туре		ame/IP			
LAN Settings	192.168		SIP		8.5.194			Delete
WAN Settings Firewall	192.16	8.5.99	SIP	192.1	68.5.99		🔊 Edit 🗴	Delete
DHCP Server								

Figure 3.3.2

3.3.2.1 Digital Trunk

1. Edit Digital Trunk

On the Digital Trunk administration page, click 'Edit' on the selected trunk and modify its properties in the popup window:

1) General

Signaling

PRI-NET, PRI-CPE, MFC/R2, SS7

•Mode Type

E1 / T1 / J1

·Switch Type

national: National ISDN type2 (common in the US) ni1: National ISDN type 1 dms100: Nortel DMS100 4ess: AT&T 4ESS 5ess: Lucent 5ESS euroisdn: EuroISDN qsig: Minimalistic protocol to build a "network" with two or more PBX of different vendors!



·PRI Dial Plan

Sets an option required for some (rare) switches that require a dial plan parameter to be passed. This option is ignored by most PRI switches. It may be necessary on a few pieces of hardware. This option can almost always be left unchanged from the default.

Reset interval

The interval (seconds) of restart of unused channels. Some PBXs don't like channel restarts. so set the interval to a very long interval e.g. 100000000 or 'never' to disable *entirely*. If you are in Israel, the following is important: As Bezeq in Israel doesn't like the B-Channel resets happening on the lines, it is best to set the reset interval to 'never' when installing a box in Israel. Our past experience also shows that this parameter may also cause issues on local switches in the UK and China.

•PRI Local Dial Plan

Sets an option required for some (rare) switches that require a dial plan parameter to be passed. This option is ignored by most BRI switches. It may be necessary on a few pieces of hardware. This option can almost always be left unchanged from the default.

•Over Lap Dial

Whether MyPBX can dial this switch using overlap digits. If you need Direct Dial-in (DDI; in German "Durchwahl") you should change this to yes, then MyPBX will wait after the last digit it receives.

·PRI Indication

Tells how Device should indicate Busy() and Congestion() to the switch/user. Accepted values are:

inband: Device plays indication tones without answering; not available on all PRI/BRI subscription lines .

outofband: Device disconnects with busy/congestion information code so the switch will play the indication tones to the caller. Busy() will now do same as setting PRI_CAUSE=17 and Hangup().

·Facility Enable

To enable transmission of facility-based ISDN supplementary services (such as caller name from CPE over facility).

∙NSF

Used with AT&T PRIs. If outbound calls are being rejected due to "Mandatory information element missing" and the missing IE is 0x20, then you need this setting.

Echo Cancellation

Echo cancel Obviously this disables or enables echo cancellation, it is recommended to not turn this off.

·Echo Training

Echo training A common echo symptom is that at the beginning of a conversation there is a good deal of echo and then it fades away as it trains itself.

·CRC

CRC Verification.

·Codec

Default ,A-Law,U-Law.

2) CallerID Prefix

·International Prefix

When there are international calls coming in via this BRI trunk, the International Prefix you have set here will be added before the CID. So you can know this is an international call before you answer it.

National Prefix

When there are national calls coming in via this BRI trunk, the National Prefix you have set here will be added before the CID. So you can know this is a national call before you answer it.

·Local Prefix

When there are Local calls coming in via this BRI trunk, the Local Prefix you have set here will be added before the CID. So you can know this is a local call before you answer it.

•Private Prefix

When there are Private calls coming in via this BRI trunk, the Private Prefix you have set here will be added before the CID. So you can know this is a Private call before you answer it.

•Unknown Prefix

When there are calls with unknown number coming via this BRI trunk, the Unknown Prefix you set here will be shown as the caller ID.

3) DOD Setting

·Global DOD

Global direct outward dialing number.



$\cdot DOD$

Direct Outward Dialing Number.

·Associated Extension

The extension make call out via BRI Trunk will display the associated DOD.

Edit Digital Trunk		Х		
Signaling:	PRI-CPE	Mode Type: E1 💌		
Switch Type🛈:	national	PRI Dialplan 🛈 : 💷 💌		
Reset Interval 🛈:	3600	🖌 s 🛛 PRI Local Dialplan 🛈 : 🛛 unknown 🛛 🔽		
Overlap Dial 🛈 :	no	PRI Indication 🛈 : Inband		
Enable Facility00:	Enabled	Nsf 🛈 : none 💌		
Echo Cancellation 🛈 :	On	🖌 Echo Training 🛈 : 16ms 🔽		
CRC:	Off	Codec: Default		
CallerID Prefix				
International Pre	fix:	National Prefix:		
Local Pre	fix:	Private Prefix:		
Unknown Pre	fix:			
C DOD Setting				
Global DOD :				
DOD : Associated Extension : 500 💌				
Save X Cancel				

Figure 3.3.2.1

3.3.2.2 BRI Trunk

1. Edit BRI Trunk

1) General

•Trunk Name

A unique label used to identify this trunk when listed in outbound rules,



incoming rules, etc. Ex: 'BriTrunk1'

Signaling

Signaling method. BRI-CPE: ISDN BRI in TE mode and Point to Point. BRI-CPE-PTMP: ISDN BRI in TE mode and Point to multi Point. BRI-NET: ISDN BRI in NET mode and Point to Point. BRI-NET-PTMP: ISDN BRI in NET mode and Point to multi Point.

·Switch Type

National: National ISDN type2 (common in the US) ni1: National ISDN type 1 dms100: Nortel DMS100 4ess: AT&T 4ESS 5ess: Lucent 5ESS euroisdn: EuroISDN qsig: D-channel signaling protocol at Q reference point for PBX networking.

·PRI Dial Plan

Sets an option required for some (rare) switches that require a dial plan parameter to be passed. This option is ignored by most BRI switches. It may be necessary on a few pieces of hardware. This option can almost always be left unchanged from the default.

Reset interval

Sets the time in seconds between restart of unused channels . Some PBXs don't like channel restarts. so set the interval to a very long interval e.g. 10000000 or 'never' to disable *entirely*. If you are in Israel, the following is important: As Bezeq in Israel doesn't like the B-Channel resets happening on the lines, it is best to set the reset interval to 'never' when installing a box in Israel. Our past experience also shows that this parameter may also cause issues on local switches in the UK and China.

·PRI Local Dial Plan

Sets an option required for some (rare) switches that require a dial plan parameter to be passed. This option is ignored by most BRI switches. It may be necessary on a few pieces of hardware. This option can almost always be left unchanged from the default.

•Over Lap Dial

Whether MyPBX can dial this switch using overlap digits . If you need Direct Dial-in (DDI; in German "Durchwahl") you should change this to yes, then MyPBX will wait after the last digit it receives.



•PRI Indication

Tells how Device should indicate Busy() and Congestion() to the switch/user. Accepted values are:

inband: Device plays indication tones without answering; not available on all PRI/BRI subscription lines .

outofband: Device disconnects with busy/congestion information code so the switch will play the indication tones to the caller. Busy() will now do same as setting PRI_CAUSE=17 and Hangup().

•Enable Facility

To enable transmission of facility-based ISDN supplementary services (such as caller name from CPE over facility).

∙NSF

Used with AT&T PRIs. If outbound calls are being rejected due to "Mandatory information element missing" and the missing IE is 0x20, then you need this setting.

Echo Cancellation

Echocancel Obviously this disables or enables echo cancellation, it is recommended to not turn this off.

·Hide CallerID

If you want others to see your CID, please disable this option.

·Codec

You can choose alaw or ulaw codes.

2) CallerID Prefix

·International Prefix

When there are international calls coming in via this BRI trunk, the International Prefix you have set here will be added before the CID. So you can know this is an international call before you answer it.

National Prefix

When there are national calls coming in via this BRI trunk, the National Prefix you have set here will be added before the CID. So you can know this is a national call before you answer it.

·Local Prefix

When there are Local calls coming in via this BRI trunk, the Local Prefix you have set here will be added before the CID. So you can know this is a local call before you answer it.



Private Prefix

When there are Private calls coming in via this BRI trunk, the Private Prefix you have set here will be added before the CID. So you can know this is a Private call before you answer it.

•Unknown Prefix

When there are calls with unknown number coming via this BRI trunk, the Unknown Prefix you set here will be shown as the caller ID.

4) DOD Setting

·Global DOD

Global direct outward dialing number.

·DOD

Direct Outward Dialing Number.

·Associated Extension

The extension make call out via BRI Trunk will display the associated DOD.



Edit BRI Trunk - BriTrunk	7					Х
Trunk Name 🛈 :	BriTrunk7					
Signaling:	BRI-CPE	•	Switch Type 🛈 :	euroisdn	•	
PRI Dialplan 🛈 :	RI Dialplan 🛈 : 🛛 unknown		Reset Interval 🛈:	never	•	s
PRI Local Dialplan 🛈 :	unknown	•	Overlap Dial 🛈 :	no	•	
PRI Indication 🛈:	Inband	•	Enable Facility 🛈 :	Enabled	-	
Nsf0:	none	•	Echo Cancellation	Off	•	
Hide Caller ID 🛈 :	No	•	Codec:	alaw	•	
Caller ID Prefix						
International Pref	International Prefix:		National	Prefix:		
Local Pret	fix:		Private	Prefix:		
Unknown Pref	fix:					
DOD Settings	DOD Settings					
Global DOD:						
DOD : Associated Extension : 601 ▼						
Save Cancel						

Figure 3.3.2.2

3.3.2.3 Analog Trunk (FXO)

1. Edit Analog Trunk (FXO)

On the Trunk administration page, click 'Edit' on the selected trunk and modify its properties in the popup window:

1) General

•Trunk Name

A unique label used to identify this trunk when listed in outbound rules, incoming rules, etc. Ex: 'pstn5'

·Volume Setting

Used to modify the volume level of this trunk . Normally, this setting does not need to be changed.



2) Busy Detection

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.

Busy 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 500 msec on, 500 msec off. Without Busy Pattern specified, MyPBX will accept any regular sound-silence pattern that repeats <Busy Count> times as a busy signal. If you specify Busy Pattern, then MyPBX will further check the length of the tone and silence, which will further reduce the chance of a false positive disconnect.

Frequency Detection

Used for Frequency Detection (Enable detecting the busy signal frequency or not).

Busy Frequency

If the Frequency Detection is enabled, you must specify the local frequency.

Polarity Detection

Configure if the call needs to be hung up when a polarity signal arrived

3) Advanced Options

·Caller ID 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).

·Caller ID Signaling

This option defines the type of Caller ID signaling to use. It can be set to one of



the following: Bell: 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

.Caller ID Detection

For fxo trunks, this option forces MyPBX to clarify Caller ID incoming calls.

Edit Analog Trunk - pstn4	Х
Trunk Name	pstn4
Volume Setting 0:	40% 🔻
Busy Detection	
Busy Detection	Yes 🔻
Busy Count	4
Busy Interval	1
Busy Pattern ①:	
Frequency Detection	No 👻
Busy Frequency	
Polarity Detection	No 🔻
Advanced Options	
Caller ID Start 🛈: Ring 🔻	Caller ID Signaling 🛈 : Bell - USA 🔹
Caller ID Detection : Yes	
✓ Save	X Cancel

Figure 3.3.2.3

3.3.2.4 GSM/UMTS Trunk

1. Edit GSM Trunk

1) General

•Trunk Name

A unique label used to identify this trunk when listed in outbound rules, incoming rules, etc. Ex: 'GSM9'

·Volume Setting

Used to modify the volume level of this trunk. Normally, this setting does not need to be changed.



·Pin Code

Please enter your SIM card pin code here if your card has a pin code.

Edit GSM Trunk - GSM13	х
General	
Trunk Name 🛈 : GSM13	
Volume Setting (0): 40% ▼	
PIN Code:	
Warning: Be careful. If you failed to enter your correct PIN code 3 times in succession, SIM card will be blocked.	
Save X Cancel	

Figure 3.3.2.4

3.3.2.5 VOIP Trunk

1. Add SIP Trunk

Input correct SIP information (provide by VOIP provider). Inaccurate information will prevent the trunk from registering.

1) General setting

∙Туре

SIP – Identifies whether the trunk sends and receives calls using the VoIP protocol SIP

·Provider Name

A unique label to help you identify this trunk when listed in outbound rules, incoming rules etc. Ex: 'yeastar'.

·Hostname/IP

Service provider's hostname or IP address.5060 is the standard port number used by SIP protocol. Don't change this part if it is not required.

.Domain

VoIP provider's server domain name .

Username

Username of SIP account . Used for SIP trunk registration.

.Authorization name

Used for SIP authentication. Leave this blank if not required.

Password



Password of SIP account .

.From User

All outgoing calls from this SIP Trunk will use the From User (In this case the account name for SIP Registration) in From Header of the SIP Invite.

.Online number

Define the online number that expected by 'Skype Connect' and some other SIP service providers. Leave this field blank if it's no required.

•Maximum Channels

Controls the maximum number of outbound channels (simultaneous calls) that can be used on this trunk . Inbound calls are not counted against the maximum. Set as 0 to specify no maximum.

·Caller ID

Specify the caller ID to use when making outbound calls over this trunk. The caller ID set in the 'extension' screen will override the caller ID set in the 'VOIP trunk' screen. Please note that not all the service providers support this feature. Contact your service provider for more information.

•Outbound Proxy Server

A proxy that receives requests from a client, even though it may not be the server resolved by the Request-URI.

·Codecs

Define the codec for this sip trunk and its priority **Note**: codec can only display when it is edited after creating the trunk.

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.

·Enable SRTP

Define if SRTP is enabled for this trunk

Qualify

Send check alive packets to the sip provider.

·DTMF mode

Set default mode for sending DTMF of this trunk. Default setting: rfc2833

2) DOD Setting •DOD



Direct Outward Dialing Number.

·Associated Extension

The extension make call out via SIP Trunk will display the associated DOD.

Edit VoIP Trunk - test	x
Provider Name:	test
Hostname/IP:	192.168.4.136 : 5060
Domain:	192.168.4.136
User Name:	1111
Authorization Name:	1111
Password:	••••
From User:	
Online Number	
Maximum Channels 🛈 :	0
Caller ID 🛈 :	
	Enable Outbound Proxy Server
Codecs :	First: a-law V Second: u-law V Third: GSM V
	Fourth: None Fifth: None
	UDP Enable SRTP
	rfc2833 🔻
DOD Settings	
DOD:	Associated Extension: 601 TAdd DOD
	Save X Cancel

Figure 3.3.2.5.1

2. Add IAX Trunk

Input correct IAX information (provided by VOIP provider). Inaccurate information will prevent the trunk from registering.

∙Туре

IAX – Identifies whether the trunk sends and receives calls by using the VoIP protocol IAX.

·Provider Name



A unique label to help you identify this trunk when listed in outbound rules, incoming rules etc. Ex: 'yeastar2'.

·Hostname/IP

Service provider's hostname or IP address. 4569 is the standard port number used by IAX protocol. Don't change this part if it is not required.

Username

Username of IAX account . Used for IAX trunk registration.

Password

Password of IAX account .

.Online number

Define the online number that expected by 'Skype Connect' and some other SIP service providers. Leave this field blank if it's no required.

•Maximum Channels

Controls the maximum number of outbound channels (simultaneous calls) that can be used on this trunk . Inbound calls are not counted against the maximum. Leave blank to specify no maximum.

·Caller ID

Specify the caller ID to use when making outbound calls over this trunk. The caller ID set in the 'extension' screen will override the caller ID setting in the 'VOIP trunk' screen. Please note that not all the service providers support this feature. Contact your service provider for more information.

Created New VoIP trunk		х
Туре:	IAX 💌	
Provider Name:		
Hostname/IP:	: 4569	
User Name:		
Password:		
Online Number		
Maximum Channels 🛈 :	1	
Caller ID 🛈 :		
	Save Cancel	

Figure 3.3.2.5.2



3.3.2.6 Service Provider

1. Add Service Provider

To Create the Service provider definition you need to complete the following VoIP fields.

1) General

∙Туре

SIP or IAX

SIP – Identifies whether the trunk sends and receives calls by using the VoIP protocol SIP.

IAX - Identifies whether the trunk sends and receives calls by using the VoIP protocol IAX.

·Provider Name

A unique label would help to you identify this trunk. Ex: 'Provider2'.

·Hostname/IP

Service provider's hostname or IP address.

Note: 5060 is the standard port number used by SIP protocol, 4569 is the standard port number used by IAX protocol. Don't change this part if it is not required.

•Maximum Channels

Controls the maximum number of outbound channels (simultaneous calls) that can be used on this trunk . Inbound calls are not counted against the maximum. Leave blank to specify no maximum.

·Codecs

Define the codec for this sip trunk and its priority **Note**: codec can only display when edit it after creating the trunk.

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.

Qualify

Send check alive packets to the sip provider.

·DTMF mode

Set default mode for sending DTMF of this trunk. Default setting: rfc2833

2) DOD Setting•DODDirect Outward Dialing Number.



·Associated Extension

The extension make call out via BRI Trunk will display the associated DOD.

Edit Service Provider Trunk-SPS-192.168.4.138					
Туре:	SIP 💌				
Provider Name:	192.168.4.138				
Hostname/IP:	192.168.4.138 : 5060				
Maximum Channels 🛈 :	0				
Codecs :	First: GSM 🔻 Second: a-law 🔻 Third: u-law 💌				
	Fourth: None Fifth: None				
Transport:	UDP -				
Qualify:	v				
DTMF Mode:	rfc2833 👻				
DOD Settings					
Global DOD:					
DOD :	Associated Extension : 601 ▼ ↑Add DOD				
Save X Cancel					

Figure 3.3.2.6

3.3.3 Outbound Routes

Outbound routing defines how outgoing calls are processed through the trunks.



MyPBX - Embedded Hybrid IPPBX for Small Businesses - Microsoft Internet Explorer Ele Edit View Favorites Tools Help								
🚱 Back 🝷 🐑 🖌 📘	💈 🏠 🔎 Sea	rch 🤶 Favorites 🔗 🖉	3• 🕹 🖻					
Address 🕘 http://192.168.5.186	5/cgi/WebCGI?1000			Image: Second	Go 链接			
MyPBX Embedded Hybrid IP-PBX for Small Businesses								
Status Monitor 🔹	🕨 Manage Outb	ound Routes 💠						
Line Status	+ New Outbo	und Route	Outbound Routes					
Basic 🙁		Route Name	Dial Pattern					
Extensions	⇒ ₹	pstnout	9.	🔀 Edit 🗴 Delete				
Trunks	د 🚡	to190	Х.	🕅 Edit 🗴 Delete				
Outbound Routes Auto Provision								
Inbound Call Control IVR Queues Custom Prompts Ring Groups Inbound Routes Blacklist								
Internal Settings Options Business Hours Feature Codes SIP Settings IAX Settings Unscenaria Settings								
Voicemail Cottinge				🥥 Internet				

Figure 3.3.3

3.3.3.1 New Outbound Route

Click 'New Outbound Route' and fill in the corresponding information in the popup window.

1) General

•Route Name

Name of this Outbound Route . Ex: 'Local' or 'Long Distance' etc.

·Dial 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

[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 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.

·Strip digits from front

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.

·Prepend these digits before dialing

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. When using analog trunks, a 'w' character may also be prepended to provide a slight delay before dialing.

Password

The route password can be used to protect this route from being accessed without a password.

•T.38 Support:

Enable T38 fax in this outbound route (Only for SIP Trunk).

Memory Hunt

Round robin with memory, remembers which trunk was used last time, and then use the next available trunk to call out.

