

M-200 IPPBX

User Guide

For System Administrator

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Chapter 1: hardware Setup

M-200 IPPBX Overview



Codecs & Protocols

- SIP 2.0 (RFC3261) / IAX2 compliant
- Audio Codec: G.722 / G.711-Ulaw / G.711-Alaw / G.726 / G.729 / GSM / SPEEX
- Video Codec: H.261 / H.263 / H.263+ / H.264
- DTMF: RFC2833, SIP INFO, In-band

Network Features

- DDNS Client
- DHCP Server / SNMP v1/v2
- IEEE 802.1Q of VLAN
- IPv4 / IPv6
- Manual Configuration of Static Route Table
- Troubleshooting (Ping, Traceroute)

Security Features

- VPN Client (Supports N2N / L2TP / PPTP / OpenVPN)
- VPN Server (Supports PPTP / L2TP / OpenVPN Server)
- Permit IP for Extensions
- SIP Allowed Address
- Block SIP Register Failed
- Iptables Firewall / SRTP

Environment

Working Temperature	0 ~ 40°
Storage Temperature	- 20 ~ 55°
Humidity	5 ~ 95% Non-condensing

IPPBX – M200

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Unpack Your IPPBX

Thank you for purchasing SIPDEX M-200 IPPBX. This Quick Installation Guide will introduce how to finish the basic setting of connecting the web management interface and the Internet. Open the box of the IPPBX system and carefully unpack it. The box should contain the following items:

- Internet Telephony PBX System Unit x 1
- Quick Installation Guide x 1
- Power Adapter x 1 (12V)
- RJ-45 x 1
- Bracket x 2

If any of the above items are damaged or missing, please contact your dealer immediately.

Dimensions

- Dimensions: 343 (L)x 154 (W)x 35 (H)mm
- Net Weight: 1.4kg (without package)



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LED definitions

Front Panel	State	Description	
PWR	Steady Green	IPPBX Power ON	
	Off	IPPBX Power OFF	
SYS	Blinking Green	System is working	
	Off	System is Off	
ETH	Steady Red	IPPBX network connection established	
	Off	Waiting for network connection	
FXO / GSM	Steady Red	Ready / Standby	
	Flashing	Ringing	
	Off	Module not available	
FXS	Steady Green	Ready / Standby	
	Flashing	Ringing	
	Off	Module not available	
T1 / E1	LED 1,2,4	Configured to T1 / E1	
	Steady in Red		
USB	Steady Green	Connected External Disk	

Rear Panel

5LOT 2			I			
			1.58		28-0	

Reset	The reset button, when pressed, resets the IP PBX without the need to unplug the power cord.
12V DC	12V DC Power input outlet
ETH	The ETH port supports auto negotiating Fast Ethernet 10/100 Base-TX networks. This port allows your IP PBX to be connected to an Internet Access device, e.g., router, cable modem and ADSL modem through a CAT.5 twisted pair Ethernet cable.
Console	For Console Interface configuration
USB	For External USB Storage
SLOT1	support 4FXS 4FXO 2FXOS 2GSM 4SGM 1PRI
SLOT2	support 4FXS 4FXO 2FXOS 2GSM 4SGM

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Accessories

Adopting an innovative modular design, it is very easy to add telephony ports to expand the Phone System.

IPPBX-M200 supports industry standard SIP trunks as well as analog PSTN trunks (FXO module), mobile GSM trunks (GSM module), analog stations (FXS module), as well as digital trunks (E1/T1 module).



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Chapter 2: Connect to the Network & Access IPPBX

Use an Internet Brower to Access the IPPBX

- 1. Connect a computer to an ETH port on the IPPBX.
- 2. Your PC must set up to the same subnet 192.168.1.X
- 3. Open a web browser (Internet Explorer (version 6 and higher, Firefox, Chrome or Safari)
- 4. Enter the default URL of the IPPBX System: *http://192.168.1.100:9999*

Enter the default username *admin* and password *admin*, then click Login to enter Web-based user interface.

Default URL	http://192.168.1.100:9999
Username	admin
Password	admin

Login page of the SIPDIX M-200 IPPBX

Sipdex	M-	200 IF	PBX SY	STEM	
Username:					
Password:					
Language: E	nglish	•			
			Login		

Change Password

Security message will pop-up when you login to the system, until you change the password.

The page at 192.168.1.100:9999 says:	×
Security: You are using the default password. It is strongly recommended that you change you through System -> Management.	r password
	ОК

For security reason, please change and memorize the new password after this first setup.

Click System -> Management:

Management

Change Password
Password: New Password: Retype New Password:
Apply

Network Settings

1. Go to Network Settings -> Network

• Home
 Operator
Basic
Inbound Control
Advanced
Network Settings
 Network
• 3G Network
 Static Routing

In IPv4 Settings

Network

	IPv4 Setting	IS	IPv6	Settings	VL	AN Settings
Ethernet	Port Setup					
		IP A IP Ad Subn Gatev Prima Alterr	Assign: dress: et Mask: way: ary DNS: nate DNS:	Static 192.168.1.10 255.255.255 192.168.1.1 8.8.8.8] 00 .0	
Virtual II	nterface					
	IP AddressV1: IP AddressV2:			Subnet M Subnet M	askV1: askV2:	
			Save	Cancel		

2. Edit your ETH port IP information.

There are three types of Ethernet port connection. They are Static IP, PPPoE (Point-to-Point Protocol over Ethernet), DHCP. You can find detailed setting process in the user manual.

Ethernet Port Setup			
	IP Assign: IP Address: Subnet Mask: Gateway:	Static V 19 Static 0 25 DHCP 0 192.108.1.1	

SMTP Settings

If the IPPBX require the SMTP Server for send out Email. (Voicemail to email, Fax to email)

Click Advanced -> SMTP Settings to configure

SMTP Settings

SMTP Settings:	
	SMTP Server: Port: 25 SSL/TLS: Enable SMTP Authentication Username: Password: Send Test
	Save Cancel

Item	Explanation
SMTP server	In order to send e-mail notifications of your voicemail, set the IP address or domain name of a SMTP server that you're IP PBX may connect to. e.g. mail.yourcompany.com
Port	The port number the SMTP server runs is generally port 25. If SSL is encrypted, please use port 465 instead.
SSL/TSL	Enable SSL/TLS to send secure messages to server.
Enable SMTP	If your SMTP server needs Authentication, please enable SMTP Authentication, and
Authentication	configure the following information.
User Name	Input username of your email box.
Password	Input password of your email box.

Click **Send Test** after configuration, the following diagram will be displayed to ask you to input the Email for receiving.

Send Test	x
Email Address:	
Send Cancel	

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Input the Email Address and click **send** to send the test email. Login to your Email to check configuration is successful if you receive the test email otherwise, it fails. Please check your email settings again.

System Time Settings

The system supports either Sync with NTP Server or Manual Time Set.

Click System -> Time Settings to configure

NTP	C Manual Time Set
NTP Server: pool.ntp.org	
Time Zone: Asia/Chongqi	ng 🗸

Reference:

Item	Explanation
NTP Server	Define the NTP Server. You can input the IP address or domain of this server. Default server is pool.ntp.org.
Time Zone	Select your time zone so that the system will set time based on the time zone.

Manual Time Set:

Time Settings		
	C NTP	Manual Time Set
	Year:	(YYYY, eg: 2010)
	Month:	(MM, eg: 05)
	Day:	(DD, eg: 08)
	Hour:	(HH, eg: 09)
	Minute:	(MM, eg: 30)
	Synchroniz	e with current PC time Sync

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

Make the settings effect now

If you change the settings in Web GUI M-200 IPPBX will not take effect immediately. It will show the banner on

the top of the website. Please click Activate Changes to take effect the changes.					
		Configuration Saved!			
Sipdex	Settings changed! Please Clic	ck on Activate Changes to make modific	cations effect!	Activate Changes	Logout

Connect Module to the IPPBX

NOTE:

- 1. Please unplug the IPPBX Power, Before connect the Module.
- 2. All Module NOT support Hot-plug / Hot-swap

Slot 2 Slot 1 Image: Content of the second
--

SLOT	Module
SLOT1	supported 4FXS 4FXO 2FXOS 2GSM 4SGM 1PRI
SLOT2	supported 4FXS 4FXO 2FXOS 2GSM 4SGM

Step for connect the Module.