•Member Extensions

Defines the extensions that will be permitted to use this outbound route .

•Member Trunks

Defines the trunks that can be used for this outbound route .



digits from front
before dialing
•
Selected
Selected

Figure 3.3.3.1

3.3.4 Phone Provisioning

The Auto Provision sub menu provides users a method to Auto Provision IP Phone after the Express Setup process.

Note: Auto Provision functions fully test with these models: Yealink (T12,T18,T20,T22,T26,T28,T32,T38,VP530,VP-2009) Snom (300,320,360,370) Polycom (IP 6000,IP 7000,IP 32X,IP33X,IP430,IP450,IP550,IP560,VVX1500) Cisco (IP7940,IP7960) Aastra(480i,480i CT,6757i,6757i CT, 6737i) News:



When provisioning Yealink and Snom IP phone, MyPBX is not needed to be set as the only DHCP server any more.

Phone Provisioning Ø									
Phone Provisioning									
General Settings for Yealink									
Phone Book									
Configured Phone									
+ Add Phone + A	dd Bulk Phones Nº Configur	e the Selected Phones X Delete the Se	lected Phones						
🔲 ID	MAC Address	Manufacturer	Phone Type	Name		Enabled			
Not Configured Pho									
	ID	MAC Address	Manufacturer		Phone	туре			
	1	001565113844	Yealink		-	-			
	2	001565114094	Yealink		-	-			
Upload a file									
#		Name			Options				

Figure 3.3.4

3.3.4.1 General Settings for Yealink

In this page, you can configure it before provisioning Yealink IP phones, including the items like general preferences, codecs, remote phone book and firmware upgrade

Note: if firmware download server is enabled, IP phone will update the firmware automatically according the version and server you have configured during the provision process.



		Go Back to Phone Provisioning
General Preferences		
	Language 🛈	
	Web server Type	
	Admin Password	I: • Fixed C Prefix
		admin
		t: +8 China(Beijing)
	Primary NTP Server	cn.pool.ntp.org
	Secondary NTP Server	
	Daylight Saving Time	
	Time Format	
	Date Format	t: WWW MMM DD -
	Voicemail	
		Automatic C Custom
Codecs ≈		
Couecs A	Audio Codec For T12,T18,T20,T22,T26,T28,T32,T38	
	Disable Codecs	Enable Codecs
		>>> PCMU
	G723_53 G723_63 G726-16	PCMA G729
	G726-24	→ G729 G722
	G726-32 G726-40	-
	Audio Codec For VP530 and VP-2009	
	Disable Codecs	Enable Codecs
	G722	>>> PCMU
	G723 GSM	PCMA G729
	AACLC	
	iLBC	
		««
	Video Codec For VP530 and VP-2009	
	Disable Codecs	Enable Codecs
		>>> H264 H263
		mp4v-es
		««
Remote Phone Book 奈		
	Phonebook U	JRL Phonebook Name
	1:	
	2:	
	3:	
	4:	
	5:	
Firmware Download Serv		
a minware bowinoad Serv	2007 2007	: Disabled
	T12 Firmware Name	
	T18 Firmware Name	£
	T20 Firmware Name	£
	T22 Firmware Name	e la
	T26 Firmware Name	
	T28 Firmware Name	
	T32 Firmware Name	
	T38 Firmware Name	e
	VP530 Firmware Name	E
	VP-2009 Firmware Name	
		: Chp Chttp
	Server Type	- inp - incp
	HTTP URL	

Figure 3.3.4.1



3.3.4.2 Phone book

You can add your contacts here and provision them to your IP phone.

•	Phone Book 🗄	
	Create New Contact	1
• 0	Contacts	
	No Contact Defined	
• 0	Jeny List	
	No Deny List Defined	
	Upload Phonebook	
	Note: All the existing phonebooks of the IP phone would be deleted automatically if the phonebooks are configured in this way.	
	No Phonebook Uploaded	

Figure 3.3.4.2

1) Add Contact

∙Туре

There are three types: None, VIP and Deny list (Blacklist).

•Group

There are 5 groups: None, Friends, Family, Work, Colleagues list.

·Nick Name

You can set a nick name for this number.

Favorite

Only works with snom phone.

Organization

Input the organization of this contact. Only works with snom phone.

Title

Input the title of this contact. Only works with snom phone.

Email

Input the email of this contact. Only works with snom phone.

·Birthday

Input the birthday of this contact. Only works with snom phone.

First Name

Input the first name of this contact. Only works with snom phone.

·Family Name



Input the family of this contact. Only works with snom phone.

•Office Number

Input the office number here

·Mobile Number

Input the mobile number here

·Home Number

Input the home number here

·Sub Number

Add sub number of this contact. Only works with snom phone.

Note

Take some note of this contact. Only works with snom phone.

	None	•		Group: N		<u> </u>
Nick Name			Favo	orite ¹ : N	• •	
organization 0:				Title 🛈 :		
Email ⁽¹⁾ :			Birth	iday0:		
First Name0:				Family ame:		
Office Number:			Mobile N	umber:		
Home Number:						
Sub Number						
Sub Number		S	ub Number:			↑Add Sub
		S	ub Number:			↑Add Sub
Sub Name:		S	ub Number:			∱Add Sub



Figure 3.3.4.2.1

2) Upload Phonebook

You can upload a phonebook before auto provision, which will be provisioned to the IP phone when using auto provision feature to configure your IP phones. The format of phonebook should be *.xml.

Note: All the existing phonebooks of the IP phone will be replaced automatically if the phonebooks are configured in this way.

3.3.4.3 configure phone

Let's take provisioning yealink as an example Create New Phone have two modes, Create New phone in webpage and Upload the IP Phone's configure file.

1. Add new phone via webpage

Click 'Add Phone' and fill in the corresponding information in the popup window. 1) General

Enabled

Choose yes or no to enable or disable this extension

· MAC address

Input the MAC address of IP phone

•Name

Put the name of this Phone here.

Manufacturer

You can choose the Manufacturer of IP phone

·Phone Type

Choose the model of your phone. Only for snom phone

·Call Waiting

This call feature allows your phone to accept other incoming calls to an extension already in an active call.

·Key as Send

Configure the key as send, you choose # ,* or disable it

Auto redial

Enable the auto redial for IP Phone



Auto answer

Configure if auto answer is allowed for IP phone

·Phone book

Enable the feature of phone book of IP phone

Line

Extension: Selected the extension number for IP Phone.

Label: It is shown on the LCD for users to identify the account.

Line Active: You can choose on/off to enable/disable the account respectively.

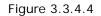
Add Phone					Х
General					
Enabled:	Yes 🔻				
MAC Address:	001565	Name:			
Manufacturer:	Yealink	Phone Type:	T28	-	
Call Waiting:	Enabled -	Key As Send:	#	•	
Auto Redial:	Disabled 🔻	Auto Answer:	Disabled	•	
Phone Book:	Enabled -				
Line					
	xtension:	Label:		Line Active:	
Line2 E	xtension:	Label:		Line Active:	
Line3 E	xtension:	Label:		Line Active:	
Line4 E	xtension:	Label:		Line Active:	
Line5 E	xtension:	Label:		Line Active:	
Line6 E	xtension:	Label:		Line Active:	

Figure 3.3.4.3

2) Audio codec

In this section, we can design the allowed codec for IP phone

Custom	
Disable Codecs	Enable Codecs
G723_53 G723_63 G726-16 G726-24 G726-32 G726-40	>>> PCMA PCMU G729 G722 G722





3) Line keys settings

Configure the DSS keys/Function Keys

Memory Key						
Key	Туре		Value	Line		Extension
DSS Key1	N/A	•		line1	-	
DSS Key2	N/A	v		line1	•	
DSS Key3	N/A	v		line1	•	
DSS Key4	N/A	v		line1	•	
DSS Key5	N/A	v		line1	•	
DSS Key6	N/A	Y		line1	•	
DSS Key7	N/A	v		line1	•	
DSS Key8	N/A	v		line1	•	
DSS Key9	N/A	v		line1	•	
DSS Key10	N/A			line1	-	
ine Keys Settings	: ≪					
Line Keys Setting	s					
Key	Туре	Value	Labe	l Li	ne	Extension
Line Key 1	N/A 👻			Line1	•	
Line Key 2	N/A 🔻			Line2		
Line Key 3	N/A 👻			Line3	-	
Line Key 4	N/A 👻			Line4	-	
Line Key 5	N/A 👻			Line5	-	
Line Key 6	N/A -			Line6		

Figure 3.3.4.5

3.3.4.3 Not configured phone

In this section, MyPBX will scan all the supported IP phones and display here, we can click the 'MAC address' of IP phone and input the corresponding information in the popup window, like the picture shows below



Add Phone				Х
General				
Enabled:	Yes	•		
MAC Address:	001565113844	Name:		
Manufacturer:	Yealink	Phone Type:	T12 🔻	
Call Waiting:	Enabled	 Key As Send: 	# 🔻	
Auto Redial:	Disabled	 Auto Answer: 	Disabled -	
Phone Book:	Enabled	•		
Line				
	xtension:	- Label:	Line	Active:
 As General Custom 	isable Codecs		Enable Codecs	
G723_53 G723_63 G726-16 G726-24 G726-32 G726-40		 »» PCMA PCMU G729 G722 ← ≪« 		
Line Keys Settings ≫				
		Save Cancel		

Figure 3.3.4.6

3.3.4.4 Upload a file

Click 'Upload a file' and choose the configure file of IP phone in the popup window.

Note: the file format must be .cfg

Please edit the configuration files in advance before uploading.

3.4 Inbound Call Control

3.4.1 IVR

When there's an inbound call aims at Auto Attendant, MyPBX 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 inputted by the user.



🚰 MyPBX - Embedded Hybi	rid IPPBX for Small B	lusinesses - Microso	oft Internet Explorer				
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites	<u>T</u> ools <u>H</u> elp						.
		쑦 Favorites 🛛 🔗) 🎯 • 🍓 🖃				
Address 🗿 http://192.168.5.18	6/cgi/WebCGI?1000				~	🔁 Go	链接
My PBX	Embedded Hybr	rid IP-PBX for Sn	nall Businesses			Logou	_t
Status Monitor 🔹	🕨 Manage IVR 🗘						_
Line Status	Create New IV	(R	IVR				
Basic 🙁	Name	Number	Allow Dialing of Other Extensions				Ξ
Extensions	welcome	660	Yes	🔊 E	dit 🔰 🗴 Delete		
Trunks Outbound Routes Auto Provision							
Inbound Call Control WR Queues Custom Prompts Ring Groups)
Inbound Routes							
Blacklist							
Internal Settings 🔹 Options							
Business Hours							
Feature Codes							
SIP Settings IAX Settings							
Voicomail Sattings							~
🙆 Done					🌍 Interne	t	

Figure 3.4.1

3.4.1.1 Create IVR

Click 'Create New IVR'.

1) General

·Number

MyPBX treats IVR as an extension; you can dial this extension number to reach the IVR.

Name

A name for the IVR

Prompt

The prompt recording that will be played when this IVR is reached.

·Repeat Count

The number of times that the selected IVR prompt will be played.

Key Timeout

Wait for the user to enter a new extension for a specified number of seconds.

·Allow Dialing of Other Extensions

Allow the caller to dial other extensions other than the ones explicitly defined.

2) Key Press Events



A list of actions that can be performed depending on the digit dialed by the user .

·Time Out

Defines the timeout action . A timeout occurs after the IVR prompt has finished playing for the number of times specified by the 'Repeat Count' field.

Invalid

Defines the invalid action . The invalid action is triggered if the user enters a DTMF digit that is not defined for this IVR.

New	IVR				×
r	Number 🛈 : 660				
	Name 🛈 : 🛛 welcome				
	Prompt 🛈 : 🛛 default 💌	Custom IVR Prompts			
Rep	eat Count : 🛐 💌				
w	aitExten 🛈 : 🛐 🔽				
	🔽 🛈 Allow Dialing	g Other Extensions			
	🔽 🛈 KeyPress Events —				
	Кеу	Action		Destination	
	O	Connect to Extension	•	User Extension 500	
	1	Connect to Extension	•	User Extension 501	
	2	Connect to RingGroup	•	RingGroup ringgroup_defa	
	3	No Action	•		
	4	No Action	•		
	5	No Action	•		
	6	No Action	•		
	7	No Action	•		
	8	No Action	•	V	
	9	No Action	•	T	
	#	No Action	•		
	*	No Action	•		
	TimeOut 🛈	Connect to Extension	•	User Extension 500	
	Invalid 🛈	Hangup	•		
	L	🗸 Save	X Cancel		

Figure 3.4.1.1



3.4.2 Queues

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

Call queues allow calls to be sequenced to one or more agents.

Note: Dial 'Queue number + '*'' to log in or 'Queue number + '**'' to log out the queue. For example, if the queue number is '680', then agent can dial '680*' to log in or '680**' to log out.

1) General

•Queue Name

A name for the Queue.

•Queue Number

Use this number to dial into the queue, or transfer callers to this number to put them into the queue.

•Queue Password

You can require agents to enter a password before they can login to this queue.

•Queue Agent Timeout

The number of seconds an agent's phone can ring before we consider it a timeout.

•Queue Max Wait Time

The maximum number of seconds a caller can wait in a queue before being pulled out. (0 for unlimited).

Queue Ring Strategy

This option sets the Ringing Strategy for this Queue. The options are <u>RingAll</u>: Ring All available Agents simultaneously until one answers. <u>LeastRecent</u>: Ring the Agent which was least recently called. <u>FewestCalls</u>: Ring the Agent with the fewest completed calls. <u>Random</u>: Ring a Random Agent. <u>RRmemory</u>: Round Robin with Memory, Remembers where it left off in the last

ring pass".

2) Agents

This selection shows all users. Selecting a user here makes them a agent of the current queue.

3) Caller Position Announcements

•Announce Position



Announce position of caller in the queue

Announce Hold Time

Enabling this option causes MyPBX 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.

Frequency

How often to announce queue position and estimated hold time. **Note**: '0 seconds' means disable the announcement

4) Periodic Announcements

Prompt

Select a prompt file to play periodically.

Frequency

The frequency to announce a prompt to the caller.

5) Events

If a caller presses the key while waiting in the queue, this setting selects which action should process the key press.

6) Failover-Destination

Defines the failover action. A failover occurs after the user reach the Queue max wait time.

7) Others

•Music On Hold

Select the 'Music on Hold' Class for this 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.

·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 with no agents or only unavailable agents No: Callers cannot join a queue with no agents The default option is No.

·Agent Announcement



Announcement played to the Agent prior to bridging in the caller.

·Join Announcement

Announcement played to callers once prior to joining the queue.

Retry

The number of seconds we wait before trying all the phones again.

·Wrap-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. The default is 30.



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New Queues	x
Queue Name	: 692
Queue Number	: 692
Queue Password	D:
Queue Agent Timeout	2: 30
Queue Max Wait Time 🛈	: 1800
Queue Ring Strategy 🛈): ringall
Agents	
Available Agents	Selected
500(SIP) 501(SIP) 502(SIP) 503(SIP) 504(SIP) 505(SIP) 506(SIP) 507(SIP) ▼	
Caller Position Announcements Announce Position Announce Hold Time Frequency	
Periodic Announcements Prompt Frequency	D:
Events	
	ey: 💙 on: End Call
Destinatio	
- Failover-Destination	
	n: End Call
Destinatio	
Others	
Music On Hold	
Leave When Empty	
Join Empty	
Agent Announcement	
Soin Announcement	
Wrap-up time	
s	ave X Cancel

Figure 3.4.2

3.4.3 Custom Prompts

1. Record new Prompt



The administrator can use this screen to 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 500).

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

Record New Prompt	X
File Name: welcome Dial extension: 500 v to record a new voice prompt Record XCancel	

Figure 3.4.3.1

2. Upload Prompt

The administrator can also upload prompts by doing the following:

- 1)) Click 'Upload Prompt'.
- 2) Click 'Browse' to choose the desired prompt.
- 3) Click 'Upload' to upload the selected prompt.

Upload Music On Hold Prompt	X
WAV formation CPM C 40 Bidda Mar	a. 11/b/aThe file size must be greater than 1 0MDI
WAV TURMAL GSM 6.10 8KHZ, MUR	no, 1Kb/sThe file size must not be greater than 1.8MB!
Choose file to upload 🛈 :	浏览
Upload	K Cancel

Figure 3.4.3.2

3.4.4 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.



🗿 MyPBX - Embedded Hybr		imall Businesses - Mici	rosoft Internet Explorer	
File Edit View Favorites	Tools Help			
Address 🕘 http://192.168.5.186	5/cgi/WebCGI?100	0		✓ ● Go 链接
MyPBX	Embedded	Hybrid IP-PBX for	Small Businesses	Logout
Status Monitor 🔹	🕨 Manage F	ling Groups 🔅		
Line Status	+ New Ri	ing Group	Manage Ring Groups	
Basic 🙁	Number	Name	Members	
Extensions Trunks Outbound Routes Auto Provision Inbound Call Control IVR Queues Custom Prompts Ring Groups Inbound Routes Blacklist	620	ringgroup_default	500(SIP)-501(SIP)-502(SIP)-503(SIP)-504(SIP)-505(S	N Edit X Delete
Internal Settings Options Business Hours Feature Codes SIP Settings IXS Settings Visionmail Settings Visionmail Settings				Internet

Figure 3.4.4

3.4.4.1 Create Ring Group

Click 'New Ring Group' to enter into the Manage Ring Groups page

1) General

•Ring Group Name

This option defines a name for this group, i.e. 'Sales'. 'Ring Group Name' is a label to help you identify this group in the group list.

•Ring Group Number

This option defines the numbered extension that can be dialed to reach this group.

Strategy

This option sets the Ringing Strategy for this Group. The options are as follows:

- 1. Ring All Simultaneously: Ring all available Extensions simultaneously.
- 2. Ring Sequentially: Ring each extension in the group one at a time.

•Seconds to ring each member

1. If the strategy is 'Ring All Simultaneously', it means set the number of seconds to ring this group before routing the call according to the 'Destination if No Answer' settings.

2. If the strategy is 'Ring Sequentially', it means set the number of seconds to ring a single extension before moving onto the next one.



2) Ring Group Members

An extension can be made a member of this ring group by moving it into the 'Selected' box.

3) Destination If No Answer

When all members on this group fail to answer the call, system will handle the call according to the selected destination.

New Ring Group		X
Ring Group) Name 🛈 : 625	
Ring Group N	Number 🛈: 625	
S	trategy 🛈 : Ring all simultaneo	usly 🔽
Seconds to ring each m	ember 🛈 : 60	
Ring Group members 🛈		
Available Extensions		Selected
5001(SIP) 5002(SIP) 5003(SIP) 5004(SIP) 5006(SIP) 5006(SIP) 5008(SIP) 5008(SIP)		
Destination:	 End Call Extension Voicemail IVR RingGroup Conference Room 	Extension 5001
	Save X Cancel	

Figure 3.4.4.1

3.4.5 Inbound Routes

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



🕙 MyPBX - Embedded Hybr	rid IPPBX for Small Businesses	- Microsoft Internet Exp	lorer			
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites	<u>T</u> ools <u>H</u> elp					.
🚱 Back 🝷 🕞 🕤 💌	🗟 🏠 🔎 Search travor	ites 🕢 🔗 🎼	2			
Address 🗃 http://192.168.5.18	6/cgi/WebCGI?1000			*	🔁 Go	链接
My PBX	Embedded Hybrid IP-PB)	K for Small Business			Logout	^ -
Status Monitor 🔹	Manage Inbound Routes	φ				
Line Status	+ New Inbound Route	Manage	Inbound Routes			
Basic	Route Name	DID Number	Caller ID Number			Ξ
Extensions	pstnin			🔊 Edit 🛛 🗴 Delete		
Trunks						
Outbound Routes						
Auto Provision						
Inbound Call Control 🔹						
IVR						
Queues						
Custom Prompts						
Ring Groups Inbound Routes						
Blacklist						
Internal Settings 📀						
Options Business Hours						
Feature Codes						
SIP Settings						
IAX Settings						
Voicomail Cattinge						~
ど Done				🥑 Interne		

Figure 3.4.5

3.4.5.1 Create Inbound Route

Click 'New Inbound Route' to enter to the Manage Inbound Routes page. When an incoming call arrives, the system will first check 'fax detection', then 'Holidays', at last 'Business Days'.

1) General

•Route Name

A name for this inbound route. Ex: 'pstncallin' etc.

·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. Only service provider, E1 trunks, BRI trunks or SIP trunks need to be configured with this setting.

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

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 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.

For more information, please refer to Appendix G How to Use DID.

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 the count of the DID number.

·Caller ID Number

Define the Caller ID Number to be matched on incoming 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 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.

·Distinctive Ringtone

MyPBX support mapping to custom ring tone files. For example, if you configure the distinctive ringing for custom ring tone to '**Family**', the ring tone will be played if the phone receives the incoming call.

·Enable Callback

You can enable the callback function of this inbound route. If you want to configure the callback function, please refer to <u>chapter 3.5.12</u>

How do I configure distinctive ring tones? Please refer to <u>APPENDIX E</u>. Currently distinctive ringtone can be compatible with Yealink and Snom phone.



2) Member 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.

4) Business Days

Define where the calls will be routed during Business Days.

·Office Days

Select one defined business days office days.

·Office Hours Destination

Configure where to route the incoming calls during office hours.

•End Calls Route the incoming calls to end calls, System will auto 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.

Faxes

Route the incoming faxes to a specific extension's mail address. Note: This function only supports T.38 faxes.

•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 with a branch B in China. A and B both have MyPBX phone systems .

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.

Non-office Hours Destination

Configure where to route the incoming calls during non-office hours.

5) During Holidays

Define where the calls will be routed during Holidays.

Holiday

Select the which defined Holiday to use. When a time is defined in both Business Days and Holidays, it will be treated as Holidays.

Destination

Configure where to route the incoming calls during holidays.

6) Fax Detection

Configure if detecting faxes in this inbound route.

Destination

Configure where the faxes will be routed when faxes are detected.

·No detect

Do not detect faxes.

·Custom Email

Customize an E-mail address to receive the faxes. You should first configure the 'Voicemail Settigns->SMTP Settings for Voicemail' correctly before you use this option.

Faxes

Send faxes to an extension. If choosing a FXS extension here, the fax will be sent to the FXS port selected, you should connect a fax machine to this FXS port. If Choosing a VoIP extension, the fax will be sent to the extension's voicemail as an attachment.

Note: If you receive faxes with custom Email address, the 'SMTP settings' of 'Voicemail Settings' should be configured successfully in advance. If you receive faxes with E-mail address configured in VOIP extension voicemail, you should first make sure the tested email to your email address works fine.



reate New Inbound	Route		Х
General		,	
	Route Name 🛈 :		
	DID Number 🛈 :		
	Extension 🛈 :		
	Caller ID Number 🛈 :		
	Distinctive Ringtone 🛈 :		
	Enable Callback : No 💟	Callback Settings	
C Member Trunks			
	able Trunks	Selected	
456(FXO) pstn5(FXO) pstn6(FXO) GSM9(GSM) BriTrunk7(BRI) BriTrunk8(BRI)			
Business Days - Office Days :	default		
Destination :	End Call		
Non-office Hours			
Destination :	End Call		
C During Holidays			
Holiday :			
Destination :	End Call		
Fax Detection			
Destination :	No Detect		
	✓ Save	Cancel	

Figure 3.4.5.1

3.4.6 Blacklist

Blacklist is used to block an incoming/outgoing call. If the number of incoming/outgoing call is registered 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.



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<u>File Edit View Favorites (</u>	Eools Help		- 🥂
🚱 Back 🝷 🕥 🕤 😫 🕻	🖥 🏠 🔎 Search 🤺 Favorites 🤣 🍛 🛁		
Address ど http://192.168.5.186,	(cgi/WebCGI?1000	💌 🔁 Go	链接
MyPBX	Embedded Hybrid IP-PBX for Small Businesses	Log	out
Status Monitor 🔹	🕨 Manage Blacklists 🕸		
Line Status	New Blacklist Manage Blacklists		
Basic 🔕	Blacklist		=
Extensions	10000	🗴 Delete	
Trunks	10086	🗴 Delete	
Outbound Routes	1234567	🗴 Delete	
Auto Provision	13850050500	🗴 Delete	
Inbound Call Control \land			
IVR			
Queues			
Custom Prompts			
Ring Groups			
Inbound Routes Blacklist			
Internal Settings 🛛 🔕			
Options			
Business Hours			
Feature Codes			
SIP Settings IAX Settings			
Voicomail Sottings			~
🙆 Done		🌍 Internet	:

Figure 3.4.6

3.4.6.1 Create Blacklist

Click 'New Blacklist' to create a new number blacklist.

Create New Blacklist	х
Blacklist Number :	
Type : Inbound	
Save X Cancel	

Figure 3.4.6.1

·Blacklist number

Enter the number you would like to block.

∙Туре

.

The number blocked for incoming or outgoing calls or both



3.5 Internal Settings

3.5.1 Options

1) General

·Ring Timeout

Number of seconds to ring a device before handling the call as per the extension's Follow Me settings. Default value is 30s.

MAX call duration

The absolute maximum amount of time permitted for a call. A setting of 0 disables the timeout. Default value is 6000s.

Maximum concurrent calls

Maximum concurrent calls limits. Default value 0 means no limit

•Music on hold

Used to set hold music for the system.

•Tone Region

Please select your country or nearest neighboring country to enable the default dial tone, busy tone, and ring tone for your region. **Note**: please reboot the system to take it effect.

·HTTP bind port/Web Access Port

Port to use for HTTP sessions . Default: 80 **Note**: please reboot the system to take it effect.

·FXO Mode

FXO port's operation mode .

·Enable Follow Me Prompt

When set Follow me to Transfer to number on the extension page (e.g. when 500 is busy, transfer to 501), while 500 is busy, the call will be transferred to 501. If 'Enable Follow Me Prompt' choosing yes, there will be prompt before transferring the call. Otherwise, the call will be transferred directly without any prompt. Default: Yes.

·Virtual Ring Back Tone

It's only for GSM trunk. Once enabled, when the caller call out with GSM trunks, the caller will only hear the virtual ring back tone generated by the system before callee answers the call.



· Distinctive Caller ID

When incoming calls are routed from ring group/queue/IVR, the caller ID displays with the name of ring group / queue/IVR, for example 5503302(ringgroup_default)

Note: To display IVR's name, please press the key instead of the extension number directly.

·Follow Me Prompt

Configure whether to play a prompt 'please wait while trying to look at the person you are calling' when transfer a call by follow me settings.

·Invalid Phone Number Prompt

Configure the prompt when the dialed phone number is invalid.

Busy Line Prompt

Configure the prompt when the dialed phone number is busy.

·Dial Failure Prompt

Configure the prompt when dial failed due to conjunction no-available channel.

2) Extension Preferences
•User Extensions
The default value is 500 to 616

•**Ring Group Extensions** The default value is 620 to 629

• Paging Group Extensions The default value is 630 to 639

·Conference Extensions

The default value is 640 to 659

•IVR Extensions The default value is 660 to 679

•Queue Extensions The default value is 680 to 689



Instack Centeral Preferences Basic Ring Timeout® : 30 Dubound Routes MAX Call Duration® : 6000 Maximum Concurrent Calls® : 0 Maximum Concurrent Calls® : 0 Mone Provisioning Music On Holds camver · Inbound Call Control @ Music Con Hold camver · New Tone Region Ø : United State Unition Prompts Ring Groups Inbound Routes FXO Mode Ø : FCC Unition Prompts Ne • Buckdati Busichati Internal Settings Ring Groups Busiches Busy Line Prompt Ø : res Dial Falure Prompt Ø : res Imailed Phone Number Prompt Ø : res Extension Preferences User Extensions : 500 Ring Group Extensions : 630 Ring Group Extensions : 630	•
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hobund Routes Backlist ternal Settings Pollom Re Prompt Pollom	
Blacklist Follow Me Prompt Ves • Invalid Phone Number Prompt 0: Busy Line	
ternal Settings € Busy Line Prompt⊕: Dial Failure Prompt⊕: Dial Failure Prompt⊕: Dial Failure Prompt⊕: Dial Failure Prompt⊕: Dial Failure Prompt⊕: Dial Failure Prompt⊕: Busy Line Prompt⊕: Dial Failure Prompt⊕: Dial Failure Prompt⊕: Dial Failure Prompt⊕: Dial Failure Prompt⊕: Busy Line Prompt⊕: Dial Failure Prompt⊕: Dial Failure Prompt⊕: Busy Line Prompt⊕: Dial Failure Prompt⊕: Dial Failure Prompt⊕: Busy Line Prompt⊕: Dial Failure Prompt⊕: Busy Line Prompt⊕: Dial Failure Prompt⊕: Busy Line Prompt⊕: Dial Failure Prompt⊕:	
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AX Settings Ring Group Extensions : 620 SMS Settings Paging Group Extensions : 630	to 616
MS Settings Paging Group Extensions : 630	
HEA	to 629
Conference Extensions : 840	to 639
conferences 040	to 659
aging Groups IVR Extensions : 660	to 679
NIS Settings Queue Extensions : 690	to 689
PIN User Settings Reset to Default	

Figure 3.5.1

3.5.23.5.2 Business Hours

1) General

•Enable or Disable Business Hours

2) Others

•Enable Office Closed Timing

By dialing *81 (*81 is default) on an extension will force the office time closed for the device whatever the general setting is.

·Disable Office closed timing

By dialing *081 (*081 is default) on an extension will disable the Office Closed Timing.

3) Business Days

You can setup the business hours here.

4) Holidays

You can setup the holidays here.

If a time period is configured as both Holidays and office hours, it will be treated as Holidays.



My PBX	Embedded Hybrid IP-PBX for Small Businesses
Status Monitor (*) Line Status	▶ Business Hours � General
Basic (*) Extensions	CEnable Business Hours
Trunks Outbound Routes Auto Provision	Others *81 Enable Office Closed Timing *081 Disable Office Closed Timing
Inbound Call Control (*) IVR Queues Custom Prompts Ring Groups Inbound Routes Blacklist	Business Days • New Office Hours Name Detail default Mon 08:30-12:00/14:00-18:00/19:00-22:00 Sat 08:30-12:00/00:00- 00:00/00:00-00:00 Holidays
Internal Settings © Options Business Hours Feature Codes	Note : Besides business days and office hours, public holiday could be set as well. Those holidays would be treated as non-office time. New Holiday Name Detail
SIP Settings IAX Settings Voicemail Settings SMS Settings DISA	✓ Save Cancel

Figure 3.5.2

3.5.3 Feature Codes

1) General

One Touch Record

A user may initiate or stop call recording by dialing *1 during a call. (*1 is default setting)

·Extension for Checking Voicemail

Users can check their Voicemail by dialing *2 on their phone (*2 is default setting).

·Voicemail main menu

Users can go to the main menu by dialing *02 (*02 is default setting).

Attended Transfer

Users may transfer an incoming call by dialing *3 on their phone (*3 is default setting).

Attended Transfer Timeout

The time out of transferring a call

·Blind Transfer

Users may blind transfer an incoming call by dialing *03 on their phone (*03 is default setting).

·Call Pickup

Users may pick up an incoming call by dialing *4 on their phone (*4 is default setting)



•Extension Pickup

Users may pick up a specific extension's incoming call by dialing *04+extension number on their phone (*04 is default setting)

Intercom

Define the feature code that is used to dial an extension in intercom mode. For instance setting this value to *5 would allow you to initiate an intercom call with extension 501 by dialing *5501.

·Normal Spy

In this mode, you can only listen to the extension being spied, for example you can dial *90501 to monitor extension 501

·Whisper Spy

In this mode you can listen/whisper to the extension being spied, for example, dialing *91501 to listen to extension 501, you can also talk with 501 too.

·Barge Spy

In this mode, you can barge in both extensions involved the call, for example dialing *92501 to barge in and talk with all the extensions inside

2) Call Park Preferences

·Call Parking

User may park an incoming call on his own telephone by pressing '*6' (*6 is default setting)

·Extension range used to park calls

User may park an incoming call on a designated extension at first and then pick up the call again on any other extension.

Number of seconds a call can be parked before it is recalled.

Defines the number of seconds that a call can be parked before it is recalled to the station that parked it .

3) Call Forwarding Preferences

•Reset to Defaults

Users may reset all call forward defaults by calling *70 on their phone (*70 is default setting).

Note: When reset to defaults. The call forwarding settings will be configured as follows:

Always forward: Disabled Busy forward to Voicemail: Enabled



No answer forward to Voicemail: Enabled Do not disturb: Disabled

•Enable Forward All Calls

Users may enable always forward by calling *71 on their phone (*71 is default setting)

·Disable Forward All Calls

Users may disable always forward by calling *071 on their phone (*071 is default setting)

·Enable Forward When Busy

Users may enable busy forward by dialing *72 on their phone (*72 is default setting)

·Disable Forward When Busy

Users may disable busy forward by calling *072 on their phone (*072 is default setting)

·Enable Forward No Answer

Users may enable no answer forward by calling *73 on their phone (*73 is default setting)

·Disable Forward No Answer

Users may disable no answer forward by calling *073 on their phone (*072 is default setting)

·Forward to number

Users may activate call forwarding by dialing this feature code, followed by the extension or phone number to forward all calls to.

Note: Users may activate Forward to number by dialing *74 + phone number. e.g.: by dialing *74501, all calls will be forwarded to extension 501.

•Forward to Voicemail

Users may forward the call to Voicemail by calling *074 on their phone (*074 is default setting)

•Enable Do Not Disturb

Users may enable do not disturb by calling *75 on their phone (*75 is default setting)

·Disable Do Not Disturb

Users may disable do not disturb by calling *075 on their phone (*075 is default



setting)

Feature Codes 🔅

General			
	Cone Touch Record	*1	
	Check Extension Voicemail	*2	
	🔽 Voicemail Main Menu	*02	
	Attended Transfer	*3	
	Attended Transfer Timeout	15	s
	Blind Transfer	*03	
	Call Pickup	*4	
	Extension Pickup	*04	
	Intercom	*5	
	Normal Spy	*90	
	Whisper Spy 💷	*91	
	Barge Spy	*92	
Call Parking Preferences			
	Call Parking	*6	
	Extension range used to park calls	690-699	(Ex: 690-699)
	Number of seconds a call can be parked for $oldsymbol{0}$	60	
Call Forwarding Preferences			
	Reset to Defaults	*70	
	Enable Forward All Calls	*71	
	Disable Forward All Calls	*071	
	Enable Forward When Busy	*72	
	Disable Forward When Busy	*072	
	Enable Forward No Answer	*73	
	Disable Forward No Answer	*073	
	Forward to Number	*74	
	Forward to Voicemail	*074	
	1 of ward to voiceman		
	Enable Do Not Disturb	*75	

Figure 3.5.3

3.5.4 SIP Settings

1) General

·UDP Port

Port use for sip registrations, Default is 5060.

•TCP Port

Port use for sip registrations, Default is 5060.

·TLS Port

Port use for sip registrations, Default is 5061.

•RTP Port Start Beginning of RTP port range

•RTP Port End End of RTP port range

·DTMF Mode

Set default mode for sending DTMF. Default setting: rfc2833

•Max Registration/Subscription Time

Maximum duration (in seconds) of a SIP registration . Default is 3600 seconds.



Min Registration/Subscription Time

Minimum duration (in seconds) of a SIP registration . Default is 60 seconds.

·Default Incoming/Outgoing Registration Time

Default Incoming/Outgoing Registration Time: Default duration (in seconds) of incoming/outgoing registration.

•Register Attempts

The number of SIP REGISTER messages to send to a SIP Registrar before giving up. Default is 8 times.

·Register Timeout

Number of seconds to wait for a response from a SIP Registrar before timed out . Default is 20 seconds.

·Calling Channel Codec Priority

Once enabled, when dialing out via SIP/SPS trunks, the codec of calling channel will be selected in preference. If not, MyPBX will follow the priority in your SIP/SPS trunks.

·Video Support

Support for SIP video or no. Default is yes.

·Max Bit Rate

Configure the max bit rate for video stream. The default: 384kb/s

·DNS SRV Look Up

Please enable this option when your SIP trunk contains more than one IP address.

·User Agent

To change the useragent parameter of asterisk, the default is 'MyPBX', you should change it if needed.

2) NAT

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

·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 Address

The IP address that will be associated with outbound SIP messages if the system is in a NAT environment .

·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 be used with this system. Please contact your ISP for more information.

·External Refresh Interval

If an external host has been supplied, you may specify how often the system will perform a DNS query on this host. This value is specified in seconds.

·Local Network Identification

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;

'10.0.0/255.0.0.0' : 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.

·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 rport in headers.

·Allow RTP Reinvite

By default, the system will route media steams from SIP endpoints through itself. Enabling this option causes the system to attempt to negotiate the endpoints to route packets to each other directly, bypassing the system. It is not



always possible for the system to negotiate endpoint-to-endpoint media routing.

3) Codecs

A codec is a compression or decompression algorithm that used in the transmission of voice packets over a network or the Internet.

u-law: A PSTN standard codec, used in North America, that provides very good voice quality and consumes 64kbit/s in each direction (receiving and transmitting) of a VoIP call.

a-law: A PSTN standard codec, used outside of North America, that provides very good voice quality and consumes 64kbit/s in each direction (receiving and transmitting) of a VoIP call.

GSM: A wireless standard codec, used worldwide, that provides adequate voice quality and consumes 13.3kbit/s in each direction (receiving and transmitting) of a VoIP call. GSM is supported by many VoIP phones.

SPEEX: Speex is an Open Source/Free Software patent-free audio compression format designed for speech. The Speex Project aims to lower the barrier of entry for voice applications by providing a free alternative to expensive proprietary speech codecs. Moreover, Speex is well-adapted to Internet applications and provides useful features that are not present in most other codecs.

G.722: G.722 is a wideband speech coding algorithms which supports the bit rate of 64, 56 and 48kbps wideband. It's a broadband voice encoding of G series.

G.726: A PSTN codec, used worldwide, that provides good voice quality and consumes 32kbit/s in each direction (receiving and transmitting) of a VoIP call. G.726 is supported by some VoIP phones.

ADPCM, G.729A, H261, H263, H263p, H264, MPEG4.

Note: If you would like to use G.729, please enter your license.

4) QOS

QoS (Quality of Service) is a major issue in VOIP implementations. The issue is how to guarantee that packet traffic for a voice or other media connection will not be delayed or dropped due interference from other lower priority traffic. When the network capacity is insufficient, QoS could provide priority to users by setting the value.

5) Advanced Settings



·From Field

Where to get the caller ID in sip packet.

•To Field

Where to get the DID in sip packet.

·180 Ringing

It is set when the telecom provider needs. Usually it is not needed.