- 1. Unplug the power supply.
- 2. Plug the card to the Slot 1
- 3. Go to System -> Module Settings
- 4. On **Module Type** to select SLOT 1 which Module was inserted, then click **save**.

• Home	Module Settings
Operator	SLOT 1
Basic	Module Type: FXS/FXO/GSM 🔻
Inbound Control	Ster Start
Advanced	ISDN BRI
Network Settings	
Security	
Report	
System	
• Time Settings	
• Module Settings]
• Data Storage	Ţ

5. Click **Yes** to confirm and the system will reboot.

Settings Saved				
Settings saved successfully. New changes will take effect after the PBX restarted. Do you wish to reboot now?				
Yes	No			

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Chapter 3: Basic Configuration & Outgoing Call

Extension Configuration

SIPDEX M-200 IPPBX Supports SIP/ IAX2 and analog extensions as well as the ability to "Batch Add Users" by uploading extensions file.

Click **Basic** -> **Extensions** to configure:

• Home	Exte	ensi	ns						
Operator				Extensions		Upload/	Download E	xtensions	
Basic									
 Extensions 	Ext	ens	ion:	Search S	how A	AJI			
• Trunks									
Outbound Routes	Ne	wU	ser Ba	tch Add Users Del	ete Se	elected Us	ers		
Inbound Control	Ext	ensi	ons						
Advanced			Name	Extension	Port	Protocol	DialPlan	Outbound CID	Options
Notwork Cottings		1	800	800		SIP	DialPlan1		Edit
Network Setungs		2	801	801		SIP	DialPlan1		Edit
Security		3	802	802		SIP	DialPlan1		Edit
		4	803	803		SIP	DialPlan1		Edit
Report		5	804	804		SIP	DialPlan1		Edit
		6	805	805		SIP	DialPlan1		Edit
System		7	806	806		SIP	DialPlan1		Edit
		8	807	807		SIP	DialPlan1		Edit
		9	808	808		SIP	DialPlan1		Edit
		10	809	809		SIP	DialPlan1		Edit

Click **New User** to see the extension configuration interface as shown below:

		New		х
General				
SIP:	×	IAX2:		
Name:	810	Extension:	810	
Password:	YKJy6w!72R	Outbound CID:		
DialPlan:	DialPlan1 🔹	Analog Phone:	None 🔻	
Voicemail				
Enable:	v	Password:	1234	
Delete VMail:		Email(Fax/Voicemail):		
Other Option	15			
Web Manage Allow Being S Mobility Exter	r: 🗹 Agent: Spied: 🗌 Pickup (nsion: 🗌 Mobility	Call Waiting: Group: Extension Number:	₹	
VoIP Setting	5			
NAT: 🗹	Transpor	rt: UDP 🔻	SRTP:	
DTMF Mode:	RFC2833 V	Permit IP:		
Video Option	15			
Video Call:	H.261	1 H.263 H.263+ H	4.264	
Audio Codec	5			
g722 g726 gsm speex Disallow	ved	aw aw 729 Allowed ave Cancel		

Extension Settings

Item	Explanation	
SIP / IAX2	Choose extension protocol.	
Name	Extension Name (English Character Only), e.g. Tom.	
Extension	Extension Number connected to the phone, e.g. 888.	
Password	Password must be 6-16 digits, (e.g.12u3b6)	
Outbound CID	Override the caller ID when dialing out with a trunk.	
Dial Plan	Please choose the Dial Plan which is defined in the menu "Outbound Routes".	
Analog Phone	Please select the related FXS port for your analog phone.	
Voicemail	Select this option to open the voicemail account	
VM Password	Set password for Voicemail, (e.g. "1234")	
Delete VMail	Check this option to delete voicemail from system after it's sent to mail box.	
Email (Fax/Voicemail)	Extension user's mail box, which is used for receiving fax or voicemail (you need to open the function to fax to email/voicemail), e.g. Tom@gmail.com	
Web Manager	It's allowed to login Extension Management Panel to manage extension like voicemail, call recording, call transfer, etc. when you select this option.	
Agent	Check this option to set this extension user as agent.	
Call Waiting	Enable call waiting	
Allowing Being Spied	Check this option to allow being spied.	
NAT	Check this option if extension user or the phone is located after the NAT (Network Address Translation) available gateway.	
Pickup Group	Select the Pickup Group which the extension user belongs to.	
Mobility Extension	After checking this option, you must set mobility extension number. User can make calls to the IP PBX server with this mobility number, and have all rights of this extension, e.g. Outbound Call, Internal Call, Listen to the voicemail.	
Transport	Select the Transport Protocol: UDP, TCP, TLS	

SRTP	Enable SRTP
DTMF Mode	Default DTMF is rfc2833. It can be changed if necessary.
Video Call	Check to enable video call for this extension. And select the audio codecs you need to use.
Permit IP	Set IP-Phone permitted IP to visit this IP PBX, e.g.192.168.1.77or 192.168.10.0/255.255.255.0. IP-Phone with other IPs is not allowed to visit this IP PBX.
Audio Codec	Select what audio codec you need to use.

NOTE:

- 1. There are few default extensions which number started with "8XX", you can add or delete extension by your requirement.
- 2. To change the Extension
- 3. Maximum extensions: 100.
- 4. For security reason the default password is random *character / symbol / number* e.g. BB%ChH64rI, and every time when you reset to default system, it will randomly have a new password again.

Change the Extension range

To Change the range of extensions.

Go Advanced -> Options -> General -> Extension Preferences.

Extension Preferences				
User Extensions <u>800</u>	to 899			
Conference Extensions 900	to <u>909</u>			
IVR Extensions 610	to <u>629</u>			
Queue Extensions <u>630</u>	to <u>639</u>			
RingGroup Extensions <u>640</u>	to <u>659</u>			
PagingGroup Extensions 660	to <u>679</u>			
Reset				

And then click Save.

Default settings for New User

To change default settins for New User.

Go Advanced -> Options -> General -> Default settings for New User



And then click **Save**.

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Trunks

If you want to set up outbound call to connect to PSTN (Public Switch Telephone Network) or VoIP provider, please configure on this page: **Basic** -> **Trunks**

• Home	VoIP Trunks		
 Operator 	VoIP Trunks		
Basic			
 Extensions 	List of Trunks New VoIP Trunk		
• Trunks	Provider Name Type Hostname/IP Username Options		
 Outbound Routes 			
Inbound Control	No <i>VoIP Trunk</i> defined		
Advanced	Please click on 'New VoIP Trunk' button		
Network Settings	to add a frunk		
Security			
Network Settings Security	to add a Trunk		

FXO / GSM Trunk

You can configure the Analog / GSM line through SIPDEX IPPBX. The same analog line can't be used in multiple trunks.

Note: If you don't have available analog/GSM trunk Module, you can't set up trunk.

Click FXO/GSM Trunk -> New FXO/GSM Trunk

	New FXO/GSM Trunk	х
Description:		
Lines: F	XO: 3 4	
(SM:	
Prefix:		
	Advanced Options	
Call Method:	Order 🗸	
Busy Detection:	Yes V Busy Count: 3	
Input Volume:	40% ✔ Output Volume: 40% ✔	
Call Progress:	No V Progress Zone: US V	
Busy Pattern:	Language: Default 🗸	
Answer on Pola	rity Switch: No 🗸	
Hangup on Pola	rity Switch: No 🗸	
Auto Fax Detect	ion: 🗌	
	Save Cancel	

Item	xplanation	
Description	Define the description for this trunk (figure or character).	
Lines	vailable line	
Prefix	The prefix will be added to the dialed number automatically when this trunk	
	is in use.	
Advanced Options	Advanced Options for this trunk, e.g. Call Method, Busy Detection, etc.	

NOTE:

Set the available analog line for this device. The same analog line can't be used in several FXO/GSM trunks. If you don't have available analog line, you can't set up FXO/GSM trunk.

E1/T1 Trunk (PRI Trunk)

You can configure the T1 / E1 line through SIPDEX IPPBX.