Qualify

Send check alive packets to the sip provider.

•Remote Party ID

Whether send Remote-Party-ID on SIP header. Default no.

Session -timers

Enable sesstion-timer mode, default: yes

•Sesstion-expires The max refresh interval

•Sesstion-minse The min refresh interval, which mustn't be less than 90s

Sesstion-refresher

Choose sesstion-refersher, the default is Uas



SIP (Session	Initiation	Protocol)	Configuration	ų

General	
UDP Port	: 5060
Enable TCP Port	D: 5060
Enable TLS Port	5061
RTP Port S	
RTP Port I	
DTMF Mode	
Max Registration/Subscription Time	
Mix Registration/Subscription Time	
Default Incoming/Outgoing Registration Time	
Register Attempts	
Register Timeoul	
Calling Channel Codec Priority	
Video Support	
Max Bit Rate	
DNS SRV Look Up	
User Agent	
NAT	
Note: Configuration of this section is o	ly required when you use remote extensions.
Enable ST	
STUN Addr	
STUN F	
External IP Address	
External Host	
External Refresh Interval	
Local Network Identification	
NAT Mode	
Allow RTP Re-invite	
Codecs	
Available Codecs	Allowed Codecs
SPEEX	»» U-law
G722 G726	a-law GSM
ADPCM G729A	H261 H263
MPEG4	- H263P H264
	««
G.729 License Key :	
Note: If you would like to use G.729, plea	e enter your license key above.
QOS ≈	
Tos SIP: CS3	▼ Cos SIP: 3 ▼
Tos Audio: EF	✓ Cos Audio: 5
Tos Video: AF41	▼ Cos Video: 4 ▼
Advanced Settings 🔊	
	eld: From •
	eld: INVITE
180 Ring	
	D: 🗆 send 🗖 trust
Consist timero	
	C Accept
Session-expires	D: 1800 s
	D: 1800 s D: 90 s

Figure 3.5.4

3.5.5 IAX Settings

1) General

·Bind Port

Port use for IAX2 registrations, Default is 4569.



Bandwidth

Low/medium/high with this option you can control which codec to be used.

•Min Registration Time

Minimum duration (in seconds) of a IAX2 registration. Default is 60 seconds.

•Max Registration Time

Maximum duration (in seconds) of a IAX2 registration. Default is 1200 seconds.

2) Codecs

A codec is a compression or decompression algorithm that used in the transmission of voice packets over a network or the Internet.

u-law: A PSTN standard codec, used in North America, that provides very good voice quality and consumes 64kbit/s in each direction (receiving and transmitting) of a VoIP call.

a-law: A PSTN standard codec, used outside of North America, that provides very good voice quality and consumes 64kbit/s in each direction (receiving and transmitting) of a VoIP call.

GSM: A wireless standard codec, used worldwide, that provides adequate voice quality and consumes 13.3kbit/s in each direction (receiving and transmitting) of a VoIP call. GSM is supported by many VoIP phones.

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G.726: A PSTN codec, used worldwide, that provides good voice quality and consumes 32kbit/s in each direction (receiving and transmitting) of a VoIP call. G.726 is supported by some VoIP phones.

ADPCM, G.729A, H261, H263, H263p, H264.

Note: If you would like to use G.729, please enter your license.



🐔 MyPBX - Embedded Hyb	rid IPPBX for Small Businesses - Microsoft Internet Explorer 📃 🗖 🔀
Eile Edit ⊻iew Favorites	Iools Help 🧗
🌀 Back 👻 🐑 💌 📘	🖹 🕎 Search 🧏 Favorites 🚱 🔗 - 💺 🚍
Address 🎒 http://192.168.5.18	دەر 😥 💽 🖌 🕹 دەر 🖓
MyPBX	Embedded Hybrid IP-PBX for Small Businesses
Status Monitor 🛞	► IAX Settings ♦
Line Status	
Line Status	General
Basic	
Extensions	Bind Port: \$569
Trunks	
Outbound Routes	Bandwidth: Low 💌
Auto Provision	Minimum Registration Time: 60
	Maximum Registration Time: 1200
Inbound Call Control 🔹	
IVR	Codecs
Queues	
Custom Prompts	Allowed Codecs: 🔽 u-law 🔽 a-law 🔽 GSM 🗆 SPEEX 🗆 G726 🗖 ADPCM 🗖 G729A 🗖 H261 🗖 H263 🗖 H264
Ring Groups	
Inbound Routes	
Blacklist	Save 💥 Cancel
Internal Settings 🔹	
Options	
Business Hours	
Feature Codes	
SIP Settings	
IAX Settings	
Voicemail Settings	
DISA	~
ē	🔿 Internet

Figure 3.5.5

3.5.6 Voicemail Settings

1) General Voicemail Settings

a) Message Options

•Max Messages per Folder

Set the maximum number of messages that can be stored in a single voicemail box.

·Max Message Time

Set the maximum length of a single voicemail message.

•Min Message Time

Set the minimum length of a single voicemail message. Messages below this threshold will be automatically deleted.

Ask Caller to Dial 5

If this option is set, the caller will be prompted to press 5 before leaving a message.

•Operator Breakout from Voicemail

If this option is set, the caller can jump out of the voicemail and go to the destination (IVR) you set by dialing "0".



b) Greeting Settings

Busy Prompt

Greeting played when the extension called is busy. Skip greeting: Do not play a greeting. Play busy greeting: play the extension busy greeting.

·Unavailable Prompt

Greeting played when the extension called is Unavailable. Skip greeting: Do not play a greeting. Play Unavailable greeting: play the extension Unavailable greeting.

·Leave a Message Prompt

Greeting when ask the caller to dial 5 to leave a message. Skip greeting: Do not play a greeting. Play busy greeting: play the extension busy greeting. Play Unavailable greeting: play the extension Unavailable greeting.

c) Playback Options

Announce Message Caller ID

If this option is enabled, the Caller ID of the party that left the message will be played back before the voicemail message begins playing.

Announce Message Duration

If this option is set, the duration of the message in minutes will be played back before the voicemail message begins playing.

. Announce Message Arrival Time

If this option is set, the arrival time of the message will be played back before the voicemail message begins playing.

. Allow Users to Review Messages

Allow callers to review their recorded message before sending it to voicemail.

2) SMTP Settings for Voicemail

Note: If you want to send voicemail messages as email attachments, please configure this section.

·E-mail Address

The E-mail Address that MyPBX will use to send voicemail.

Password

The password for the email address used above

·SMTP Server



The IP address or hostname of an SMTP server that the MyPBX will connect to in order to send voicemail messages via email, i.e. mail.yourcompany.com.

·Port

SMTP Port: the default value is 25.

·Use SSL/TLS to send secure message to server

If the server of sending email needs to authenticate the sender, you need to select the check box.

Note: Must be selected for Gmail or exchange server.

After filling out the above information, you can click on the 'Test Account Settings' button to check whether the setup is OK.

1) If the test is successful, you can use the email safely.

2) If test failed, please check the above information is correct or network is proper.

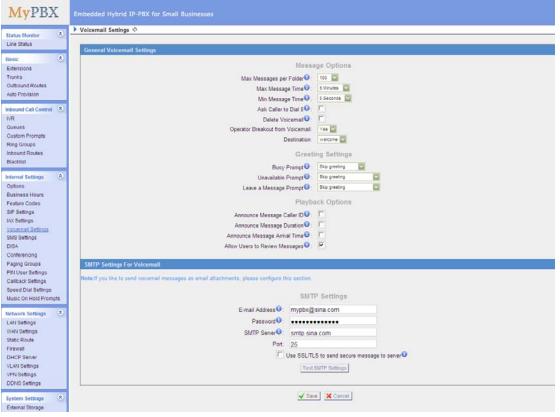


Figure 3.5.6

3.5.7 SMS Settings

MyPBX supports SMS to Email and Email to SMS. (Only for GSM trunks)

1) Enable SMS to Email

If you enable this, as soon as the GSM trunks receive small messages, MyPBX



will send the text of this message to the email addresses listed on the Email List. You can add email addresses to the Email List.

lears@yeastar.com		8
	Add Email	
Email Address:		

Figure 3.5.7.1

2) Enable Email to SMS

If you enable this, you can use MyPBX to send out message by sending an email to the specified address.

·Enable Country Code

If you want to add country code before the dialed numbers, please tick this.

·Country Code

The country code to be add before the dialed numbers.

·Receive mails every

The interval time of receiving mails from POP3 server.

·Access Code

This PIN code is used to verify the subject of the emails received. If the form of email passes the verification, it will be send out by SIM card. If not, this email will be deleted immediately.

3) Email Settings

Note:

1. If you want to use "SMS to Email", please configure POP3 setting.

2. If you configure the POP3 setting, MyPBX will download emails from the mail server regularly. Once downloaded, the emails will be deleted from the mail server.

·Email Address

This email address will be used to:

1. Send email to the addresses listed on "SMS to Email" setting.

2. Receive email and send the text of the email to the target mobile number by SMS.

Note: If you use gmail, just put your user name here. E.g. email address: test@gmail.com, you just put "test" here.

Password

Input the password of this email here.

- •SMTP Server (SMTP)
- •SMTP Server Port
- •Receive Server (POP3)

·Receive Server Port

If you want to know more about Email to SMS, please refer to APPENDIX F

•	SMS	Settings	\$

			SMS Se	ettings	
Enable SM	S To Email				
GSM Trui	nk Name	GSM Port		Email List	
GSM	M9	9	chengeng930@163	.com chengeng530@gmail.com chenge	🔊 Edit 🗴 Delete
GSM	/11	11			🔊 Edit 🗴 Delete
GSM	/13	13		-	🔊 Edit 🛛 😕 Delete
Enable Ema mail To SMS					
			Enable Country Code:		
			Country Code:	China +86	
			Receive mails every	60	
			Access Code		
mail Settings Email Setting Note:					
Email Setting lote: . If you want to . If you configu	js o use "SMS to I		ifigure POP3 setting. I download emails from the m	ail server regularly. Once downloaded, the emai	is will be deleted from the mail
Email Setting lote: . If you want to . If you configu	js o use "SMS to I			ail server regularly. Once downloaded, the emai	Is will be deleted from the mail
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Email Setting lote: . If you want to . If you configu	js o use "SMS to I		Email Address® : Password® : SMTP Server (SMTP):	chengeng530 ••••••• smtp.gmail.com	Is will be deleted from the mail
Email Setting lote: . If you want to . If you configu	js o use "SMS to I		Email Address Email Address Password SMTP Server (SMTP): SMTP Server Port:	chengeng530 •••••• smtp.gmail.com 587	Is will be deleted from the mail
Email Setting lote: . If you want to	js o use "SMS to I		Email Address : Password : SMTP Server (SMTP): SMTP Server (POP3): Receive Server (POP3):	chengeng530 smtp.gmail.com 587 pop.gmail.com	ils will be deleted from the mail

Figure 3.5.7.2



3.5.8 DI SA

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.

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Line Status	+ New DISA Manage DISA	
Basic 📀 Extensions Trunks Outbound Routes	No DISA Defined	III
Auto Provision Inbound Call Control		
IVR Queues		
Custom Prompts		
Ring Groups		
Inbound Routes Blacklist		
Internal Settings 🔹 🔕		
Options		
Business Hours Feature Codes		
SIP Settings		
IAX Settings		
Voicemail Settings		
DISA		~
🙆 Done	🍏 Internet	

Figure 3.5.8.1

To add a new DISA application, click the New DISA button.



New DISA		X
General		
Name	D :	
PIN #	D :	
Response Timeout	D : 10	
Digit Timeout	D: 5	
Member Outbound Routes		
Available Outbound Routes		Selected Outbound Routes
pstnout	»»	
	→	
	<u>←</u>	
	**	
✓	Save 🔀 Cancel	

Figure 3.5.8.2

1) General

·DISA Name

Give this DISA application a name to help you identify it.

•PIN

The password for this DISA .

·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. Default is 10 seconds.

·Digit Timeout

The maximum amount of time permitted between each digit when the user is dialing an extension number. Default is 5 seconds.

2) Member Outbound Routes

Used to set the outbound routes that can be accessed from this DISA .

3.5.9 Conferencing

Conference Calls increase employee efficiency and productivity, and provide a more cost-effective way to hold meetings.

Extension

This is the number dialed to reach this Conference Room.

•Admin

Admin can kick a user out and can lock the conference room.



•Pin

Set a PIN # that must be entered in order to access this conference room (i.e. 1234).

Edit Conference Room 640	X
Extension : 640	
Admin 🛈 :	
PIN #0:	
Save X Cancel	

Figure 3.5.9

3.5.10 Paging Groups

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 Other Settings -> Feature Codes screen.

This feature is supported by the following SIP phones:

Yealink's T28, T26, T22, T20, T10T, T9CM. Other SIP devices may also work with this feature but are not officially supported.

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



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Address 🙆 http://192.168.5.18	6/cg/WebCGI?1000 💌 🔁 Goo 链接
MyPBX	Embedded Hybrid IP-PBX for Small Businesses
Status Monitor 🔹	Paging Groups 🗄
Line Status	Paging Groups
Basic 🔊 Extensions Trunks Outbound Routes Auto Provision	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 Other Settings -> Feature Codes screen. This feature is supported by the following SIP phones: Yealink's T28,T26,T22,T20,T10T,T9CM. Other SIP devices may also work with this feature but are not officially supported.
Inbound Call Control 🔹	+ New Paging Group
IVR Queues Custom Prompts Ring Groups	No Paging Groups Defined
Inbound Routes Blacklist	
Internal Settings Options Business Hours Feature Codes SIP Settings IAX Settings Voicemail Settings	
DISA	Martinet 22
é	e Internet

Figure 3.5.10.1

·Paging Group Number

Defines the numbered extension that may be dialed to reach this group.

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.

New Paging Group)	(
Paging Group Nun Du	ber:0: 630 lex:0: 🔽		
Paging Group members			ך
Available Extensions		Selected	
500(SIP)	▲ >>		
501(SIP) 502(SIP)	_		
503(SIP)			
504(SIP) 505(SIP)			
506(SIP)			
507(SIP)	× (**		
L			
	🖌 Save 🛛 🗶 Ca	ancel	

Figure 3.5.10.2



3.5.11 DNIS Settings

DNIS (Dialed Number Identification Service) is a telephone service that identifies for the receiver of a call the number that the caller dialed.

Note:

1. DID number is not available in PSTN/GSM/UMTS trunks

2. If DID is not configured here, all the calls via this trunk will show the DNIS instead of the original caller ID

NIS Ø				
		DNIS		
Note:				
1.PSTN trunk and GSM/UMTS trun				
2.If you do not set the DID number,	, all calls through this trunk will sho	w the DNIS name as Caller Name	в.	
+ Add DNIS				
Trunk Name	Enable DNIS	DNIS Name	DID Number	
pstn4(FXO)	off		-	🖌 Edit 🗴 Delete
pstn5(FXO)	off		-	🖌 Edit 🗴 Delete
pstn6(FXO)	off	-	-	🖌 Edit 🔀 Delete
BriTrunk8(BRI)	off		-	🖌 Edit 🗴 Delete
/				

Figure 3.5.11

3.5.12 PIN User Settings

PIN User are used to manage lists of PINs that can be used to access restricted features such as Outbound Routes. If user use PIN User call out, system will auto record the PIN in the call detail records.

- 1) Options
- ·Access Code

.Dial this code to access PIN.

•Prompt for Entry

Prompt caller enter the PIN Number.

•Prompt for Entry Failure

Prompt the caller when an invalid PIN is entered.

2) PIN User

MyPBX 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.

• PIN 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 you can continue making a call to such a number.



• The system administrator can also configure you to have to enter a PIN before making any external call.

Name

A character-based name for this PIN list, i.e. 'YeastarPIN'

·PIN List

Enter a list of one or more PINs, One PIN per line.

·Outbound Route

PIN User can use those outbound route to make call out.

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MyPBX	Embedded Hybrid IP-PBX for S	Small Businesses		Logout
Status Monitor 🔹	PIN User Settings IPA			
Line Status	+ New PIN User	PIN User Settings		
Basic 🙁				
Extensions	Name	PIN List		
Trunks	PINNumber	0592-0596-0599	🐕 Edit 😕 Delete	
Outbound Routes	Options			
Auto Provision	Options	Access Code: *89		
Inbound Call Control 🔹				
IVR		Prompt For Entry: pinuser-entry		
Queues		Prompt For Entry Failure: pinuser-error 🕑		
Custom Prompts		🗸 Save 🛛 🗶 Cancel		
Ring Groups				
Inbound Routes				
Blacklist				
Internal Settings 🔹				
Options				
Business Hours				
Feature Codes				
SIP Settings				
IAX Settings				
Voicemail Settings				
DISA				~
🙆 Done			1 🕲 II	nternet 🛒

Figure 3.5.12

3.5.13 Callback Settings

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

Note:

1. If you'd like to use callback feature, please make sure if 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.

·Allow All Numbers



If you want to apply Callback function to all incoming numbers, please tick Allow All numbers.

Follow the step to use this function.

Step 1: Enable Callback.

Inbound Routes – Choose "Yes" on" Enable Callback" to enable this function. Refer to **<u>chapter 3.4.5.1</u>**

create New Inbound Route	х
General	
Route Name	
DID Number 🛈 :	
Extension 🛈 :	
Caller ID Number 🛈 :	
Distinctive Ringtone 🛈 :	
Enable Callback : Yes Callback Settings	

Figure 3.5.13.1

Step 2: Create Callback number

New Callback	Х
Callback Number:	
Save X Cancel	
Figure 3.5.13.2	

Step 3: Create Callback Rules

You will need to create callback rules when the system should strip or add digits.

·Trunk Name

Choose the trunk with callback rules

·Strip digits from front

Define how many digits will be stripped from the call in number before the callback is placed. For example, when you call from number 123456789 into MyPBX, the caller ID is 0123456789, but you can only call 123456789 successfully from MyPBX trunk. You should configure number 0123456789 as the call back number and strip 1 digit before the callback is placed

·Prepend before dialing

Define digits added before a callback number before the callback is placed. For example, the call in number (Caller ID) is 123456789, MyPBX need to send 9123456789 to its trunk when call to this number. You should configure



123456789 as the call back number and add 9 before the callback is placed. You can add 'w' for analog trunks for some delay too.

Create Callback Rules	х
Trunk Name : 1234(FX0)	
Strip	
Prepend 🛈 : before dialing	
Save X Cancel	

Figure 3.5.13.3

3.5.14 Speed Dial Settings

1) Options

•The prefix of speed dial

The prefix should be dialed before the speed dial number. Default is *99.

2) Add new speed dial.

·Source Number

The speed dial number.

·Destination Number

The number you want to call.

e.g. The source number is "123". The destination number is 5503305. The prefix number is *99. You can use an extension with any type to dial *99123, then it will call to number 5503305.

Note: Don't forget to add the outbound dial prefix if you would like to dial the speed dial number through trunk.



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Line Status	+ New Speed Dial	Speed Dial Settings	
Basic 🙁			=
Extensions	Source Number	Destination Number	
Trunks	123	5503305	X Delete
Outbound Routes	Options		
Auto Provision		e prefix of speed dial 0: *99	
Inbound Call Control \land		e prenz or speed dial 🔍 . 33	
IVR		Save X Cancel	
Queues			
Custom Prompts			
Ring Groups			
Inbound Routes			
Blacklist			
Internal Settings 🔹 🔕			
Options			
Business Hours			
Feature Codes			
SIP Settings			
IAX Settings			
Voicemail Settings			
DISA			<u> </u>
ど Done			🔮 Internet

Figure 3.5.14

3.5.15 Music on Hold Prompts

The administrator can upload on hold music as follows:

1) Click 'Upload Music on Prompt '

2) Click 'Browse' to choose the desired audio file.

3) Click 'Upload' to upload the selected file.

Note: The sound file format should be as follows: GSM 6.10, 8.000kHz, Mono, 1kb/sec, The file size must not be greater than 1.8MB.

Upload Music On Hold Prompt	X
WAV format: GSM 6.10 8kHz, Mono, 1Kb/sThe file size must not be greater than 1.8MB!	
Choose file to upload ①: 浏览	
Upload 🔀 Cancel	

Figure 3.5.15

s3.6 Network Settings

3.6.1 LAN Settings

·DHCP

If this option is set, MyPBX will use DHCP to get an available IP address from



your local network. Not recommended.

·Enable SSH

This is the advance way to access the device, you can use the putty software to access the device. In the SSH access, you can do more advance setting and debug.

•Port: the default is 8022,

•Hostname Set the host name for MyPBX.

• IP Address Set the IP Address for MyPBX.

•Subnet Mask Set the subnet mask for MyPBX.

•Gateway Set the gateway for MyPBX.

•**Primary DNS** Set the primary DNS for MyPBX.

•Secondary DNS Set the secondary DNS for MyPBX.

•**IP Address2** Set the second IP Address for MyPBX.

•Subnet Mask2 Set the second subnet mask for MyPBX.



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My PBX	
IVIYIDA	Embedded Hybrid IP-PBX for Small Businesses
Status Monitor 🔹	LAN Settings Φ
Line Status	
	LAN Settings
Basic 🙁	DHCP: No 🗸
Extensions Trunks	Enable SSH: Yes V Port: 8022
Outbound Routes	Hostname: MvPBX
Auto Provision	IP Address: 192.168.5.186
Inbound Call Control 🏾 🔕	Subnet Mask : 255.255.0
Queues	Gateway: 192.188.5.1
Custom Prompts	Primary DNS : 192.168.5.1
Ring Groups	Secondary DNS :
Inbound Routes	IP Address2:
Blacklist	Subnet Mask2:
Internal Settings 🛛 🔕	
Options	🖌 Save 🛛 🔀 Cancel
Business Hours	
Feature Codes SIP Settings	
IAX Settings	
Voicemail Settings	
DISA	
🕘 Done	🍯 Internet

Figure 3.6.1

3.6.2 WAN Settings

It supports three connection types: DHCP (obtain an IP automatically), PPPoE, Static IP Address.

·DHCP

.If your ISP says that you are connecting through DHCP or a dynamic IP address from your ISP, perform these steps:

Step1: Select **DHCP** as the WAN Connection Type.

Step2: Click **Save** button to save the settings.

Step3: Reboot the device.

Step4: Check the WAN's Status (System Info \rightarrow WAN \rightarrow Status).

Static IP Address

If your ISP says that you are connecting through a static or fixed IP address from your ISP, perform these steps:

Step1: Select Static IP Address as the WAN Connection Type.

Step2: Enter the IP Address.

Step3: Enter the Subnet Mask.

Step4: Enter the Gateway Address.

Step5: Enter the Primary DNS and Secondary DNS.

Step6: Click the **Save** button to save the settings.

Step7: Reboot the device.



Step8: Check the WAN's Status (System Info \rightarrow WAN \rightarrow Status).

·PPPoE

If your DSL provider says that you are connecting through PPPoE or if you normally enter a user name and password to access the Internet, perform these steps:

Step1: Select **PPPoE** as the WAN Connection Type.

Step2: Enter the User Name.

Step3: Enter the Password.

Step4: Click the **Save** button to save the settings.

Step5: Reboot the device.

Step6: Check the WAN's Status (System Info \rightarrow WAN \rightarrow Status).

🕨 WAN Settings 🔅

WAN Settings	
	Use WAN:
	CDHCP
	Static IP Address
	IP Address:
	Subnet Mask:
	Default Gateway:
	Primary DNS:
	Secondary DNS:
	C PPPoE
	User Name:
	Password:
L	Save X Cancel

Figure 3.6.2

3.6.3 Static Route

MyPBX 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 MyPBX to force it goes out through different gateway when access to different internet. The default gateway priority of MyPBX from high to low is OpenVPN->WAN port->LAN port.

Route table
 The current route rules of MyPBX

Destination

The destination network to be accessed to by MyPBX

Subnet Mask

Specify the destination network portion.



Gateway

Which gateway MyPBX 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.

2) Static Route Rules

You can add new static route rules here.

	Routi	ing Table		
Destination	Subnet Mask	Gateway	Metric	Interface
192.168.4.0	255.255.254.0	0.0.0.0	0	LAN
224.0.0.0	224.0.0.0	0.0.0.0	0	LAN
0.0.0.0	0.0.0.0	192.168.5.1	0	LAN
	Static R	Route Rules		
Destination ①:	Subnet Mask: Gate	way: Metric 🛈 :	Inter	face : LAN 👻 🕂 Ad
No Static Routes Defined				

Figure 3.6.3

3.6.4 Firewall

Firewalls are used to prevent unauthorized Internet users from accessing private networks connected to the Internet, especially intranets. All messages entering or leaving the intranet pass through the firewall, which examines each message and blocks those that do not meet the specified security criteria.



Common Rules Add Rule No Common Rules Defined Auto Defense Add Rule	
No Common Rules Defined	
Auto Defense	
Add Rule	
No Auto Defense Rules Defined	
IP Blacklist	
+ Add Rule	IP Blacklist Mana
Port Protocol Rate	
5060 UDP 120/60s	🕅 Edit 🗴 Delete
5060 UDP 40/2s	🕅 Edit 🗴 Delete
8022 TCP 5/60s	🔊 Edit 🗴 Delete

Figure 3.6.4

1) Enable Firewall

Enable the firewall to protect the device. You should reboot the device to let the firewall run successfully.

2) Common Rules

Name

A name for this rule , e.g. 'HTTP'.

Description

Simple description for this rule . E.g.: Accept the specific host to access the web interface for configuration.

Protocol

The protocols for this rule .

·Port

Initial port should be on the left and end port should be on the right. The end port must be equal to or greater than start port.

٠IP

The IP address for this rule . The format of IP address is: IP/mask Ex: 192.168.5.100/255.255.255.255 for IP 192.168.5.100 Ex: 216.207.245.47/255.255.255.255 for IP 216.207.245.47 Ex:192.168.5.0/255.255.255.0 for IP from 192.168.5.0 to 192.168.5.255 .

·MAC Address



The format of MAC Address is XX: XX: XX: XX: XX: XX, X means $0 \sim 9$ or $A \sim F$ in hex, the $A \sim F$ are not case sensitive.

Action

Accept: Accept the access from remote hosts. Drop: Drop the access from remote hosts. Ignore: Ignore the access.

New firewall rule	X
Name 🛈 :	
Description 🛈 :	
	×
Protocol 🛈 :	TCP 🗸
Port ⁽¹⁾ :	0 : 0
IP🛈:	/
MAC Address 🛈 :	
Action 🛈 :	Drop 💌
	Save X Cancel

Figure 3.6.4.1

3) Auto Defense•PortAuto defense port, e.g.: 8022.

Protocol

Auto defense protocol, TCP or UDP.

Rate

The maximum packets or connections can be handled per unit time.

E.g.: (Port: 8022 Protocol: TCP Rate: 10/minute) means maximum 10 TCP connection to port 8022 can be handled per minute, the eleventh connection will be refused directly.

New auto defense rule	X
Port ¹ : 0	
Protocol 👀: TCP 🔜	
Rate 0 : 🛛 🗸 Second 💌	
Save Save	

Figure 3.6.4.2



4) IP Blacklist

You can set some packets accept speed rules here. When a IP address which hasn't been accepted in common rules sends packets faster than the allowed speed, it will be set as black IP address and blocked automatically.

a) New Rule •Port Auto defense port

·Protocol

Auto defense protocol. TCP or UDP.

·IP Packets

Allowed IP packets number in the specific time interval.

·Time interval

The time interval to receive IP packets. For example, IP packets 90,time interval 60 means 90 IP packets are allowed in 60 seconds.

New Auto Blacklist Rules	Х
Port ¹ :	
Protocol 🛈 : UDP 💟	
IP Packets	
Time Interval ¹ : seconds	
Save Xancel	

Figure 3.6.4.3

b) IP Blacklist Manage

You can manage the IP addresses which are blocked automatically here.

		IP Blacklist		
				Go Back to Firewall Rules Settings
Attacked Time	Protocol	Attacked Port	Source IP address	
1970-Jan-819:58	UDP	5060	203.117.31.243	× Delete

Figure 3.6.4.4

5) Other Settings

·Disable Ping

Enable this item, net ping from remote hosts will be dropped.

·Drop All

When you enable 'Drop All' feature, system will drop all packets or connection from other hosts if there are no other rules defined. To avoid locking the devices, at least one 'TCP' accept common rule must be created for port used for SSH



access, port used for HTTP access and port sued for CGI access.

3.6.5 DHCP Server

Dynamic Host Configuration Protocol (DHCP) is a network protocol that enables a server to automatically assign an IP address to a computer from a defined range of numbers (i.e., a scope) configured for a given network. You can set a local network NTP server for MyPBX here too.

MyPBX	Embedded Hybrid IP-PBX for Small Businesses	copert
Status Monitor 🙁 Line Status	DHCP Server DHCP.Server	
Basic 🏾 🏝	DHCP	is not running
Extensions Trunks	E CONTRACTOR OF CONTRACTOR OFO	Enable
Outbound Routes	Routers :	192 168 5 1
Auto Provision	Subnet Mask :	255 255 255 0
Inbound Call Control 🙁	Primary DNS :	192 168 5 1
NR Queues	Secondary DNS	
Custom Prompts	Allow IP Address From:	192.168.5.2
Ring Groups	Te	192 168 5 254
Inbound Routes Blacklist	NTP Sever.	
Options Options Business Hours Feature Codes SIP Settings HX: Settings Volcemal Settings DIRA Conferencing Paging Groups PH User Settings	Sa	w X Canod
Speed Dial Settings		

Figure 3.6.5

3.6.6 VLAN Settings

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.

1) VLAN Over Lan

·NO.1

Click the NO.1 you can edit the first VLAN over Lan.

·VLAN Number

.The VLAN Number is a unique value you assign to each VLAN on a single device.

VLAN IP Address

Set the IP Address for MyPBX VLAN over Lan.

·VLAN Subnet Mask



Set the Subnet Mask for MyPBX VLAN over Lan.

·Default Gateway

Set the Default Gateway for MyPBX VLAN over Lan

•NO.2

Click the NO.2 you can edit the first VLAN over Lan.

VLAN Number

.The VLAN Number is a unique value you assign to each VLAN on a single device.

VLAN IP Address

Set the IP Address for MyPBX VLAN over Lan.

·VLAN Subnet Mask

Set the Subnet Mask for MyPBX VLAN over Lan.

·Default Gateway

Set the Default Gateway for MyPBX VLAN over Lan.

2) VLAN Over Wan

•NO.1

Click the NO.1 you can edit the first VLAN over Wan.

·VLAN Number

.The VLAN Number is a unique value you assign to each VLAN on a single device.

VLAN IP Address

Set the IP Address for MyPBX VLAN over Wan.

·VLAN Subnet Mask

Set the Subnet Mask for MyPBX VLAN over Wan.

·Default Gateway

Set the Default Gateway for MyPBX VLAN over Wan.

•NO.2

Click the NO.2 you can edit the first VLAN over Wan.

·VLAN Number

.The VLAN Number is a unique value you assign to each VLAN on a single device.

VLAN IP Address

Set the IP Address for MyPBX VLAN over Wan.



VLAN Subnet Mask

Set the Subnet Mask for MyPBX VLAN over Wan.

·Default Gateway

Set the Default Gateway for MyPBX VLAN over Wan.

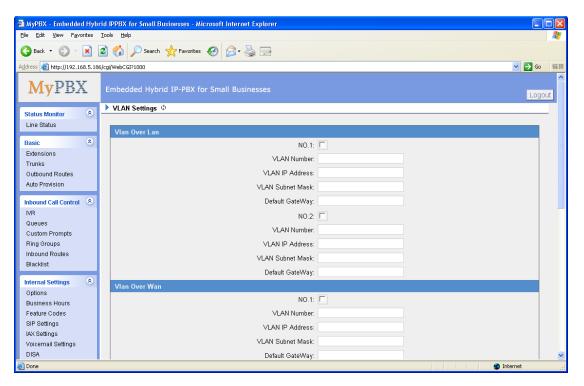


Figure 3.6.6

3.6.7 VPN Settings

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. MyPBX supports OpenVPN.

Enable VPN

·Import VPN Config

Import configuration file of OpenVPN. Don't configure 'user' and 'group' in the 'config' file.



VPN Settings III

VPN Settings		
	Enable VPN:	
	Import VPN Config	Browse
	Import	
	V Save 💥 Cancel	

Figure 3.6.7

3.6.8 DDNS Settings

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.

•Enable DDNS

·DDNS Server

Select the DDNS server you sign up for service.

·User Name

User name the DDNS server provides you.

·Password

User account's password .

·Host Name

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

▶ DDNS Settings ♦
DDNS Settings
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 <u>dyndns org, freedns afraid org, www.no-ip.com</u> , <u>www.zoneedit.com</u>
DDNS is not running
Enable DDNS:
DDNS Server: dyndns.org
User Name:
Password:
Host Name:
✓ Save 💥 Cancel

Figure 3.6.8



3.7 System Settings

3.7.1 External Storage

The External Storage feature is used to extend storage space. Once configured, the files (voicemail, call recording files, CDR files) created before the configured days will be moved to the Net-Disk.

Auto-Backup extends the allocated disk space for backing up critical files. When properly configured, MyPBX will move all qualified files to a Windows PC every 30 minutes. For the voicemail files and recoding files, they must be created before Auto-Backup has been configured.

How to configure External Storage, please see **APPENDIX B How to Configure Autobackup**.

🗿 MyPBX - Embedded Hybrid IPPBX for Small Businesses - Microsoft Internet Explorer 📃 📃		
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🚱 Back + 💿 - 🐹 😰 🏠 🔎 Search 👷 Favorites 🚱 🔗 + 🌺 🥽		
Agdress 🍓 http://192.168.5.186/cgi/WebCGF21000	链接	
MyPBX Embedded Hybrid IP-PBX for Small Businesses	 ut	
Status Monitor (2) External Storage Settings (4)	_	
Line Status External Storage Settings		
Basic 💫 The External Storage feature is used to extend storage space. Once configured, the files(voicemail, call recording files, CDR files) created before the	=	
Extensions configured days will be moved to the Net-Disk.		
Trunks Outbound Routes	_	
Auto Provision Step 1: Create a Net/Disk on a chosen computer		
Step 2: Input the Net-Disk properties		
Inbound Call Control 🚳 Net-Disk Host/IP:		
NR Net-Disk Share Name:		
Custom Prompts Net-Disk Access User Name:		
Ring Groups Net-Disk Access Password:		
Inbound Routes		
Blacklist Move files created before: 5 💌 days ago		
Internal Settings (2)		
Options Cancel		
Business Hours Step 3: Save Net-Disk settings		
Feature Codes Step 4: Make sure the settings are successfully completed SIP Settings		
SIF Seturings		
Volcemal Settings		
DISA	~	
🛃 Done		

Figure 3.7.1

3.7.2 Password Settings

The default password is '**password**'. To change the password, enter the new password and click update. The system will then prompt you re-login using your new password.



🗿 MyPBX - Embedded Hybrid IPPBX for Small Businesses - Microsoft Internet Explorer	
MyPBX - Embedded Hybrid IPPBX for Small Businesses - Microsoft Internet Explorer Eile Edit View Favorites Tools Help	
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Agdress 🗿 http://192.168.5.166/cgi/Web/CG171000 💌 🆻 Go	链接
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MyPBX Embedded Hybrid IP-PBX for Small Businesses	aut
Channe Password &	_
Status Monitor 8	-
Line Status Change Password	
Basic S Enter New Password:	=
Extensions	
Trunks Retype New Password:	
Outbound Routes	
Auto Provision	
Inbound Call Control 🛞	
WR .	-
Queues	
Custom Prompts	
Ring Groups	
Inbound Routes	
Blacklist	
Internal Settings 🛞	
Options	
Business Hours	
Feature Codes	
SIPSettings	
IAX Settings Voicemail Settings	
voicemail settings	~
© Done Of The sector of the se	

Figure 3.7.2

3.7.3 System Prompts

MyPBX have prompts of many languages. You can download the appropriate language you need. MyPBX can support American English, Australian English, Chinese, Dutch, French, Canadian French, German, Greek, Hungarian, Italian, Polish, Portuguese, Brazilian Portuguese, Russian, Spanish, Mexican Spanish, Turkish, Thai, Korean currently.

Note:

Auto-detection is highly recommended. But if you prefer to download via HTTP or TFTP server, please contact the local dealer for the prompts.



My PBX	Embedded Hybrid IP-PBX for Small Businesses	Logou
Status Monitor Line Status Basic Extensions Tunnia Outbound Routes Phone Provisioning Inbound Call Control NR Ources Outsom Prompts Ring Groups	System Prompts Settings Prompts Download Prompts Download Note: Auto-detection is highly recommended. But if you prefer to download via HTTP or TETP server, please contact the local dealer for the prompts: Local Prompts: English Download Mode: Auto Detection Prompts: English	
Ining Groups Inhound Routes Blactilist Internal Settings Options Business Hours Evature Codes SUP Settings HX Settings SMS Settings DISA Conferences	Download	

Figure 3.7.3

3.7.4 Date and Time

Set the date and time for MyPBX.

•Time Zone

You can choose your time zone here.

·Daylight Saving Time

Set the mode to Automatic or disabled

Automatically Synchronize With an Internet Time Server

Input the NTP server so that MyPBX will update the time automatically

Set Date & Time Manually

▶ Date & Time 𝔅	
Date & Time	
Server Time:	Sun Jun 10 4:43:11 2012
Time Zone:	0 United Kingdom (London)
Daylight Saving Time:	Automatic
•	Automatically Synchronize With An Internet Time Server
	NTP Server: pool.ntp.org
C	Set Date & Time Manually
	Date
	Time 🔍 AM 👻

Figure 3.7.4



3.7.5 Backup and Restore

🗟 MyPBX - Embedded Hybrid IPPBX for Small Businesses - Microsoft Internet Explorer					
Ele Edit View Favorites Iools Help 🧗					
🕒 Back 👻 🐑 💌 📘	😋 Back 🔻 📀 - 🔣 🛃 🏠 🔎 Search 👷 Favorites 🔣 🔗 - 👹				
Address 🕘 http://192.168.5.18	5/cgi/WebCGI?1000 🔽 🔁 Go 链接				
MyPBX	Embedded Hybrid IP-PBX for Small Businesses				
Status Monitor 🔹	Backup/Restore Configuration Information 💠				
Line Status	Manage Configuration Backups				
Basic 🙁	+ Create a New Backup Upload a Backup				
Extensions	C List Of Previous Configuration Backups:				
Trunks	# Name Date Options				
Outbound Routes Auto Provision	1 backup_2011mar28_161735_2011mar28.tar Mon Mar 28 16:26:43 2011 Download from System Restore Previous Configuration from Backup				
Inbound Call Control WR Queues Custom Prompts Ring Groups Inbound Routes Blacklist					
Internal Settings 🙁					
Business Hours					
Feature Codes					
SIP Settings					
IAX Settings Voicemail Settings					
DISA					
ど Done	🔤 🔤 🖉 Internet				

Figure 3.7.5

3.7.6 Reset and Reboot

·Reboot System

Warning: Rebooting the system will terminate all active calls!