Note:

- 1. If you don't have available 1PRI trunk Module, you can't set up trunk.
- 2. 1PRI Module must be install in slot 1 only

Step for configuration for the E1/T1

- 1. Go System -> Module Settings
- 2. Choose E1 / T1 connection
- 3. Choose your **Signaling**, **Framing**, **Coding**, **CRC4** settings for connect your PSTN
- 4. Click Save

Module Settings

SLOT 1	
Module Type: E1/T1 Settings: Mode: Signaling: Framing: Coding: CRC4:	E1/T1 T1 CPE ESF B8ZS Save Cancel

5. Click **Yes** to confirm and the system will reboot.

Settings Saved				
Settings saved successfully. New changes will take effect after the PBX restarted. Do you wish to reboot now?				
	Yes	No		

VoIP Trunk (SIP Trunk)

1. Click VoIP Trunk -> New VoIP Trunk

New VoIP Trunk	х
Description: Protocol: SIP Host:	
Advanced Options	
Domain: Insecure: port,invite From User: Qualify(sec): 2 DID Number: Transport: UDP V	
Auto Esu Debestieu	
Auto Fax Detection:	
🔲 alaw 🔤 ulaw 🔤 G.722 🔤 G.729 🔤 G.726 🔤 GSM 🔤 Speex	
Video Codes	
Save Cancel	

Item	Explanation		
Description	Define the VoIP (figure or character).		
Protocol	lect protocol for outbound route, SIP or IAX2.		
Host	Set host address (provided by VoIP Provider).		
Maximum Channels	Set maximum channels for simultaneous call. (Only for outbound call; "0" = no limitation).		
Prefix	The prefix will be added in front of your dialed number automatically when the trunk is in use.		
Caller ID	This Caller ID will be displayed when user make outbound call.		
Without	If you don't need the Authentication when connecting the IP PBX, please check this option.		
User Name	User Name provided by VoIP Provider.		
Password	Password provided by VoIP Provider.		
Advanced Options	Advanced options for this trunk, e.g. codec, dial plan, etc.		

Outbound Routes

Outbound Routes is to define what trunk is used for outbound call by extension user. If user don't allow extension user to call out, please ignore this part.

Configure on this page: **Basic** -> **Outbound Routes**

• Home	DialPlans				
Operator			DialPlans	DialRules	
Basic					
 Extensions 	List of Dial	Plans		New DialPlan	
• Trunks	Default	DialPlan Na	me Rules		Options
• Outbound Routes	✓ 1	DialPlan1	Extensions, Spy, Groups, IVR, Call	Conference, Ring Queues, Paging and	Edit Delete
Inbound Control			Intercom, Directo	ory, DISA	
Advanced					
Network Settings					

DialPlans

On DialPlans click Edit the DialPlan1

• Home	DialPla	ns				
Operator				DialPlans	DialRules	
Basic						
 Extensions 	List o	f Dia	IPlans		New DialPlan	
• Trunks	Defau	lt	DialPlan Na	me Rules		Options
• Outbound Routes		1	DialPlan1	Extensions, Spy, Groups, IVR, Cal	, Conference, Ring Il Queues, Paging and	Edit Delete
Inbound Control				Intercom, Direct	ory, DISA	
Advanced						
Network Settings						

Click [Click here] to create the new DialRules for using the trunk to call out.

Edit		х
DialPlan Name: <u>DialPlan1</u> —Include External Calling Rules <u>No Dial Rules defined.</u> You can <mark>click here t</mark> o create a Dial Rule.	Include Internal Calling Rules Extensions Spy Conference Ring Groups IVR Call Queues Paging and Intercom Directory DISA	
Save Cance	2	

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DialRules

Click New DialRule to create the New Dial Rule

• Home	DialRules			
Operator		DialPlans	DialRules	
Basic				
Extensions	List of DialRules		New DialRule	
 Trunks 	Rule Name	Dial Pattern	Call Usi	ing Options
• Outbound Routes	No Dial Rules defined, please click on 'New Dial	Rule' button		
Inbound Control	to create a New Dial Rule	.		

New Dial Rule



Item	Explanation			
Rule Name	Define the name for the dial rule.			
Pin Set	Input this Pin when you use this dial rule.			
Place this call through	Select a trunk for this dial rule			
Custom Pattern	any one digit from 1 to 9			
	N any one digit from 2 to 9			
	X any one digit from 0 to 9			
	. any one digit or multi-digit figures			
Delete[]digits prefix	If one digit prefix be deleted, when dial 12345, 2345 will be sent.			
Auto-add digit[]	If figure "1" is added,123451 will be sent when dialing 12345			



Chapter 4: Incoming Call

Inbound Routes

When a call is incoming from outside, you want to forward this call to an extension, ring group or IVR. This Chapter will introduce you how to deal with the inbound calls.

Click Inbound Control -> Inbound Routes

• Home	General			
Operator	General	Port DIDs	Number DIDs	DOD Settings
Basic				
Inbound Control	From FXO/GSM Cha	nnels		
 Inbound Routes 				
• IVR	Distinctive Ring T	one:		
 IVR Prompts 	Destination:	Goto IVR	 working time 	•
Call Queues				
Ring Groups				
 Black List 	From VoIP Channels	5		
 Do Not Disturb 				
• Time Based Rules	Distinctive Ring T	one:		
Advanced	Destination:	Goto IVR	 working time 	•
Network Settings				
Security		Sa	ave Cancel	

General

Distinctive Ring Tone: mapping the custom ring tone file, e.g. set distinctive ring tone as "External", the phone will play this ring tone when receiving the call.

Note: The phone must support such feature as well.

When incoming calls come from PSTN (FXO/GSM, PRI, VoIP), the calls can be accessed to Extension User, Call Queue, Conference, IVR, etc. You can choose freely based on your condition.

Port DIDs

If user wants to make the incoming call from the outbound line (FXO/GSM trunk) access to the specified extension user, Ring Group, call queue, conference or IVR, please configure it here:

Click Port DIDs-> New Port DIDs:

New P	ort DID X
Port: 💽 💌 Destination: Goto Extension	Label: 800(800) 💙
Save	Cancel

Item	Explanation
Port	Select the port for outbound line.
Label	Set a label for this port. When incoming calls are from this port, the label will be displayed.
Destination	Incoming calls will access directly to this destination (extension user, Ring Group, call queue, conference, or IVR).

Number DIDs

If you want to select the destination of inbound calls on PRI/BRI or VoIP Trunks based on the incoming DNIS (dialed number or DID). You can specify the DID and destination (user extension, queue, conference bridge, or IVR:

Click Number DID -> New Number DID

	New Number DID	×
DID Number: Destination:	Goto Extension 🛛 800(800) 💙	
	Save Cancel	

Item	Explanation
DID Number	DID number calling into VoIP (This number is configured in the advance option of VoIP trunk).
Destination	Choose a specified extension, call queue, conference or IVR to be directed to call.

DOD Settings

If user wants to make the outbound call directly to the specified extension user, Ring Group, call queue,

conference, IVR, please configure it here.

Click DOD Settings -> New DOD

	New DOD	×
DOD Number: Destination:	Goto Extension 💌 800(800) 💌	
	Save Cancel	

Item	Explanation
DOD Number	Set the DOD number, and use it to match the Caller ID.
Destination	Outbound calls will access directly to this destination (extension user, Ring Group, call queue, conference, or IVR).

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Ring Groups

Ring Group is defines a group number that rings a group of phones simultaneously, stopping when any one of them is picked up. If ring time exceeds a defined time, the call will be directed to IVR or others based on your configuration.



Click Inbound Control -> Ring Groups -> New Ring Group

Item	Explanation
Name	Define a name for the Ring Group.
Strategy	Select "Ring All" or "Ring in order".
Ring Group Members	Select the Ring Group Member from "the Available Channels", click 🗲 to add.
If not answered	You can choose to forward the call to extension, voicemail, ring group, IVR or hang up if not answered.

IVR (Interactive Voice Response)

IVR allows customers to interact with IPPBX via a telephone keypad, after which they can service their own inquiries by following the IVR dialogue. IVR systems can respond with prerecorded or dynamically generated audio to further direct users on how to proceed.

Please configure on this page Inbound Control -> IVR

Home	IVR			
Operator	List of IVRs		New IVR	
Basic	Extension	Name	Dial other Extensions	Options
Inbound Control	1 610	working time	Yes	Edit Delete
 Inbound Routes 	2 611	closed time	No	Edit Delete
• IVR				
IVR Prompts				
ck New IVR to create a new IV	VR:			
New 1	IVR	×		
VR Settings				
Name:	Extension: 612			
Welcome Message				
Please Select: Test Repeat Loops: None V Dial other Extensions	Custom Pro	ompts		
Ceypress Events				
0 Disabled V		~		
1 Disabled V				
2 Disabled 🔽				
3 Disabled 💌				
4 Disabled 💌				
5 Disabled 💌				
6 Disabled 🛛 🕑		E		
7 Disabled 🔽				
8 Disabled 🛛 💙				
9 Disabled 💌				
* Disabled 🛛 💟				
# Disabled 💌				
t Disabled 💌		~		
t Disabled 🕑				

Item	Explanation
Name	Set a name for the IVR
Extension	If you want to listen to the IVR by dialing number, input an extension
	Number you want.
Please Select	Select IVR audio file, please configure in this page:
	Inbound Control -> IVR Prompts
Repeat Loops	Loop times to repeat playing the IVR prompt.
Dial Other Extensions	Allow caller to dial other extensions besides the ones listed below.
Key Press Events	Each digit will be related to the actions defined in the blank.

IVR Prompts

Record / upload or listen IVR sound from extension. Please configure on this page:

• Home	IVR P	rompt	:s Ф				
 Operator 				IVR Prompts	Uploa	ad IVR Prompts	
Basic							
Inbound Control	List	of Pro	ompts 🌵		New Vo	ice Delete Sele	ected
 Inbound Routes 			Name			Option	IS
• IVR		1	closed.gsm		F	Record Again Pl	ay Delete 🞽
• IVR Prompts		2	welcome.gsm		F	Record Again Pl	ay Delete 赵

To record IVR Prompt by phone click **New Voice**

New Voice	×
File Name: Format: GSM 🛩 Extension used for recording: 800 💌	
Record Cancel	

Item	Explanation
File Name	Define a name for this voice file.
Format	Select the voice format, GSM / WAV (16bit) supported only.
Extension used for	Select the extension which is used for recording the IVR prompt. Click
recording:	Record , the extension will ring, and then you can pick up the phone and
	record.
You want to hear the prompt, please click Play

Play record voice	x
Extension used for playing: 800 V	
Play Cancel	

Select the extension, click **Play**, the selected extension will ring, and you will hear the recorded prompt after picking up the phone

Upload IVR prompt

• Home	Upload IVR Prompts			
 Operator 		IVR Prompts	Upload IVR Prompts	
Basic				
Inbound Control		Uploa	d IVR Prompts	
 Inbound Routes 	Note: The se	Note: The sound file must be wav(16bit/8000Hz/Mono), gsm, ulaw or alaw!		
• IVR		The size	is limited in 15MB!	
• IVR Prompts	Plea	ase choose file to uplo	oad: Choose File No file chos	en
Call Queues			Upload	
Ring Groups			opioad	
-1 1	-			

NOTE:

- 1. Uploading customized audio file must be wav(16bit/8000Hz/Mono), gsm, ulaw or alaw.
- 2. The size is limited in 15MB!

Blacklist

If some numbers need to be blocked, you can use this functionality

Click Inbound Control -> Blacklist -> New Blacklist

New Bl	acklist	х
Blacklist Number		_
Save	Cancel	

Input the caller ID in the blank and click **Save**. Next time calls from this caller ID will be blocked.

Do Not Disturb

Do Not Disturb (DND) function prevents incoming call on an extension for which DND is activated.

Click Inbound Control -> Do Not Disturb

Do N	lot D	isturb	New DND		Delete Selected	
		DND				Options
	1	500	New DND	х		Delete
			Extension: 503503 V			
			Save Cancel			

Time Based Rules

When an inbound call is processed, if the current time of the PBX is within these parameters, then the "if time matches" destination will be used for the call. If the current time of the PBX is outside these parameters, then the "if time does not match" destination will be used for the call.

Edit	×
Rule Name: TimeRule	
Time & Date Conditions	
Start Time: 09 💙 : 00 💙 End Time: 18 💙 : 00 💙 Start Day: Mon 💙 End Day: Sun 💙 Start Date: 01 💙 End Date: 31 💙 Start Month: Jan 💙 End Month: Dec 💙	
Destination	
if time matches: IVR working time 💉 if time unmatches: IVR closed time 💉	
Save Cancel	

New Time Rule:

Item	Explanation	
Rule Name	Define the name for this Time Rule.	
Time & Date	Set time segment for Day/ Date/ Month.	
Destination	How to deal with the inbound call in different time segments. For example, inbound call can be directed to operator in working time.	

Call Queues

Call Queuing is a queuing system that allows you to accept more calls into your telephone system than you have extension's agent capable of answering them.

Create Agent

To allow a user to be considered an agent in a Call Center queue, please check the "Agent" option for that specific user extension.

Check Agent and Save

		Edit	×
General			
SIP:	\checkmark	IAX2:	
Name:	800	Extension:	800
Password:	123456	Outbound CID:	
Dial Plan:	DialPlan1 V	Analog Phone:	None 🗸
Voicemail			
Voicemail:	\checkmark	VM Password:	1234
Delete VMail:		Email(Fax/Voicemail):	
Other Option	15		
Web Manage Allow Being S Mobility Exter	r: 🗹 Agent: Spied: 🗌 Pickup (nsion: 🗌 Mobility	Group: 1 V Extension Number:	Waiting:
VoIP Setting	S		
NAT: 🗹	Transpo	rt: UDP 🗸	SRTP:
DTMF Mode:	RFC2833 🗸	Permit IP:	
Video Optior	15		
Video Call:			
□H.261 □	H.263 🗌 H.263+ 🛛	H.264	
Audio Codec	5		
🗹 alaw 🔽 u	law 🗌 G.722 🗹 G. Sav	729 G.726 GSM re Cancel	Speex

Call Queues Configuration

Total have 3 Call Queue you can use in this system.

Click Inbound Control -> Call Queues

• Home	Call Queues 1			
• Operator	Call Queues 1	Call Queues 2	Call Queues 3	
Basic				
Inbound Control	Call Queue Reference:			
 Inbound Routes 	Queue Number: 630	Label:		
• IVR	Ring Strategy: Random	•		
 IVR Prompts 	Agents: You do not	t have any users defined	as agents!	
Call Queues	c	lick here to manage use	rs.	
 Ring Groups 				
• Black List				
• Do Not Disturb				
• Time Based Rules				
Advanced	Queue Options:	Announceme	ents:	
Network Settings	Agent TimeOut(sec): <u>15</u>	Caller Posit	ion Announcements	
Security	Wrap-Up-Time(sec): 10	e Announce H	ec): <u>30</u> old Time: ves ▼	
Report	Max Wait Time(sec):			
System	Max Callers: 8	Periodic An Repeat Fred	nouncements uencv(sec): 0	
	Leave Whe	en Empty Announceme	ents Prompt:	¥
	Auto Fill	If not answe	ered	
		Destination:	Hangup	_
		Save Cancel		

Item	Explanation
Queue Number	Define an extension number for the queue.
Label	Define the label for the queue.
Ring Strategy	RingAll Ring all available agents until one answers (default) RoundRobin Every available agent will take turns to ring. LeastRecent Agent with the least calls rings
	FewestCalls Agent with the fewest completed calls rings. Random Agent
Agent	Every extension defined as Agent will be listed here. Selected agent will be a member of the current Oueue.

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Queue Options:	Announcements:
Agent TimeOut(sec): <u>15</u> Auto Pause Wrap-Up-Time(sec): <u>10</u> Max Wait Time(sec): <u>8</u> Join Empty Leave When Empty Auto Fill Report Hold Time	Caller Position Announcements Frequency(sec): 30 Announce Hold Time: yes ▼ Periodic Announcements Repeat Frequency(sec): 0 Announcements ▼ Prompt: ▼ If not answered ▼ Destination: Hangup ▼

Item	Explanation
Agent TimeOut (sec)	The next Agent will ring after this time.
Auto Pause	Pause the Agent when it fails to answer the first call.
Wrap-Up-Time (sec)	Wrap-up time between the first answer and second answer. (Default is 0, which means no wrap-up time.)
Max Wait Time (sec)	Maximum wait time for callers in the queue.
Max Callers	Maximum number of callers who are allowed to wait in the queue.
Join Empty	Allow callers to enter the Queue when no Agents are available. If this option is not defined, callers will not be able to enter Queues with no available agents.
Leave When Empty	All callers in the Queue will be moved out when new caller cannot enter the Queue. This option cannot be used with Join Empty simultaneously.
Auto Fill	Callers will be distributed to Agent automatically.
Report Hold Time	Report the hold time of the next caller for Agent when the Agent is answering the call.
Frequency(sec)	Repeat frequency to announce the hold time for callers in the Queue. ("0" means no announcement).
Announce Hold Time	Announce the hold time. Announce (yes), not announce (no) or announce once (once), I will not be announced when the hold time is less than 1 minute.
Repeat Frequency(sec)	Interval time to play the voice menu for callers. ("0" mean not to play).
Announcement Prompt	Select a prompt as the Announcements Prompt from the IVR Prompts.