•Reset to Factory Defaults

Warning: A factory reset will erase all configuration data on the system. Please do not turn off the system until the RUN light begins blinking. Any power interruption during this time could cause damage to the system.



🗿 MyPBX - Embedded Hybrid IPPBX for Small Businesses - Microsoft Internet Explorer				
<u>File Edit View Favorites</u>	Iools Help			
🚱 Back 🝷 🐑 🔺	🗟 🕜 🔎 Search 👷 Favorites 🤣 🎯 🛁			
Address 🕘 http://192.168.5.18	6/cgi/webCGI?1000 🔽 🄁 Go 雄銀			
MyPBX	Embedded Hybrid IP-PBX for Small Businesses			
Status Monitor 🛞	Reset and Reboot Options \$			
Line Status	Reboot System			
Basic 🔹	Reboot System			
Trunks Outbound Routes Auto Provision	Warning:Rebooting the system will terminate all active calls!			
Inbound Call Control 🛞				
IVR	Reset to Factory Defaults			
Queues				
Custom Prompts	Reset to Factory Defaults			
Ring Groups	Note to Factory Doland			
Inbound Routes	Warning:A factory reset will erase all configuration data on the system.			
Blacklist	Please do not turn of the system until the RUN linght begins blinking. Any power interruption during this time could cause			
Internal Settings 🔹 🔕	damage to the system.			
Options	Reset to Factory Defaults			
Business Hours	resettor actory beautis			
Feature Codes SIP Settings				
IAX Settings				
Voicemail Settings				
DISA	×			
🕘 Done	🍅 Internet			

Figure 3.7.6

3.7.7 Firmware Update

Upgrading of the firmware is possible through the Administrator web interface using a TFTP Server or an HTTP URL.

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

More Information, please see http://www.yeastar.com/download/MyPBX/

Note:

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.



A MyPBX - Embedded Hyb	rid IPPBX for Small Businesses - Microsoft Internet Explorer	
File Edit View Favorites	,	
	🔹 🏠 🔎 Search 🤺 Favorites 🔣 🔗 - 🌺 🚍	
Address 🕘 http://192.168.5.18	6/cgi/WebCGT?1000	✓ → Go 链接
My PBX	First added to be that TP, DDV for Constitutions	<u>^</u>
IVIYIDA	Embedded Hybrid IP-PBX for Small Businesses	Logout
Status Monitor 🔹	🕨 Update System Firmware ψ	
Line Status		
	C Firmware Download Source:	
Basic 🏾 🏝	Firmware Download Source:	II
Extensions	HTTP URL C TFTP Server	
Trunks Outbound Routes	HTTP URL:	
Auto Provision	Reset Configuration to Factory	
Addit tovision		
Inbound Call Control \land		
IVR	+ Start	
Queues		
Custom Prompts		
Ring Groups Inbound Routes		
Inpound Routes Blacklist		
Internal Settings 🛛 🔕		
Options		
Business Hours		
Feature Codes		
SIP Settings IAX Settings		
Voicemail Settings		
DISA		~
🙆 Done		🔮 Internet

Figure 3.7.7

3.7.8 Hot Standby

This feature can ensure that the system runs stably.

If you want to use this feature, you should have 2 MyPBX. And the configuration of the 2 MyPBX should be same exactly, including hardware version, firmware version, the modules, and the position where the module is installed.

When you are using this feature, one MyPBX should be configured as primary, and the other should be configured as secondary. When the primary is down, the secondary will be active automatically and take over the service. At the same time, MyPBX can notify the administrator this failure using email and/or SMS.

At any time, the status of one MyPBX is "Active" and the other is "Standby". When we make any change on the MyPBX whose status is "Active", and when you click "Apply Changes" button, the configuration will be synchronized to the MyPBX whose status is "Standby". So the configuration on the 2 MyPBX is same all the time.

By default, the status of primary is "Active" and the status of secondary is "Standby". When the primary is down and the secondary will take over the service, the status of secondary will change to "Active" and status of primary will change to "Standby".



Step 1 Verify the basic information of the servers

In this step, the system information and port information will be detected automatically.

Step 2 Configure the IP address and hostname of the primary and secondary servers

This step explains how to configure the IP and hostname of the 2 MyPBX using an example.

Notice: The 2 MyPBX MUST have different IP and Hostname.

Step 3 Configure Hot Standby Settings (Example) You can configure detail information of Hot Standby.

Basic

Below "Basic", you can check/configure the following: Running Status: Check the device status, "Disable", "Active" and "Standby". Enable: Yes/No Mode: Primary/Secondary Primary/Secondary Hostname: The hostname of the other MyPBX Primary/Secondary IP: The IP of the other MyPBX Access code: The 2 MyPBX must have the same access code. Virtual IP: The IP which the client use to communicate the "Active" server. Network Connection Detection: commonly gateway

Down Notification:

In this section, you can choose how to notify the administrator when the server is down. You can choose "None", "Email", "SMS" and "Both".

Advanced

Keep Alive: Set the interval how long MyPBX will send packets to another MyPBX Dead Time: The time after which heartbeat keep-alive packets get no response, the system will deem that the other MyPBX has been down.

Disk Synchronization: Choose disk synchronization method.

If you want to enable Hot Standby, please refer to <u>Appendix I</u>.



MyPBX	Embedded Hybrid IP-PBX for Your Businesses Logout
Status Monitor	▶ HotStandBy Settings Φ
Line Status	HotStandBy Settings
Basic (R) Extensions Trunks Outbound Routes Phone Provisioning	Note 1: Before enabling the Host Standby feature, please make sure that the two servers in the fallover pair are the same model, have the same modules installed in the same slots, the same hardware configurations and firmware version. Note 2: Please configure the primary server first and configure the secondary server only after the running status of primary server becomes "active". Step 1: Verify the basic information of the server
Inbound Call Control	Step 2: Configure the IP address and hostname of the primary and secondary servers
MR	Step 3: Configure Hot Standby Settings (Example)
Queues	Basic
Custom Prompts Ring Groups	Running Status: Active
Inbound Routes	Enable: Yes =
Blacklist	Mode 😯 Penary 📼
Internal Settings (*)	Secondary HostName 0 : MyPBX182
Options	Secondary Ip0: 192 168.5.182
Business Hours	Access Code 👀 : •••
Feature Codes	Virtual IP Address 📀 : 192 168.5.183/255 255.254.0
SIP Settings IAX Settings	Network Connection Detection Q: 192.168.5.1
Voicemail Settings	
SMS Settings	Down Notification
DISA Conferences	Notification Methods • 800 • SMS Settings
Paging Groups	Email List 0 : shanglengshang sk@pmal.com
DNIS Settings	
PIN User Settings	SMS List 1990201067
Callback Settings Speed Dial Settings	
Music on Hold Prompts	Advanced A
Network Settings	Heartbeat Options
LAN Settings	Keep Alive 🔮 2
WAN Settings	Dead Time 🔮 120 s
Static Route	
Firewall DHCP Server	Synchronization Options
VLAN Settings	Disk Synchronization 🕘 : Timins Synchronization 💌
VPN Settings	Synchronization Time: 92 - 00 -
DDNS Settings	
System Settings 🙁 External Storage Password Settings	Seve X Cancel

Figure 3.7.8

3.7.9 Storage Management

You can check the information of the hard disk, manage the disk and do some related configuration.

·Device Information

It's the information of the hard disk.

·Disk Management

You can format disk or clean up the disk here.

Note: Please check if you need to back up these files before formatting or clearing up the hard disk. Don't power off the device during the period.

·Other Settings

You can:

- a. Save Voicemails in the Disk
- b. Save One Touch Recording Files in the Disk
- c. Save CDR in the Disk

If you want to enable auto recording, please refer to Appendix J



MyPBX	Embedded Hybrid IP-PBX for Your Businesses		Logout
Status Monitor	Storage Management 0		
Line Status	Hard Disk Information		
Basic (*) Extensions Trunks	Device Information Model: ST9320325&S	Vendor: ATA	
Outbound Routes	Type: Direct-Access	Revision: 0001	
Auto Provision	Type: Direct-Access	Revision: 0001	
	Disk Size: 293.41 GB	Storage Info: 0%	
Inbound Call Control			
IVR			
Queues Custom Promots	Disk Management		
Ring Groups	Note: Please backup the files in the hard disk before cleaning up or formatting it.		
Inbound Routes			
Blacklist	Format Disk	Clean up Disk	
Internal Settings®			
Options			
Business Hours	Other Settings		
Feature Codes			
SIP Settings	Save Voicemails in the Disk: 1	io 🗸	
IAX Settings	Save One Touch Recording Files in the Disk: 1	io 🖕	
Voicemail Settings SMS Settines			
DISA	Save CDR in the Disk: 1	• •	
Conferencine	√ Save	♥ Cancel]	
Paging Groups		Cancer	

Figure 3.7.9

3.8 Reports

3.8.1 Call Logs

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 filter the call logs by call date, caller/callee, trunk, duration, billing duration, status, communication type.

tatus Monitor	Call Logs 🔅									
Status Monitor 🙁	Search Condition Start Date	11 Jan 1	970	End Date	11 Jan 1970	Caller/Ca	lee	Trunk	A8 🔛	
asic (*) Extensions	Duration			Billing Duration		Sta	tus: 🗚 🔛	Communication Type	Al Start Se	arch
runks Outbound Routes	Download the records	× Delet	e The records						Show.1-7 Total: 7	View: 25
uto Provision	Time	Caller	Callee	Source Trunk	Destination Trunk	Duration	Billing Duration	Status	Communication Type	
bound Call Control	1970-01-11 02 02 59	500	640			14	14	ANSWERED	Internal	X Delete
R	1970-01-11 01 52 00	500	504			11	9	ANSWERED	Internal	X Delete
Queues	1970-01-11 01:51:30	500	504			6	6	ANSWERED	Internal	X Delete
Custom Prompts	1970-01-11 01 50:40	500	504			21	21	ANSWERED	Internal	× Deiete
Ring Groups	1970-01-11 01 50 30	500	504			6	6	ANSWERED	Internal	X Delete
lacklist	1970-01-11 01:27:59	500	66046		bizpbx	21	0	NO ANSWER	Outbound	× Delete
ternal Settings	1970-01-11 01 26 45	500	660			3	3	ANSWERED	Internal	X Delete
options Isusiness Hours elaturé Codes IIP Settings XX Settings Volcemail Settings JIBA Satting Coups Satting Coups HI Uger Settings									< <previous next="">> P</previous>	age : 1 /1 G

Figure 3.8.1



3.8.2 System Logs

You can download and delete the system logs of MyPBX.

Options

•Enable Hardware Log

Save the infomation of hardware; (up to 4 log files)

•Enable Normal Log

Save the prompt information; (up to 16 log files)

•Enable Web Log

Save the history of web operations (up to 2 log files)

·Enable Debug Log

Save debug information (up to 2 log files)

System Logs 🕸	1	System Logs Opera	tions
Download Sel	lected Logs × Delete Selected L	ogs	
	Name	Туре	
	web.log	Web	♦ Download
	Enable Hardware Log 🛈	Enable Normal Log	C Enable Web Log
		√ Save X Cancel]

Figure 3.8.2

3.8.3 System Info

General:

Information about hardware version, firmware version and system uptime.

LAN:

Information about hostname, MAC address, IP address, gateway, Primary DNS and Secondary DNS.

Disk Usage:

Disk usage information.

Memory Usage:

Memory usage information .



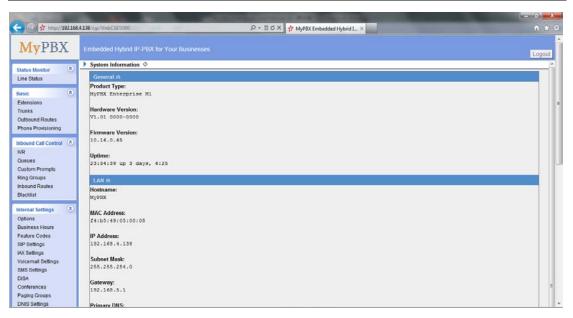


Figure 3.8.3



4. Access MRI

MRI (MyPBX Recording Interface). Users may access MRI by logging into the MRI web interface with their username (extension number) and voicemail password.

4.1 Allow users to access MRI

The extension's 'User Web Interface' option must be checked before the associated user can log into MRI.

Edit Extension - 501	х					
General Type: SP Name : 501 Caller ID : 501						
Voicemail Voicemail Voicemail Access PIN #0: 501						
Mail Setting Enable Send Voicemail Email Address						
Note: Please ensure that the section 'SMTP Settings for Voicemail'(in the 'Voicemail Settings') have been properly configured before using this feature.						
Group Pickup Group						
Follow me Image: Always Follow me: Image: No answer Transfer to: Image: Number						
When Busy Other Options Call Waiting 1 DND 1 Image: Call Waiting 1 Image: Call Waiting 2 Image: Call Waiting 2 <td></td>						
Optional Settings ≫						
Save X Cancel						

Figure 4-1

4.2 User login

Users can access the MRI web interface by navigating to the MyPBX IP address using a web browser. If you are unsure of this address, please contact your



network administrator.

http://192.168.5.186/	Microsoft Internet Explorer
<u>Eile E</u> dit <u>V</u> iew F <u>a</u> vorites	
🕒 Back 🝷 🐑 🐇 💌	💈 🏠 🔎 Search 👷 Favorites 🚱 🎯 - 💺 🔜
Address 🙋 http://192.168.5.18	6/
MyPBX	Embedded Hybrid IP-PBX for Small Businesses
	MyPBX Configuration Panel
Yeastar	User Login
	User Name: 501 Password: •••
	Password: •••
	Login Reset
	Copyright @ 2011 Yeaster Technology, Co., Ltd. All Rights Reserved.
Done	🔮 Internet

Figure 4-2

4.3 Voicemail

Users can check, delete, move and download voicemail files here.

My PBX	Embedded Hybrid IP-PBX	for Your Businesses			Logou
Voicemmil Call Recordings Voicemmil Settings Settings	Voicemail Ø Folder: New Viewing 1-1	Delete 谢 Move to Folder: New 🖵			
	Caller ID	Time Wed Nov 30 10:49:19 AM UTC 2011	Duration 13	Optio Play Delete	Download

Figure 4-3

4.4 Call Recordings

Users can play, delete and download recorded files here.



My PBX	Embedded Hybrid IP-PBX for Your Businesses						
Voicemail Call Recordings Voicemail Settings Settings	Call	Recordings 🌣					
		Caller ID	Time	Duration	Options		
		301	2011-11-30 10:48:43	14	Play Delete Download		
	Viewing 1	-1					

Figure 4-4

4.5 Voicemail Settings

•Voicemail password: new voicemail box password.

•Enter again to confirm: confirm new voicemail box password.

•Email Address: Email address use to receive the voicemail or Fax.

Note: Please ensure that the section 'SMTP Settings For Voicemail' (in the

'Voicemail Settings') have been properly configured before using this feature. •Enable Voicemail

Check this box if the user should have a voicemail account.

·Enable Send Voicemail

Once enabled, the voicemail or Faxex will be sent to email as an attachment.



Figure 4-5

4.6 Settings

You can do some basic setting here. Such as call forwarding, DND, Mobile Extension Number.

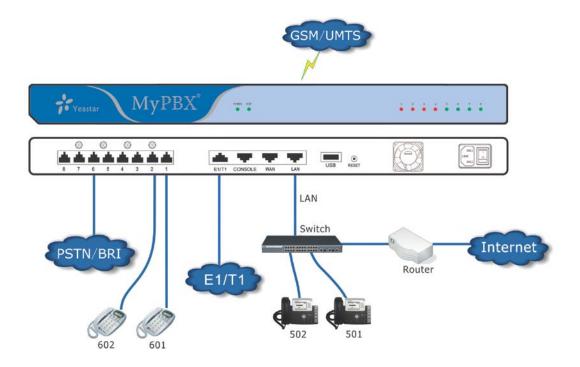


MyPBX	Embedded Hybrid IP-PBX for Small Businesses	Logout
	> Settings 0	
Volcemal Call Recordings Volcemal Settings Settings	Settings Follow Me Voicemail Follow Me Voicemail When Busy Call Wating Call Wating DND Mole Extension Number Out 30 Mobile Extension Number Save Cancel	
	Copyright © 2011 Yeastar Technology Co., Ltd. All Rights Reserved.	

Figure 4-6



5. Use MyPBX



5.1 Make outbound call

To make an outbound call, we need to add trunk first. There are five types of VoIP Trunk:

•Analog Trunk: FXO ports of MyPBX, connected to a local PSTN.

•GSM Trunk: GSM ports of MyPBX, connected to GSM Network.

•BRI Trunk: BRI ports of MyPBX, connected to a local PSTN.

• Vol P Trunk: Connected to remote VOIP service server.

•Service Provider: Connected to service provider server.

What are FXO and FXS?

FXS (Foreign exchange Station) is an interface which drives an analog telephone or FAX machine. FXS interfaces deliver power, provide ringing, and use FXO signaling. FXS interfaces are what allow you to hook telephones and other analog devices to your PBX

FXO (Foreign exchange Office) is an interface that connects to a phone line to supply your PBX with access to a public telephone network. FXO interfaces use FXS signaling. FXO interfaces allow you to connect your PBX to real analog phone lines.



5.1.1 Sample Routing via PSTN Trunk

Let's route all inside extensions through an analog trunk by dialing 9. In Outbound Routes, add a new outbound route as below.

Edit Outbound Route		Х
Route Name🛈 :	pstnout	
Dial Pattern 🛈 :	9.	
Strip 🛈 :	1 digits from	front
Prepend these digits 🛈 :		before dialing
Password:		
─ Member Extensions ①		
Available Extensions		Selected
		500(SIP) 501(SIP) 502(SIP) 503(SIP) 504(SIP) 505(SIP)
Member Trunks		
Available Trunks		Selected
8032(SIP) 192.168.5.190(SPS) pstn6(FXO) GSM11(GSM) BriTrunk8(BRI) BriTrunk7(BRI)		pstn1(FXO) pstn2(FXO)
5	Save X Canc	el

Figure 5-1

As we can see from the outbound route of 'pstnout', all phone numbers starting with 9 will have their first digit stripped off (digit 9) and will be sent to the PSTN (port 1-2).

After we have configured the above, we can dial 9 + local number to dial out via a PSTN line.

Note: Setting number prefix to wild card X and setting Strip to 0 digits from the front will allow all calls to go through this outbound route.



5.1.2 Sample Routing via VoIP Trunk

Let's configure all inside extensions to dial '0' through the VoIP Trunk.

1. Add VoIP service provider

Before we do add this, please make sure you have a VoIP Trunk account. Trunks \rightarrow VoIP Trunk \rightarrow SIP Trunk

Enter your account information on this page, and click Save.