Chapter 5: System Feature

Voicemail

Details configuration on Voicemail: Voicemail Reference/ Voice Message Options/ Playback Options. If you need to send message by mail to your defined mailbox, you must configure SMTP and Email model.

Click Voicemail to display the dialog as shown below

General

	General	Email Settings	
VoiceMail Reference			
Max Gre Dial "O"	eeting Time(sec): for Operator:	30 🔽	
Voice Message Optio	ins		
Messag	e Format:	WAV (16-bit) 💟	
Maximu	m Messages:	100 💌	
Mary Mar.	ssage Time(min):	2	
Max Me			

Playback Options

✓ Say Message CallerID ✓ Say Message Duration	
Play Envelope Allow Users to Review	

Item	Explanation
Max Greeting Time(sec)	Maximum Greeting Time
Dial "0" for Operator	Dial "0" to cancel the voicemail and forward to Operator.
Message Format	Save the voice message as this format, WAV (16-bit) or Raw GSM.
Maximum Messages	Maximum messages to be allowed to leave.
Max Message Time(min)	Maximum Time for each message to be allowed to leave.
Min Message Time(sec)	Minimum Time for each message. The message will be deleted
	automatically if the time is less than the minimum message time.
Say Message Caller ID	Checking this option, Caller ID will be played when user login email to
	receive the voice message.
Say Message Duration	Checking this option, the message duration will be played before playing
	the voice message.
Play Envelop	Envelop includes date, time and caller ID.
Allow Users to Review	Check this option to allow users to review the voice message.

Voicemail to Email Settings

Email Settings

	General	Email Settings			
Template for Voicemail Emails					
Sender Name From Subject Message	Attach voicemai test pbx@zycoo.com New Voicemail fro Hello \${VM_NAME \${VM_DUR} at \${ (\${VM_CALLERID	I to email <u>m \${VM_CALLERID}</u> ;}, you received a messa VM_DATE} from, }).	ige lasting		
Template \${ Variables: \${ \${ \${ \${ me \${ \${	VM_NAME} : Recipi VM_DUR} : The du VM_MAILBOX} : Th VM_CALLERID} : Th Ssage VM_MSGNUM} : The da	ient's first name and last ration of the voicemail m le recipient's extension he Caller ID of the perso e message number in yo ate and time the messag	: name essage n who left the iur mailbox je was left		

Item	Explanation
Attach voicemail to Email	The voicemail will be sent as attachment to the user's Email.
Sender Name	The sender's name will be displayed when you receive the Email.
From	Mailbox to send email
Subject	Subject of the Email.
Message	Input the Email template.

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Conference Bridge

A conference bridge allows a group of people to participate in phone call. The most common form of bridge allows participants dial into a virtual meeting room from their own phone. Meeting rooms can hold dozens or even hundreds of participants.

This M-200 supports 3 conference rooms. Please configure it on this page

• Home	Conference Default				
Operator					
Operator	Conference Default Conference 2 Conference 3				
Basic					
Inbound Control	Conference Number				
Advanced	Room Extension: <u>900</u>				
 Options 					
Voicemail	Conference Password				
 SMTP Settings 	Guest Password: 1234				
• Email to Fax	Administrator Password: 2345				
Conference					
 Music Settings 	Conference Options				
• DISA	Conference DialPlan DialPlan1 🔻				
 Follow Me 	 Play hold music for first caller Enable caller menu 				
Call Forward	Enable caller menu Announce callers				
 Paging and Intercom 	Record conference				
• PIN Sets	Quiet Mode Close the conference when last administrator exits				
Call Recording	Leader Wait				
Smart DID	Save Cancel				
 Callback 					

Item	Explanation
Conference Number	The number that users call in order to access the conference room; the default number is "900".
Conference Password	Password for users to access the conference, e.g."1234".
Administrator	Password for administrator to access the conference.
Conference DialPlan	Use this dial plan to invite other participants.
Play hold music for the first participant	Check this option to play the hold music for the first participant in the conference until another participant enters this conference.
Enable caller menu	Check this option to allow the participant to access the Conference Bridge menu by pressing "*" on the dialpad.
Announce callers	Check this option to announce to all Bridge participants that a new participant is joining the conference.
Record conference	Recorded conference format is WAV.
Quiet Mode	If this option is checked, all the participants in the conference can hear only, but it is not allowed to speak.
Leader Wait	Wait until the conference leader (administrator) enters the conference before starting the conference.

Please check the following diagram to learn:

Go to conference:



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In the conference, admin can add new participant (extension user or external number) to the conference.

In the conference, the administrator can invite new guest (extension user or external number) to the conference. (Default password for admin is 2345)

Learn how to invite new guest to the conference as the diagram is shown below:

Conference Ro	om	Input function key "0" and number who you want to inv	function key *# ite		The called party hang up	Adm the	in back to
Guiz	•	(0 + Number)	function key **	Þ	The called party g into the conferen	ice	Cut
			* *	►	Guis		
Invite ne	wc	onference member					

Paging and Intercom

Paging and Intercom is used for calling a paging extension; all terminals which support this function will be picked up automatically and listen; meanwhile, it supports duplex.

Click Advanced -> Paging and Intercom -> New Paging Group



Item	Explanation	
Paging Extension	The number users will dial to page this group.	
Description	Provide a descriptive title for this Page Group.	
Paging Group Members	Selected device(s) on this page	
Device List	Select Device(s) to page.	
Duplex	Paging is typically one way for announcements only. Checking this will make the paging duplex, allowing all phones in the paging group to be able to talk and be heard by all. This makes it like an "instant conference".	

NOTE:

For Paging/Intercom function extension (IP phone), support Auto Answer

DISA

A trunk call is made to the PBX, and call is made to another trunk through outbound route of the PBX. This trunk can make international calls. You are out of the office and want to contact your customer in a foreign country. Now you can dial DISA number after PIN authentication. You are now connected to your customer, and you can speak to your customer now.

Click **DISA** -> **New DISA** to display the dialog as shown below

New DISA	×
Name:	
PIN:	Without PIN
Response Timeout(s): 5	
Digit Timeout(s): 3	
Extension for this DISA(Optional)	:
Allow Outbound Route Select DialPlan DialPlan1 Save Cancel	v

Item	Explanation
Name	Define a name for DISA.
PIN Set	User will be prompted to input this number when PIN Authentication is needed.
Record in CDR	Check to record.
Response Timeout(sec)	The maximum time for waiting before hanging up if the dialed number is incomplete or invalid. Default is 10 seconds
Digit Timeout(sec)	The maximum interval time between digits when typing extension number is 5 seconds by default.
Extension for this DISA(Optional)	If you want to access DISA by dialing an extension, you can define an extension number for this DISA.
Select Dial Plan	Select the Dial Plan for this DISA.

Phone book

Manage your Phone book and set the Phone book Contact for speed Dial.

Click Advanced -> Phone book

Phone Book

Phone Book		Import Export Delete All		
The prefix of speed dial: *	599 Sa	ve Cancel		
Field: Name	Filter	Create Contact	Delete Selected	
Name Name	Phone Number	Speed Dial	Options	
	No Contact de	efined!!		

Create Contact

	Create Contact	x
Name:		
Phone Number:		
Speed Dial:		
Save	Cancel	

Using Phone book for Speed Dial

E.g. prefix is *99, speed number is 00, destination telephone number is 2345678. When dialing *9900,

The call is going to 2345678 automatically.

Callback

When user makes calls by the callback number to M-200 IPPBX, the call will be hung up automatically. Then the PBX will call back this number and forwarded to define destination after the call is connected. Please configure it as shown below

Click Advanced -> Callback

Callback Number Settings

	Callback Number Settings	
	Enable: Strip:digits before dialing Prepend:before dialing DialPlan: Save Cancel	
List of Callback Number	New Callback Number	
Callback Number	Destination	Options
	No Callback Number defined!	

At first, enable this function. Select Dial Plan, and define the callback rule (strip digits or prepend prefix). Click New Callback Number to add callback number

New Callback Number X
Callback Number:
Destination: Goto Extension 💌 800(800) 💌
Save Cancel

Input callback number and define the destination

Smart DID

Smart DID: After extension user makes an outbound call, the call is ringing back to IP PBX, and directed to the one who made the last call. Please configure it as shown below

Edit Delete

Click Advanced -> Smart DID

Smart DID

1 X.

	Sma	art DID	
	Enable Save	e: Cancel	
Smart DID Rules List		New Smart DID Rule	
Pattern	Strip	Prepend	Options

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

Click **New Smart DID Rule** to display the following diagram:

	New Smart DID Rule	х
Pattern:		
Strip:	digits before dialing	
Prepend:	before dialing	
	Save Cancel	

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

Pin Sets

That Pin can used for DialRules

Click **PIN Sets** -> **New PIN Set** to display the dialog below:



Item	Explanation
PIN Set Name	Define the name for this PIN Set.
PIN List	Define PIN codes is this list.

Chapter 6: Extension User Web Portal

Enable Extension User Web Portal

Allowed access to the User Web Portal.

Basic-> Extension -> Edit the extension you want to configure

		Edit)
General			
SIP:	\checkmark	IAX2:	
Name:	800	Extension:	800
Password:	123456	Outbound CID:	
Dial Plan:	DialPlan1 🗸	Analog Phone:	None 🗸
Voicemail			
Voicemail:	✓	VM Password:	1234
Delete VMail:		Email(Fax/Voicemail):	
Other Option	15		
Web Manage Allow Being S Mobility Exter	er: 🔽 Agent: Spied: 🗌 Pickup Insion: 🗌 Mobility	Group: 1 V Extension Number:	l Waiting: 🗌
VoIP Setting	5		
NAT:	Transpo	rt: UDP 🗸	SRTP:
DTMF Mode:	RFC2833 🗸	Permit IP:	
Video Option	15		
Video Call:			
H.261	H.263 🗌 H.263+ [H.264	
Audio Codec	5		
🗹 alaw 🗹 u	law □G.722 ✔G Sav	.729 G.726 GSM re Cancel	Speex

Select the "Web Manager" box under "Other Options", then check **Web Manager** and click **Save**.

Login to the Extension Web Panel

Using Extension Number for the Username & Voicemail Password to login Web GUI.

Sipdex	M-200 IPPBX SYSTEM
Username: Password: Language: Engli	sh T Login

Phone Book

Mange the Phone Book for Speed Dial

Phone Book	Phone Bo	ook					
 Call Logs 	Phone B	ook					
 Record List 	Field:	Name V	Filter	Create Contact	De	lete S	elected
 Voicemail List 	Field.	tome •					
 Call Forward 		Name	Phone Number	Speed Dial		Optio	ons
Follow Me	1	Amanda	654713144	02	Call	Edit	Delete
• Settings	2	David	138564729	01	Call	Edit	Delete
 Send Fax 							

Item	Explanation
Filter	Search contacts, by name, phone number or speed dial
Create Contact	Create a contact
Delete Contact	Delete a selected contact
Call	Click to call the number directly

Call Logs

Report your Call-in / Call-out record.

Phone Book	Call Logs					
Call Logs	Start Date:	Mar 🗸 6 🗸 2012 🗸	•	Field: Caller ID	¥ 501	
 Record List 	End Date:	Mar 🗸 6 💙 2014 🗙	r			
 Voicemail List 	Call Start	Caller ID	Destination 1D	Account Code	Duration(sec)	Disposition
Call Forward	2014-03-05 15:29:10 2014-02-28 16:43:47	Create	Contact	×	4 27	ANSWERED ANSWERED
Follow Me	2014-02-28 14:41:12 2014-02-28 13:55:33	2014-02-28 14:41:12 2014-02-28 13:55:33 Name:		34	ANSWERED	
. Cattings	2014-02-28 13:56:02			1	ANSWERED	
 Securigs 2014-02-28 13:55:48 	2014-02-28 13:55:48	Phone Number: 500			1	ANSWERED
 Send Fax 	2014-02-28 13:53:17			- A	10	ANSWERED
	2014-02-28 13:53:30	Coll So	Cancel		1	ANSWERED
	2014-02-28 13:52:58	Car Dave Carrer			4	ANSWERED
	2014-02-28 13:52:24				20	ANSWERED
	2014-02-28 13:51:46				21	ANSWERED
	2014-02-28 13:50:45	501 <501>	0		4	ANSWERED
	2014-02-28 13:51:01	zhang1 <501>	501		0	ANSWERED
	2014-02-28 12:03:44	501 <501>	900		9	ANSWERED
	2014-02-28 12:02:56	501 < 501>	900		12	ANSWERED
	2014-02-28 12:02:39	501 <501>	900		8	ANSWERED
	2014-02-28 12:01:23	501 < 501 >	conference		15	ANSWERED

Select the Start Date & End Date to filter your call log.

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Recording List

To download and manage your Voice log.

Call Recording

	Call Recording	One Touch Recording
Start Date: Apr	✓ 26 ✓ 2013 ✓	End Date: Apr 💌 26 💌 201
List of Recording	g Files	
Caller ID	Destination ID	Date

Select the Start Date & End Date to filter your voice log.

Voicemail List

To manage your voicemail.

Voicema	ail 🗘				
Field:	New 🚩	Move to	Field : New 💙		
List of	Voicemail Files			Delete Selected	
	Caller ID		Date	Duration(sec)	Options
			No voicemail message foun	d!	

Click **Move to** to move the voicemail to another field.

Check one voicemail file, click **Delete Selected** to delete the selected voicemail file; or click **Delete** after the voicemail file to delete the voicemail.

Call Forward

Redirects a telephone call to another destination status in Always / Busy / No Answer.

Forward Settings			
	Always _ Busy _ No Answer_ Save	Cancel	-

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

Follow Me

If no answer from extension, when the ring times out, the calls will be forwarded one by one to the number listed in <Follow Me List>.

Enable: Ring lasting for <u>20</u> seconds Follow Me List:	
Save Cancel	
	Enable: Ring lasting for 20_ seconds Follow Me List: Save Cancel

Item	Explanation
Enable	Check the Enable box to enable this function.
Ring lasting for _ seconds	The seconds ringing, the call will be forwarded from your extension
Follow Me List	The destination will be forwarded

Settings

User settings for Enable/Disable Call Waiting, Do Not Disturb.

And Change VM Password

User Settings

Options				
	Call Waiting: VM Password: <u>1234</u>	Save	Cancel	Do Not Disturb:

Send Fax

The fax can be sent by WEB and Email. Fax format must be .tif or .tiff.

	Send Fax	Fax Log	
	Send	Fax	
	Destination: Send fax must	be .tif or .tiff.	
Please cho	ose file to upload:		浏览
	Uploa	d	

Enter the receiver's fax number in **Destination**, click **browse** to select the fax file, then **Upload**.

Chapter 7: Feature Code

To change the default Feature Code

Go Advanced -> Feature Codes

Change the codes and then press **save**.

• Home	Feature Codes		
Operator	Feature Codes Management		
Basic	Call Parking		
Inbound Control	Extension to Dial for Parking Calls: <u>700</u> Extension Range to Park Calls: 701-720		
Advanced	Call Parking Time(sec): 45		
Options	Parking Hints:		
	Pickup Extension: <u>*8</u>		
 Voicemail 	Pickup Specified Extension: **		
 SMTP Settings 	Transfer		
	Blind Transfer: #		
 Email to Fax 	Disconnect Cally *		
 Conference 	Timeout for answer on attended transfer(sec): 15		
Music Cattings	One Touch Recording		
Music Settings	One Touch Recording: <u>*1</u>		
 DISA 	Call Forward		
a Follow Mo	Enable Forward All Calls: *71		
• Follow Me	Enable Forward on Busy: *72		
 Call Forward 	Disable Forward on Busy: *072		
Paging and Intercom	Enable Forward on No Answer: *73		
• r aging and meercom	Disable Forward on No Answer: *073		
 PIN Sets 	Do Not Disturb		
 Call Recording 	Disable Do Not Disturb: *74		
• Smart DID	Spy		
• Smart DiD	Normal Spy: <u>*90</u>		
 Callback 	Whisper Spy: <u>*91</u>		
 Phone Book 	Barge Spy: <u>*92</u> Black List		
• Eastura Codos	Blacklist a number: <u>*75</u>		
• Feature Codes	Remove a number from the blacklist: <u>*075</u>		
 Phone Provisioning 	Save Cancel		
Notwork Cottings			

Do Not Disturb

Item	Explanation
*74	Enable Do Not Disturb.
*074	Disable Do Not Disturb.