Created New VoIP trunk		Х
Туре:	SIP 💌	
Provider Name:	voipprovider	
Hostname/IP:	voip.6699.org	: 5060
Domain:	voip.6699.org	
User Name:	16885885	
Authorization Name:	16885885	
Password:	•••••	
From User:	16885885	
Online Number 🛈 :		
Maximum Channels 🛈 :	1	
Γ	Enable Outbound Proxy Server	
Transport:	UDP 🗹 Enable SRTP 🛈 : 🗖	
Caller ID 🛈 :		
DOD Setting		
DOD:	Associated Extension: 500 💌	∱Add DOD
	Save X Cancel	

Figure 5-2

2. Add Outbound Routes

As we can see from the Outbound Route of 'voipout', all phone numbers



starting with 0 will have their first digit stripped off (digit 0) and will be sent to the SIP Trunk.

New Outbound Route	x
Route Name Dial Pattern 🛈 :	
Strip 🛈 :	
Prepend these digits	before dialing
Password:	
Member Extensions	
Available Extensions	Selected
	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
─ Member Trunks	
Available Trunks	Selected
pstn1(FXO) pstn2(FXO) pstn6(FXO) GSM11(GSM) BrTrunk7(BRI) BrTrunk8(BRI) 192.168.5.190(SPS)	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
5	Save X Cancel

Figure 5-3

Now that we have added two outbound dialing rules, any call starting with 9 will be routed to the PSTN, and any number starting with 0 will be routed to the SIP Trunk.

5.2 Incoming call

5.2.1 Sample Routing to an IVR

Let's configure an incoming call to route to the IVR. In the IVR itself, let's configure digit 0 to route the call to extension 500, and digit 1 to route the



call to extension 501.

1. Add IVR

To add a new IVR, go to IVR→ Create New IVR

Edit IVR welcome					×
Number 🛈 : 660					
Name 🛈 : 🔤 welcome					
Prompt 🛈 : 🚺	Custom IVR Prompts				
Play times 🛈 : 🛐 🔽					
WaitExten 🛈 : 🛐					
🔽 🚺 Allow Dialin	g Other Extensions				
🛛 🛈 KeyPress Events —					
Кеу	Action		Destination		
0	Connect to Extension	•	User Extension 500	•	
1	Connect to Extension	•	User Extension 501	T	
2	No Action	•		V	
3	No Action	•		V	
4	No Action	•		V	
5	No Action	•		V	
6	No Action	•		V	
7	No Action	•		V	
8	No Action	•		V	
9	No Action	•		V	
#	No Action	•		V	
*	No Action	•		V	
TimeOut 🛈	Connect to Extension	•	User Extension 500	•	
Invalid 🛈	Connect to Extension	•	User Extension 500	•	
	🗸 Save	🗙 Cancel			

Figure 5-4

2. Add Inbound Routes

As we can see from the Inbound Route of 'allin', all incoming calls will be sent to the IVR.



MyPBX Enterprise User Manual

eneral Route Nan	ne 0 : allin	
DID Numbe		
Extensio		
Caller ID Numbe		
Distinctive Rington		
ember Trunks Available Trunks		Selected
	>>> pstn1(FX pstn2(FX	
	→ pstn6(FX GSM11(G	
	← BriTrunk7 FriTrunk8	
	8032(SIP) voipprovi	
	««	
uring Office Hours		
	C End Call	
	C Extension	Extension 500
	C Voicemail	Voicemail 500
Destination:	IVR	IVR welcome
	C RingGroup	RingGroup ringgroup_defi 💙
	C Conference Room	Conference Room 640 💉
	C DISA	DISA
	C Queues	Queues 💌
	C Faxes	Faxes 500
	C Outbound Routes	Route Name pstnout
utside Office Hours		
	C End Call	
	C Extension	Extension 500
	C Voicemail	Voicemail 500
Destination:	IVR	IVR welcome
	C RingGroup	RingGroup ringgroup_def: 💙
	C Conference Room	Conference Room 640 💌
	O DISA	DISA
	C Queues	Queues 💌
	C Faxes	Faxes 500
	C Outbound Routes	Route Name pstnout

Figure 5-5



APPENDIX A FAQ

Q1. How to Register SIP device?

A1:

1) Register SIP soft phone Download the x-lite softphone from counterpath website www.counterpath.com After install the x-lite, right click the panel and select the SIP Account setting and then configure it. Display Name: 500 User Name: 500 Password: 500 Authorization Name: 500 Domain: 192.168.5.150 2) Register IP Phone (for example, Yealink's T28 IP Phone) a) Connect the T28's Internet port to the switch. And it can get the IP from your route. b) Press the 'OK' key on T28 to get the IP of T28. c) Put the IP on web browser then you can enter the T28 configure page through this IP. d) Put the SIP extensions info on the T28 IP phones. Display Name: 501 User Name: 501 Register Name: 501 Password: 501 SIP Server: 192.168.5.150

Use the same method register another T28 to other extension.

Q2. How do I reset MyPBX back to the factory default settings?

A2: To perform a reset, please follow steps below:

Step 1: Hold down the 'Reset' button on the back of the unit for 5 seconds and watch the LEDs on the front of the MyPBX. When the status LED turns red, let go of the reset button.

Step 2: When the RUN status LED starts blinking, MyPBX will be set back to factory defaults.

Step 3: To access the configuration page, navigate to 192.168.5.150 using a web browser. Make sure that you are on the 192.168.5.0 subnet before



doing this.

Step 4: Login to the device with the username 'admin' and the password 'password', in order to begin reconfiguring the device.



APPENDIX B How to Configure Autobackup

Before Autobackup can be properly configured, an SMB share folder accessible from MyPBX must be set up on a Windows based machine. Once that has been set up, please follow the steps below.

Step 1 Add a new folder, rename it, and set this new folder's share Properties according to Figure B-1



Figure B-1 Set up share Properties

Step 2 Enter the new folder and create a new text file, then rename this file to status.txt. This step is very important, DO NOT forget to create the status.txt file.

Step 3 Configure Autobackup settings on MyPBX to Figure B-2



External Storage Settings

The External Storage feature is used to extend storage space. Once configured, the files(voicemail, call recording files, CDR files) created before the configured days will be moved to the Net-Disk.								
<u>Step 1: Create a Net-Disk on a chosen computer</u>								
Step 2: Input the Net-Disk properties								
Net-Disk Host/IP:	192.168.5.222							
Net-Disk Share Name:	share							
Net-Disk Access Username:								
Net-Disk Access Password:								
Move files created before:	1 🔽 days ago							
🗸 Sav	e 🗶 Cancel							
Step 3: Save Net-Disk settings								
Step 4: Make sure the settings are successfully complete	ad							

Figure B-2 Autobackup Setting

Net-Disk Host/IP: Change this to the IP address of the computer where backup files will be stored.

Net-Disk Share Name: Change this to the name of the shared folder where backups will be stored.

Net-Disk Share Username: The user name used to log into the network share. Leave this blank if it is not required

Net-Disk Share Password: The password used to log into the network share. Leave this blank if it is not required

If configuring is correctly, open your Windows share folder to see if the MyPBX backup files and folders has been created. If the contents of the backup folder look similar to Figure B-3, then you have successfully configured Autobackup on the MyPBX unit.

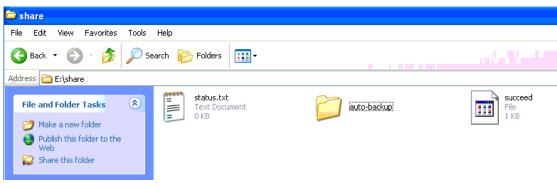


Figure B-3 Autobackup setting succeed



APPENDIX C How to Configure NAT setting

When MyPBX is behind a NAT(firewall), you need to configure NAT setting on MyPBX if you want to use a remote extension.

Please follow section **1** or **2** below depending on your network configuration. **1.** If MyPBX is connected to a local network, you must set up port forwarding on your router. Specifically, you must map port 5060 (default SIP port) and port 10001-10200 (default RTP port range) as UDP ports.

Next, go to the MyPBX web interface and configure the SIP settings according to Figure C-1:

External IP Address: your router's public IP address

External Host: your router's domain

External Refresh Interval: 20 seconds

Local Network Identification: 192.168.5.0/255.255.255.0 (change this according to your network configuration)

NAT mode: Yes

Allow RTP Reinvite: No

NAT
Note: Configuration of this section is only required when using remote extensions.
Enable STUN:
STUN Address:
STUN Port:
External IP Address 🛈 :
External Host 🛈 : yeastar.3322.org
External Refresh Interval 🛈 : 20
Local Network Identification 3: 192.168.5.0/255.25
NAT Mode 🛈 : 🛛 yes 🛛 🐱
Allow RTP Reinvite 🛈 : 🛛 yes 🛛 💌

Figure C-1

Assuming that your router's host address is yeastar.3322.org, your local network is from 192.168.5.1-192.168.5.254, and the subnet Mask is 255.255.255.0, the MyPBX network settings should configured like Figure C-2



LAN Settings	
DHCP:	No 💌
Enable SSH:	Yes Y Port: 8022
Hostname:	MyPBX
IP Address:	192.168.5.186
Subnet Mask :	255.255.255.0
Gateway :	192.168.5.1
Primary DNS :	192.168.5.1
Secondary DNS :	
IP Address2:	
Subnet Mask2:	

Figure C-2 MyPBX Network setting

2. If MyPBX has a public IP, (i.e. is connected directly to your internet service provider), the network settings should be configured according to Figure C-3:

LAN Settings	
DHCP:	No 🛩
Enable SSH:	Yes Y Port: 8022
Hostname:	MyPBX
IP Address:	221.245.25.117
Subnet Mask :	255.255.255.0
Gateway :	221.245.25.1
Primary DNS :	202.101.103.54
Secondary DNS :	202.101.103.55
IP Address2:	
Subnet Mask2:	

Figure C-3

Next, you should configure the NAT settings according to Figure C-4

NAT	
Note: Configuration of this section is only r	equired when you use remote extensions.
Enable STUN:	
STUN Address:	
STUN Port:	
External IP Address	221.245.25.117
External Host	
External Refresh Interval	
Local Network Identification 🛈 :	
NAT Mode 🛈 :	yes 👻
Allow RTP Reinvite	no 💌

Figure C-4

External IP Address: The public IP address of MyPBX
External Host: Leave this blank if no domain has been configured
External Refresh Interval: Leave this blank
Local Network Identification: Leave this blank
NAT mode: Yes
Allow RTP Reinvite: No



APPENDIX D How to Use Auto Provision

Step1. Disable DHCP Server on your local network. E.g. Disable DHCP Server on Linksys Router.

LINKSYS [®] A Division of Cisco Systems, Inc.					Firmware Version: 1.04.08
			Ethei	rfast® Cable/DSL Roเ	uter BEFSR41
Setup	Setup S	Security & Gamin		tration Status	
	Basic Setup		C Address Clone	Advanced Routing	
Internet Setup				Ba	sic Setup
Internet Connection Type	Obtain an IP aut	itomatically 🔽		The	Basic Setup screen is
Optional Settings (required by some ISPs)	Host Name: Domain Name: MTU:	C Enable ③ Disable S	ze: 1500	whe perf Serv that infor be o	re basic configuration is borned. Some ISPs (Internet ice Providers) will require you enter the DNS mation. These settings can btained from your ISP. After have configured these
Network Setup Router IP	Local IP Address: Subnet Mask:	192.168.1.1		settii pass	ngs, you should set a router word from the <i>inistration->Management</i>
Network Address Server Settings (DHCP)		• C Enable Disable	<u> </u>	sect set u Pleas conf	pleting the Internet Setup ion is all that is required to up for your specific ISP. se look at the table below to igure the Router for your net connection.
	Address: DHCP Address Range: Client Lease Time:	50 192.168.1.100 to 192.168.1 0 minutes (0 means		Mor	<u>e</u>
	Static DNS 1:				
	Static DNS 2:	0.0.0.0	7		
	Static DNS 3:	0.0.0.0	7		
	WINS:	0.0.0.0			
					CISCO SYSTEMS
		Save Sett	ings Cance	l Changes	.uthuth

Figure D-1

Step2. Enable DHCP Server on MyPBX.

Login MyPBX web interface, System Settings \rightarrow DHCP Server \rightarrow Enable DHCP Server.



Status Monitor (2)	► DHCP Server Φ	
Line Status		
-	DHCP Server	
Basic (8)	DHC	P is not running
Extensions Trunks		F Enable
Outbound Routes		192,168,5,1
Auto Provision		k 255 255 255 0
Inbound Call Control	Primary DN	IS: 192.168.5.1
TVR Queues	Secondary DN	S
Custom Prompts	Allow IP Address Fro	m: 192.168.5.2
Ring Groups		To: 192.168.5.254
Inbound Routes		102.100.0.201
Blacklist	V	Save X Cancel
Internal Settings		
Options		
Business Hours		
Feature Codes		
SIP Settings		
IAX Settings		
Voicemail Settings DISA		
Conferencing		
Paging Groups		
PIN User Settings		
Speed Dial Settings		
Music On Hold Prompts		
Network Settings		
LAN Settings		
WAN Settings		
Firewall		
DHCP.Sever		

Figure D-2

Step3. Configure phones on MyPBX auto-provision page.

1. Login MyPBX web interface, Basic \rightarrow Auto Provision \rightarrow Create New Phone.

🗿 MyPBX - Embedded Hyb	orid IPPBX for Small Businesses - Micro	soft Internet Explorer			
Ele Edit View Favorites	Tools Help				At 1
🚱 Back 🔹 🛞 🕤 💌	🗟 🏠 🔎 Search 👷 Favorites 🎸	ð 🔗 😓 🖂			
Address 🕘 http://192.168.5.18	86/cgi/WebCGI?1000				✓ う Go 链接
MyPBX	Embedded Hybrid IP-PBX for S	mall Businesses			Logout
Status Monitor 🛞	Auto Provision 🔅				
Line Status			Auto Provision		
	Phone				
Basic 🛞	+ Create New Phone				
Extensions					
Trunks Outbound Routes	MAC	Name		Extension	
Auto Provision	Upload a file				
Inbound Call Control 🙁	#	Name		Options	
IVR	▶ IP phone				
Queues	Scan Yealink Phone				
Custom Prompts	• ocur realmentione				
Ring Groups Inbound Routes					
Blacklist			Mac Address List		
	L				
Internal Settings 🔹					
Options					
Business Hours Feature Codes					
SIP Settings					
IAX Settings					
Voicemail Settings					
DISA					
Conferencing					· · · · · ·
ê					🥑 Internet

Figure D-3

2. Fill in the phone detail message on the pop-up windows.

Input IP Phone's MAC address, configure Name, Call waiting, Line, Extension, Label, Line active for the phone.



Create New Phone			X
General MAC: Key As Send :	00156511189E	Name: Rela Ca	all Waiting : Enabled 💽
C Line			
🔽 Line1	Extension: 500 💌	Label: 500	Line Active: 💌
🗖 Line2	Extension:	Label:	Line Active: 🔽
🗖 Line3	Extension:	Label:	Line Active: 📕
🗖 Line4	Extension:	Label:	Line Active: 🗖
🗖 Line5	Extension:	Label:	Line Active:
🗖 Line6	Extension:	Label:	Line Active: 🗖
	_	Save 🗙 Cancel	

Figure D-4

Step4. Turn on the power and connect the network cable to IP Phone.

Remark: The factory default setting of DHCP for IP Phone is enable, so you can skip this step to step 5.

If the DHCP is disable, please follow below step to enable it. (e.g.: Yealink's IP Phone).

- 1. Login IP phone's web page.
- 2. Enable DHCP.

Yealink								
Easy vop	Status	Account	Network	Phone	Contacts	Upgrade	Security	
		Internet F	Port (WAN)	PC Port	Advanced			
	IP Sul De Prir Sei Use	Address Address onet Mask fault Gateway nary DNS condary DNS POE				addres server Set th Mask, I addres Secon manua PPPoE		t

Figure D-5

Step5. Finish.



APPENDIX E How Do I Configure Distinctive Ring Tones

Step1: On your IP phone, navigate to the Phone settings web configuration page and find the Distinctive Ring Tone section.

For each custom ring tone, enter the Internal Ringer Text (can be digits or text) to trigger the ring tone. For example, you may enter "Family". e.g.: Yealink's IP phone.

Yealir	nk							
Easy vop	Status	Account	Network	Phone	Contacts	Upgrade	Security	
	Preference	Features DSS	S Key 📔 EXT Key	Voice Ring	Tones Dial Pla	an SMS		
		Internal Ringer Text		amily	0			
		Internal Ringer File	F	ting1.wav 🛛 👻				
		Internal Ringer Text						
		Internal Ringer File	F	ting2.wav 🔽				
		Internal Ringer Text						
		Internal Ringer File	F	ting3.wav 🔽				
		Internal Ringer Text						
		Internal Ringer File	F	ting4.wav 🔽				
		Internal Ringer Text						
		Internal Ringer File	F	ting5.wav 🔽				
		Internal Ringer Text						
		Internal Ringer File	F	ling6.wav 🛛 🎽				
		Internal Ringer Text						
		Internal Ringer File	F	ting7.wav 🔽				
		Internal Ringer Text						
		Internal Ringer File	F	ting8.wav 🔽				
		Internal Ringer Text						
		Internal Ringer File	F	ting1.wav 🔽				
		Internal Ringer Text						
	:	Internal Ringer File	F	ting1.wav 🔽				
		Confirm		Cancel				

Figure E-1

Step2. Configure the 'Distinctive Ringtone' on MyPBX.

MyPBX web interface, Inbound Routes \rightarrow Edit Inbound Route, fill in the Internal Ringer Text on 'Distinctive Ringtone'.



nbound Route: allin			
General			
Route N	lame 🛈 : allin		
DID Nur	nber 🛈 :		
Exten	sion 🛈 :		
Caller ID Nur	nber 🛈 :		
Distinctive Ring	tone 🛈 : Family		
1ember Trunks			
Available Trunks		Selected	
		ostn6(FXO) SSM11(GSM) BriTrunk7(BRI) BriTrunk8(BRI) 032(SIP) voipprovider(SIP)	
uring Office Hours			
	C End Call		
	C Extension	Extension 500	*
	C Voicemail	Voicemail 500	*
Destination:	IVR	IVR welcome	*
	C RingGroup	RingGroup ringgroup	_defi 🔽
	C Conference R	nom Conference Room 64	10 🗸

Figure E-2

Step3. Finish.



APPENDIX F How to Use Email to SMS

How to use Email to SMS

You need to send an email to the specified email address (you set in Email Settings. In this case, it is lears@yeastar.com).The content of this email will be sent to the number you want as message. The subject (title) of the email will determine the number. Here are some examples of the formats to the subject of the email.

Example:

1. Send message with no PIN code and default GSM port.

Format: phonenumber

if the subject is "12345678", the text of this email("Welcome to Yeastar!") will be sent to number "12345678" through the first available GSM trunk(No pin code should be set by administrator).

Subject: 12345678	
Insert: 🔟 Attachmer	nts 🚦 Office docs 📰 Photos 🔻 🔁 From Bing 🔻 😂 Emoticons
Tahoma 🔹 🕽	10 • B I U = = = = = = = = = = = 🛱 🛱 🚑 🗛

Figure F-1

2. Send message with no PIN code and specified GSM port.

Format: port:portnumber-phonenumber

if the subject is "port:9-12345678", the text of this email ("Welcome to Yeastar!") will be sent to the number "12345678" through GSM trunk 9 (No pin code should be set by administrator).



Subject:	port:9-12345678
Insert:) Attachments 🛛 🚼 Office docs 🛛 🔄 Photos 🔻 💽 From Bing 🔻 🤓 Emoticons
ahoma	• 10 • B / U 三 三 三 注 译 译 😣 🚝 🔺
come to Y	(eastar!