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Call Pickup

This feature allows users to answer a call that is ringing on another user's extension by pressing the selected feature code on their own phone as shown in the diagram below.



Item	Explanation
*8	Input function key *8 to pick up the registered extension which is in the same pickup group
** + Extension Number	Input function key ** and define another extension to pick up. This can be defined in Feature Codes

Call Parking

If you pick up a call at your seat, but it's not convenient to talk in public, you need go to the conference room to talk secretly. At this time, you can input 700 to park this call. The system will tell you a parking number 701 which you can input for continuing conversation when you go to the conference room. Please check the following diagram to learn more:



Item	Explanation
Extension to Dial for Parking	Default Number: 700, Define in Feature Codes
Calls	
What Extension to park calls on	Default Number: 701 - 720. Define in Feature Codes
How many seconds a call can be	Default is 45 seconds. Define in Feature Codes .
parked for	

Call Transfer

This feature allows an incoming call that is answered on one extension to be sent to another user's extension. Refer to the diagram as below:



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

Blacklist

To maintain this list of blocked numbers, see the instructions in the following diagram:



Reference Parameters and Explanation of the Blacklist:

Item	Explanation
*75	When the registered extension user inputs *75 + blacklisted number, this number will be added in the list of Blacklist Number.
*075	When the registered extension user inputs *075 + blacklist number, this number will be deleted in the list of Blacklisted Number.

Chapter 8: Fax

Fax to Email

The capabilities receive faxes as TIF attachments into your email inbox.

Step for Create the Extension for receipt the Fax:

- 1. Go Basic -> Extensions -> New User
- 2. Check SIP , input the Extension number in the Extension
- 3. Fill in the email address in Email(Fax/Voicemail)
- 4. Click Save. (See Figure 8.1)
- 5. Go Inbound Control -> Inbound Routes
- 6. Al the Destination fill can be select Goto Fax, and then select Fax2Email [your extension number] (See Figure 8.2)

		New		Х
General				
SIP:		IAX2:		
Name:	810	Extension:	810	
Password:	A9sHdr!ADJ	Outbound CID:		
DialPlan:	DialPlan1 🔹	Analog Phone:	None 🔻	
Voicemail				
Enable:		Password:	1234	
Delete VMail:		Email(Fax/Voicemail):	your@email.com	
Other Option	15			
Web Manage Allow Being S Mobility Exter	r: 🗹 Agent: pied: 🗌 Pickup (nsion: 🗌 Mobility	Call Waiting: Group: Extension Number:	v	
VoIP Setting	5			
NAT:	Transpor	t: UDP 🔻	SRTP:	
DTMF Mode:	RFC2833 V	Permit IP:		
Video Option	15			
Video Call:	H.261	H.263 H.263+ H	4.264	
Audio Codec	5			
g722 g726 gsm speex		aw 229		
Disallow	/ed	Allowed		
	Sa	ave Cancel		
		Figure 8.1		





Figure 8.2

Email to Fax

Users can send fax by Email. Please configure as shown below.

Click Advanced -> Email to Fax

Email to Fax

Email to Fax	
Enable: Username: Password: IMAP Server: SSL/TLS: Access Code: DialPlan:	Save Cancel

Check **Enable**, input user name, password and IMAP Server, select the DialPlan and then "Save" and "Activate".

Practical Case:

Send a fax to telephone number 12345678: In Dial Plan 1, there is prefix "9" before the telephone number; you need to input the Access Code : 912345678 and take it as the subject when sending Email. Then the fax will be sent by Email as attachment.

If you need to dial the extension when sending fax, e.g. fax number: 12345678 ext.888, you need to use the Access Code : 912345678-888 as subject.

Chapter 9: Call Recording

Recording on Specified Extension

Call Recording is used for recording extension. Please configure it as shown below:

Click Advanced -> Call Recording -> New Call Recording

New Call Recording	х
Extension:	
Call Recording Time	
Always Recording: Start Time:	
Call Recording Settings	
Inbound Record: Outbound Record: Save Cancel	

Reference:

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

One Touch Recording

Easily record conversations on demand.

NOTE:

The Extension is on the line, press *1 to start the recording.

Click **One Touch Recording**, select the Start Date & End Date for filter your voice log.

One Touch Recording

	Call Recording	Conference	One 1	Fouch Recording	
Extens	sion: 💌 Delete				
Start D	Start Date: Jun ▼ 9 ▼ 2014 ▼ End Date: Jun ▼ 9 ▼ 2014 ▼ Filter				
List of	Recording Files		Delete	Selected	
	Caller ID	Destination ID	Date	Options	



Chapter 10: Networking

Static Route

Provide additional routing information to your IPPBX. Under normal circumstances, the router has adequate routing information after it has been configured for Internet access, and you do not need to configure additional static routes. You must configure static routes only for unusual cases such as multiple routers or multiple IP subnets located on your network.

Click Static Routing -> New Static Routing

New Static Routing	х
Destination Network: Subnet Mask: Gateway: Save Cancel	

Item	Explanation
Destination Network	Input destination network
Subnet Mask	Input subnet mask
Gateway	Input gateway

Example:

M-200 need connect SIP Trunk provider device 10.0.0.1/8 through SIP Trunk gateway 192.168.1.200, the setting will be such as following figure:

New Static Routing		
Destination Network: Subnet Mask: Gateway: Save	10.0.0.0 255.0.0.0 192.168.1.200 Cancel	

Virtual Interface

You can configure the Virtual interface

Click Network Settings -> Network IPv4 Setting

Network

	IPv4 Setting	js	IPv6	Settings	VL	AN Settings	
Ethernet	Port Setup						
		IP As IP Addr Subnet Gatewa Primary Alterna	sign: ress: : Mask: ay: / DNS: te DNS:	Static 192.168.10 255.255.25 192.168.10 8.8.8.8	• 0.253 5.0 0.254		
Virtual In	terface						
	IP AddressV1: IP AddressV2:			Subnet Subnet	MaskV1: MaskV2:		

VLAN Settings

Defend VLAN on network environment can be increase security or management from other VLAN.

Click Network Settings -> Network -> VLAN Settings

Network

	IPv4 Settings	IPv6 Settings	VLAN Settings	
VLAN 1				
	VLAN Si	Enable: VLAN ID: IP Address: ubnet Mask:		
VLAN 2				
	VLAN Si	Enable: VLAN ID: IP Address: ubnet Mask:		

Item	Explanation
Enable	Enable / Disable VLAN
VLAN ID	Input VLAN ID, range between 1- 4094
VLAN IP Address	Input VLAN IP for specific network
Subnet Mask	Input VLAN subnet

DHCP Server

DHCP is a network protocol that enables a server to automatically assign an IP address to a computer from a defined range of numbers.

Click Network Settings -> DHCP Server

DHCP Server

	DHCP Server	DHCP	Client List	Static MAC	
DHCP Server Settings					
	Enable: Start IP End IP: Subnet Gatewa Primary Lease T TFTP Se	: Mask: y: DNS: ime(min): rver: Save	192.168.1.101 192.168.1.200 255.255.255.0 192.168.1.1 61.139.2.69 1440		

Item	Explanation
Enable	Enable / Disable DHCP server
Start IP	Define the first IP for DHCP
End IP	Define the last IP for DHCP pool
Subnet Mask	Define subnet mask
Gateway	Define Gateway IP
Primary DNS	Define Primary DNS
Lease Time(min)	Define lease time to release IP
TFTP Server	Define TFTP server for using Phone provisioning

When DHCP Server distributes address, the Client's MAC address is associated with the IP address, and then the device will get the same IP address every time.