Figure F-2

3. Send message with PIN code and default GSM port.

Format: 500: pincodenumber-phonenumber

if the subject is "500:987-12345678", the text of this email("Welcome to Yeastar!") will be sent to number "12345678" through the first available GSM trunk("987" is the pin code set by administrator).

To:	lears@ye	eastar.	com 🅖	×	
Subject:	500:987-	12345	678		
Insert:	🖞 Attachm	ents	<mark>83</mark> 0	ffice docs	🖺 Photos 🔹 🔁 From Bing 🔹 😂 Emoticons
Tahoma		10			■ ■ 目 目 律 律 🚷 띂 🗛

Figure F-3

4. Send message with PIN code and specified GSM port.

Format: 500: pincodenumber-port: portnumber-phonenumber

if the subject is "500:987-port:9-12345678", the text of this email ("Welcome to Yeastar!") will be sent to number "12345678" through GSM trunk 9("987" is the pin code set by administrator).

To:	lears@yeastar.com ∥ ×
Subject:	500:987-port:9-12345678
Insert:	🛿 Attachments 🛛 🚼 Office docs 🛛 🔄 Photos 🔻 🔁 From Bing 🔻 🤭 Emoticons
Tahoma	• 10 • B I U 三 三 三 註 註 譯 示 A
lcome to	Yeastar!

Figure F-4 Figure 3-53



APPENDIX G How to Use DID

Direct inward dialing (DID), also called direct dial-in (DDI) in Europe and Oceania, is a feature offered by telephone companies for use with their customers' private branch exchange (PBX) systems. In DID service the telephone company provides one or more trunk lines to the customer for connection to the customer's PBX and allocates a range of telephone numbers to this line (or group of lines) and forwards all calls to such numbers via the trunk.

MyPBX support DID, you can configure DID in inbound route. Related settings: **DID Number, Extension, Destination.**

eneral				
Route	Name 🛈 :			
DID Nu	mber 🛈 :			
Futan	nsion 🛈 :			
Caller ID Nu	mber 🛈 :			
Distinctive Ring				
Distinctive King	;tone 🔍 :			
Enable (Callback : No 🚽	Callback	Settings	
ombox Truwka				
ember Trunks Available Trunk	s		Selected	
Available Trunk	_]	Selected	
Available Trunk	:S		Selected	
Available Trunk		_	Selected	
Available Trunk 5503301 (FXO) 5503302 (FXO)		_	Selected	
Available Trunk 5503301 (FKO) 5503302 (FKO) 5503305 (FKO) 5503306 (FKO) pstn5 (FKO)]	Selected	
Available Trunk 5503301 (FXO) 5503302 (FXO) 5503306 (FXO) pstn5 (FXO) pstn6 (FXO)]	Selected	
Available Trunk 5503301 (FKO) 5503302 (FKO) 5503305 (FKO) 5503306 (FKO) pstn5 (FKO)]	Selected	

Figure G-1

·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. Only service provider, E1 trunks, BRI trunks or SIP trunks need to be configured with this setting.

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
- 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.

Extension

Define the extension for DID number, this field only valid when use E1 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 the count of the DID number.

Destination

If you don't set the extension, you can set the destination of the call here.

Example 1:

Step1: You set the DID number (5503XXX in this example). Step2: You choose the destination (Ring Group in this example).

The configuration of this example means when the incoming call with DID number 5503XXX (7 digits number start with 5503) will go to the destination Ring Group.

If you choose the destination, please leave the Extension form blank.



eneral				
Route Name	0 : E	3RI1		
DID Number 🤇	0 : 5	5503XXX		
Extension	1 .			
Caller ID Number 🤇				
Distinctive Ringtone				
Enable Callba		No 🗸 Callbad	ck Settings	
ember Trunks🛈				
Available Trunks			Selected	
		>>>>		
5503301 (FXO) 5503302 (FXO)	<u> </u>			
5503305 (FXO)	E	→		
5503306 (FXO)	-			
net n5 (EVO)		and an and a second sec		
		*		
pstn6 (FXO) pstn7 (FXO)		~		
pstn6 (FXO) pstn7 (FXO)	Ŧ	«		
pstn6 (FXO) pstn7 (FXO)	-			
pstn6 (FXO) pstn7 (FXO)	Ŧ			
pstn5(FXO) pstn6(FXO) pstn7(FXO) pstn8(FXO) uring Office Hours	•	44		
pstn6 (FXO) pstn7 (FXO) pstn8 (FXO)	•			
pstn6 (FXO) pstn7 (FXO) pstn8 (FXO)		44	Extension 500	•
pstn6 (FXO) pstn7 (FXO) pstn8 (FXO)	O	End Call	Extension 500 Voicemail 500	•
pstn6 (FXO) pstn7 (FXO) pstn8 (FXO)	0	End Call Extension		•
pstn6 (FXO) pstn7 (FXO) pstn8 (FXO) uring Office Hours	0 0	End Call Extension Voicemail	Voicemail 500	•
pstn6(FXO) pstn7(FXO) pstn8(FXO) uring Office Hours	000000000000000000000000000000000000000	End Call Extension Voicemail IVR	Voicemail 500 IVR welcome RingGroup NationalSe	•
pstn6 (FXO) pstn7 (FXO) pstn8 (FXO) uring Office Hours	0 0 0	End Call Extension Voicemail IVR RingGroup	Voicemail 500 IVR welcome RingGroup NationalSe	•
pstn6 (FXO) pstn7 (FXO) pstn8 (FXO) uring Office Hours	0 0 0 0 0	End Call Extension Voicemail IVR RingGroup Conference Room	Voicemail 500 IVR welcome RingGroup NationalSe Conference Room 640	* * *
pstn6 (FXO) pstn7 (FXO) pstn8 (FXO) uring Office Hours	0 0 0 0 0 0	End Call Extension Voicemail IVR RingGroup Conference Room DISA	Voicemail 500 IVR welcome RingGroup NationalSe Conference Room 640 DISA test	•
pstn6 (FXO) pstn7 (FXO) pstn8 (FXO) uring Office Hours		End Call Extension Voicemail IVR RingGroup Conference Room DISA Queues	Voicemail 500 IVR welcome RingGroup NationalSe Conference Room 640 DISA test Queues test Faxes 500	*

Figure G-2

Example 2:

Step1: You set the DID number (6001-6099 in this example). Step2: You set the Extension (6001-6099 in this example).

The configuration of this example means when the incoming call with DID number 6001 to 6099 will go to the destination 6001 to 6099(number 6001 to extension 6001, number 6002 to extension 6002).

The destination you set below will be disabled if you set the Extension.



General	1							
Genera.	1					-		
		Route Na	me 🛈 :	: BRI1				
		DID Numbe	r 🛈	: 6001-609	99			
		Extensio	n 🕕	: 6001-609	99			
	Call	er ID Numbe.	r 🛈	:				
	Distinct	ive Rington	e 🛈	:				
Member	Trunks	Enable Call	lback	: No 🗸	Callba	ck Settin	<u>[8</u>	
Member	Trunks Availabl		lback	: No 🗸	Callba		lected	
550330	Availabl		lback	: No 🗸	Callba			
550330 550330 550330	Availabl 1 (FXO) 2 (FXO) 5 (FXO)		-		Callba			
550330 550330 550330 550330	Availabl 1 (FXO) 2 (FXO) 5 (FXO) 6 (FXO)		back		Callba			
550330 550330 550330 550330 pstn5(Availabl 1 (FXO) 2 (FXO) 5 (FXO) 6 (FXO) FXO)		-	 →	Callba			*
550330 550330 550330 550330	Availabl 1 (FXO) 2 (FXO) 5 (FXO) 6 (FXO) FXO) FXO)		-					

Figure G-3



APPENDIX H How to Use BLF Key to Choose the PSTN line.

MyPBX allows you to choose the specific PSTN line to make outbound call by pressing the BLF key on the IP Phone.

Follow the steps to do the configuration with your Yealink phone

1. We want to choose pstn1 or pstn2 to call out.

Log
N Edit
N Edit
S Edit
N Edit

Figure H-1

2. Configure the IP Phone:

Memor	ry Key >> 🕜			
Key	Туре	Value	Line	Extension
DSS Key 1	BLF -	pstn1	Line 1	pstn1
DSS Key 2	BLF -	pstn2	Line 1	pstn2

Figure H-2

Test

When you press DSS Key 1/2, the phone will connect to pstn1/pstn2 line. If pstn1/pstn2 is not busy, you will hear the dial tone. You can dial the number you want and use this line to call out then.



APPENDIX I How to Configure Hot Standby

When you are using MyPBX Enterprise, you can enable Hot Standby if you have 2 MyPBX. Then when one MyPBX is down, the other MyPBX will take over service. This feature can ensure your telephone system runs normally.

Requirements of Hot Standby:

- 1. The 2 MyPBXs MUST have same hardware version and firmware version.
- 2. The 2 MyPBXs MUST install same modules on same slots.
- 3. The 2 MyPBXs MUST have different IP and hostname.

Example:

In this example, we use 2 MyPBXs. One MyPBX has an IP of "192.168.5.181" and a hostname of MyPBX181; the other MyPBX has an IP of "192.168.5.182" and a hostname of MyPBX182. MyPBX181 is "Primary" and MyPBX182 is "Secondary"; the virtual IP is "192.168.5.183", and net mask is "255.255.254.0"; the gateway is "192.168.5.1".

MyPBX181 Basic(Figure I-1):

Enable: Yes Mode: Primary Secondary Hostname: MyPBX182 Secondary IP: 192.168.5.182 Access Code: 123 Virtual IP Address: 192.168.5.183/255.255.254.0 Network Connection Detection: 192.168.5.1



Figure I-1

MyPBX182 Basic(Figure I-2): Enable: Yes Mode: Secondary Primary Hostname: MyPBX181 Primary IP: 192.168.5.181



Access Code: 123 Virtual IP Address: 192.168.5.183/255.255.254.0 Network Connection Detection: 192.168.5.1

Basic	
Running Status:	Standby
Enable:	Yes -
Mode 🛈 :	Secondary -
Primary HostName	MyPBX181
Primary Ip 🛈 :	192.168.5.181
Access Code 🛈 :	
Virtual IP Address 🛈 :	192.168.5.183/255.255.254.0
Network Connection Detection	192.168.5.1
	w.

Figure I-2

MyPBX181 Down Notification & Advanced(Figure I-3):

After you configure "Down Notification" and "Advanced" on MyPBX181, the configuration on MyPBX182 will be synchronized with MyPBX181. So, we only should configure "Down Notification" and "Advanced" on MyPBX181.

Notification Method: we choose "Both"; then enter the email in "Email List" and mobile number in "Number List".

Advanced: Keep default.

"Save" and "Apply Changes", MyPBX182 will synchronize the configuration on MyPBX181.

Down Notification	
Notification Methods 🛈 :	Both JSMS Settings
Email List() :	zhangfengzhang.gk@gmail.com
SMS List():	15960281667
Advanced 🛠	
Heartbeat	Options
Keep Alive 🛈 :	2 s
Dead Time 🔮:	120 s
Synchronizat	tion Options
Disk Synchronization	Real-time Synchronization

Figure I-3

APPENDIX J How to Enable Auto Recording

MyPBX Enterprise allows you to record the calls automatically. Here is the guide for you to use it.



J.1 Login

From your web browser, input the IP address of the MyPBX server. Login the system with the monitor account:

User Name: monitor Password: password

MyPBX	Embedded Hybrid IP-PBX for Your Businesses
	MyPBX Configuration Pane1
Yeastar	User Login
	User Name: monitor
	Password:
	Language: English
	Login Reset

Figure J-1

J.2 Recording Settings

- 1) General Preferences
- Enable this function here. You can tick:
- a. Record Inbound calls
- b. Record Outbound calls
- c. Record Internal calls
- d. Record Callback calls.

2) Apply To
•Trunks Recording
When ticked, all calls through the selected trunks will be recorded.

•Extensions Recording

When ticked, all calls made by the selected extensions will be recorded.



		Logo			
_	Auto Recording Settings 🌵				
ording Settings					
ording Logs	Gerneral Preferences				
ure Settings	Note: Confirm the Disk exists and in the correct format before enabling Auto Recording.	18			
sword Settings	Enable Auto Recording 🛈 : Yes 🖵				
	Record Inbound Calls				
	☑ Record Outbound Calls				
	Record Internal Calls				
	Record Callback Calls	1.2			
	Apply To				
	Trunks Recording				
	All Trunks Customized				
	Trunks Selected				
	5503301 (FXO) 2000 5503302 (FXO)	*			
	5503305 (FXO) 5503306 (FXO)				
	DigitalTrunk1(E1)				
	BIZPBXIEST (SIP) 137 (SPS)				
	192.168.5.137 (SPS) OCS (SPS)	-			
	Extensions Recording				

Figure J-2

J.3 Recording Logs

·Start Search

You are able to search the record by Start Date to End Date, Extension, Trunk, Duration and Communication Type.

The Record List

You can choose the record to download or delete. You can check the ID, Time, Callee, Caller, Trunk, Duration(second), Communication Type of each record You can play, download or delete the recording files.



	Auto	Recording Logs 0							
Recording Settings Recording Logs Share Settings Password Settings	Start Date: 28 Nov 2011 End Date: 28 Nov 2011 Caller/Callee: Irunk: All Unration®: Communication Type: All Unration®: Com								Start :
	ID ID	Time	Caller	Callee	Trunk	Duration(second)	Communication Typ	ie -	
	1	2011-11-28 14:47:29	6010	6019		0	Internal	Play 😽 Download	XDelete
	2	2011-11-25 14:45:40	18965163077	622	5503306	17	Inbound	Play 🐣 Downicad	X Delete
	3	2011-11-28 14:44:02	13571932113	623	5503301	199	Inbound	Play 🐥 Download	X Delete
	-	2011-11-28 14:42:37	604S	\$030		54	Internal	Play 🕹 Download	X Delete
	5	2011-11-28 14:41:54	6010	918965163077	5503305	S1	Outbound	Play & Download	X Delete
	6	2011-11-25 14:40:05	602	902266208754	5503306	70	Outbound	Play 😽 Download	X Delete
	7	2011-11-28 14:36:52	601	902787163070	5503306	72	Outbound	Play & Download	X Delete
	S	2011-11-28 14:34:17	8027	8030		28	Internal	Play 🐣 Download	X Delete
	9	2011-11-28 14:33:59	13501019898	621	5503301	19	Inbound	Play 😽 Download	X Delete
	10	2011-11-28 14:31:38	6010	6009		50	Internal	Play Download	X Delete
	11	2011-11-28 14:29:43	15915341970	622	5503306	84	Inbound	Play Download	X Delete
	12	2011-11-28 14:29:25	6010	6019		17	Internal	Play 😽 Download	X Delete
		2011-11-28 14:28:35	15280207429	622	5503305	40	Inhound	Play - Download	X Delete

Figure J-3

J.4 Share setting

Use this setting to share the recording file on the network.

·User Name

The user name to check the file

Password

The password to the user name

Share Name

The name of the folder showed on the network.

Recording Settings	Share Settings ↓
Recording Logs Share Settings Password Settings	Note: This setting is only applied to the Auto Recording folder on the disk. If you can't get access to the disk, please refer to the manual for solution.

Figure J-4



For WIN 7/Vista user. please modify the registry before checking the shared file :

```
Step1: Start->Run->regedit
Step2: Modify the value of
"HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Lsa\
LmCompatibilityLevel "
to "1".
If" LmCompatibilityLevel" doesn't exit, create a Dword value
"LmCompatibilityLevel " = 1
```

You can check the recording file on the network by Explorer/Resource Manager Run: \\ IP of MyPBX

In the picture below , the IP is 192.168.5.101

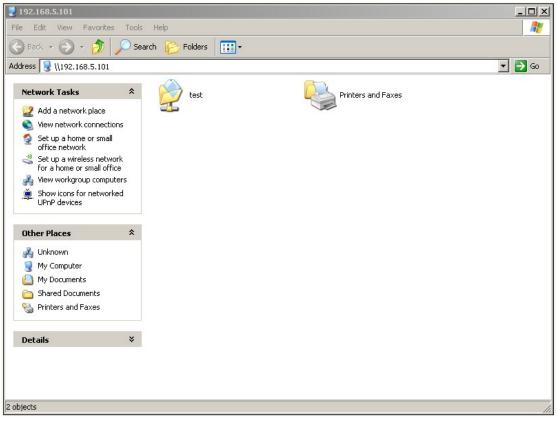


Figure J-5



😴 test on MyPBX Samba Serve (192	.168.5.101)		
File Edit View Favorites Tools	Help		
🔾 Back 👻 🕥 🖌 🏂 🔎 Sean	ch 😥 Folders 🛄 🕶		
Address 🧟 \\192.168.5.101\test			💌 🄁 Go
File and Folder Tasks	20111212	20111213	<u> </u>
Make a new folder Publish this folder to the Web	20111214	20111215	
Other Places \$ 3 192.168.5.101	20111216	20111217	
 My Documents Shared Documents My Computer 	20111218	20111219	
🧐 My Network Places	20111220	20111221	
Details * test	20111222	20111223	
	20111224	20111226	
	20111227	20111228	
29 objects	<u>~</u>	0 bytes	Internet

Figure J-6

If you change the password of the share folder, the network users may not be able to check the shared files then.

Please ask the network user to try: step1: Start-> Run -> cmd step2: net use * /del (the is a space behind *) step3: Visit the device again with new password

J.5 Password Setting

You can change the password of the account "monitor" here.

My PBX	Embedded Hybrid IP-PBX for Your Businesses
A	Change Password 🌵
Automatic Settings Record Logs Share setting Password Settings	Change Password Enter New Password: Retype New Password:
	√ Save
	Figure J-7



APPENDIX K How To Install Hard Disk

In the event that users need to install hard disk by themselves which might happen when they buy the hard disk separately(Note: Hard Disk tested model: Seagate ST9500325AS, ST9500420AS, ST9320325AS), pleases do as the following steps:

- 1. Power off and unplug MyPBX Enterprise
- 2. Unscrew the upper case and open it by pulling in the direction of front panel.
- 3. Screw the hard disk to the bracket with 4 screws (see Figure J-2). Please kindly note that MyPBX Enterprise is packed with 8 screws and 2 brackets by factory default (see Figure J-1).



Figure K-1





Figure K-2

4. Locate the place for the hard disk on the mainboard and screw the brackets with another 4 screws. Then connect the power cord and data cable (see Figure J-3)

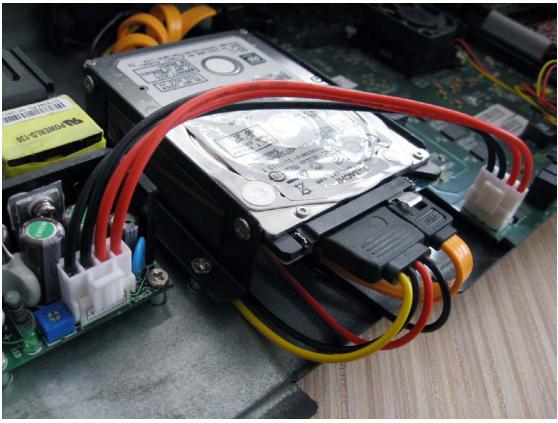


Figure K-3



5. Check if hard disk is successfully installed as Figure J-4



Figure K-4

- 6. Close the upper case and screw it.
- 7. Turn on the power.
- Log on MyPBX Administrator webpage, go to 'System Settings->Storage Management'. The hard disk is installed successfully if you can see the hard disk info there. If not, please follow steps 1-7 to try again.

<Finish>