Click Network Settings -> DHCP Server -> Static MAC -> New Static MAC

	New Static MAC	х
MAC Address: IP Address:	Save Cancel	

Item	Explanation
MAC Address	Input MAC Address that device need set static IP by M200
IP Address	Input IP address for specific device

VPN Server

SIPDEX IP PBX supports three kinds of VPN servers: L2TP, PPTP and OpenVPN.

Click Network Settings -> VPN Server

VPN Server

	VPN Server	VPN Users Management	
VPN Server			
	L2TP	PPTP OpenVPN	
Enable: Remote Remote Local IP Primary Alterna Authen Debug:	e Start IP: End IP: 2: DNS: te DNS: tication Method:	chap pap Save Cancel	

Reference:

Item	Explanation
VPN Server Mode	L2TP, PPTP and OpenVPN (Only one mode can be enabled as the same time)
Enable	Enable / Disable VPN Server

Create PPTP and L2TP Account

If you choose PPTP or L2TP VPN method, you need create VPN user for PPTP.

Click Network Settings -> VPN Server -> VPN Users

	New VPN User	х
Username: Password: Availability:	Yes Save Cancel	

Reference:

Item	Explanation
Username	VPN client login name
Password	VPN client login password
Availability	Yes = Enable this account, No = Disable this account
PPTP

Remember, after enable PPTP VPN server, you need open TCP port 1723 on your Router.

VPN Server	
◯ L2TP ● PPTP ◯ OpenVPN	
Enable: Remote IP: Local IP: Primary DNS: Alternate DNS: Timeout(sec): Authentication Method: Enable mppe128: Debug:	chap pap mschap mschap-v2

Reference:

Item	Explanation
Enable	Enable / Disable PPTP VPN server
Remote IP	Define IP for VPN client
Local IP	Define Gateway IP (normally use router IP)
Primary DNS	Define Primary DNS
Alternate DNS	Define Second DNS
Timeout(sec)	Define VPN connection time out value
Authentication Method	Define authentication method
Enable mppe128	Enable / Disable mppe128
Debug	Enable / Disable debug report. When Enable, report will store in Report -> System Log

L2TP

Remember, after enable L2TP VPN server, you need open UDP port 1701 on your Router.

VPN Server	
L2T	P OpenVPN
Enable: Remote Start IP: Remote End IP: Local IP: Primary DNS: Alternate DNS: Authentication Method: Debug:	chap pap Save Cancel

Item	Explanation
Enable	Enable / Disable L2TP VPN server
Remote Start IP	Define first IP for L2TP IP pool
Remote End IP	Define last IP for L2TP IP pool
Local IP	Define Gateway IP (normally use router IP)
Primary DNS	Define Primary DNS
Alternate DNS	Define Second DNS
Authentication Method	Define authentication method
Debug	Enable / Disable debug report. When Enable, report will store in Report -> System Log

OpenVPN

Remember, after enable OpenVPN server, you need open UDP port 1194 on your Router.

When the mode is OpenVPN server, click **Network Settings** -> **VPN Server**

VPN Server		
	◎ L2TP ◎ PPTP ● OpenVF	N
Enable: Certificate: Port: Protocol: Device Node: Compress Lzo: TLS-Server: Remote Network: Route: Client-to-Client:	None 1194 UDP TUN Save Cancel	Create Delete

Reference:

Item	Explanation
Enable	Enable / Disable OpenVPN server
Certificate	Press Create to build certificate, Press Delete to remove certificate which store in M200
Port	Default OpenVPN port is 1194
Protocol	OpenVPN packet transfer method, default is UDP
Device Node	Connect method TUN (Layer 2), TAP (Layer 3)
Compress Lzo	Compress packet
TLS-Server	Enable / Disable OpenVPN server TLS
Remote Network	Define Remote network
Route	Define Route
Client-to-Client	Enable clients can access each other

After setup OpenVPN server, you need download OpenVPN client certificate and install on you OpenVPN client.

Click VPN Server -> OpenVPN Certificate Download -> New Certificate

New Certificate	х
Certificate Name:	-
Create Cancel	

Reference:

Item	Explanation
Certificate Name	Define certificate name

VPN Client

SPIDEX IP PBX supports four kinds of VPN Clients: L2TP, PPTP, OpenVPN and N2N.

Click Network Settings -> VPN Client

PPTP

Setup PPTP client.

VPN Client	
U2TP 🖲	PPTP OpenVPN N2N
Enable: Enable 40/128-bit encryptic Server Address: Username: Password: Default Gateway:	on for MPPE:

Item	Explanation
Enable	Enable / Disable PPTPVPN server

Enable 40/128-bit encryption for MPPE	Enable / Disable 40/128-bit encryption for MMPE
Server Address	Input PPTP IP address
Username	Input PPTP username (Login name)
Password	Input PPTP login password
Default gateway	Enable / Disable default gateway

L2TP

Setup L2TP client

VPN Client		
● L2TP ○	PPTP OpenVPN N2N	
Enable: Server Address: Username: Password: Default Gateway:	Save Cancel	

Reference:

Item	Explanation
Enable	Enable / Disable L2TPVPN server
Server Address	Input L2TP IP address
Username	Input L2TP username (Login name)
Password	Input L2TP login password
Default gateway	Enable / Disable default gateway

OpenVPN

Setup OpenVPN client

VPN Client				
◯ L2TP ◯ PPTP ◉ OpenVPN ◯ N2N				
Enable: Server Address: Port: Protocol: Device Node: Compress Lzo: Default Gateway:	UDP V TUN V			
CA Certificate	None	Upload	Delete]
Client Certificate	None	Upload	Delete]
Client Key	None	Upload	Delete	
	Save Cancel			

Reference:

Item	Explanation
Enable	Enable / Disable OpenVPN server
Server Address	Input OpenVPN server IP address
Port	This value need same as OpenVPN server port, default is 1194
Protocol	This value need same as OpenVPN server, default is UDP
Device Node	This value need same as OpenVPN server, default is TUN
Compress Lzo	This value need same as OpenVPN server, default is uncheck
Default Gateway	Enable / Disable default gateway
CA Certificate	Press Upload to add CA certificate which created by OpenVPN server
Client Certificate	Press Upload to add client certificate which created by OpenVPN server
Client Key	Press Upload to add client key which created by OpenVPN server

N2N

<TODO>: Insert description text here... And don't forget to add keyword for this topic

DDNS Settings

After setting DDNS (Dynamic Domain Network Server), SIPDEX IP PBX settings will be visited remotely.

Click Network Settings -> DDNS Settings

DDNS Settings	
Enable: DDNS Se Usernan Passwo Domain:	rver: e: d: Save Cancel
Status:Disabled	

Item	Explanation
Enable	Enable / Disable DDNS
DDNS Server	Choose DDNS Server
Username	Input DDNS username
Password	Input DDNS password
Domain	Input DDNS domain

SNMPV2 Settings

SNMP (Simple Network Management Protocol) is used for remote management.

Click Network Settings -> SNMPv2 Settings

SNMPv2 Settings

Read Only		
	Enable: RO Community: RO Network:	public /
Read and Write		
	Enable: RW Community: RW Network:	private /

Item	Explanation
Enable	Enable / Disable Read Only of SNMP or Read and Write SNMP
RO Community	Define the name of RO Community of SNMP
RO Network	Define network of RO
RW Community	Define the name of RW community of SNMP
RW Network	Define network of RW

TR069

TR069 is used for remote management

TR069 Settings

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

Item	Explanation
Enable	Enable/Disabled TR069 functionEnable/Disabled TR069 function
CPE to ACS URL	Set the CPE to ACS URL. This parameter MUST be in the form of a valid HTTP URL
ACS Authentication Mode	Select the ACS Authentication Mode for CPE.
ACS Username	Set the ACS Username. The username used to authenticate the CPE when making a connection to the ACS.
ACS Password:	Set the ACS Password. The password used to authenticate the CPE when making a connecting to the ACS.
CPE Inform Interval (sec)	The duration in seconds of the interval for which the CPE MUST attempt to connect with the ACS and send the inform.
ACS to CPE URL	Set the ACS to CPE URL. This parameter MUST be in the form of a valid HTTP

Sipdex

Trouble Shootings

You can ping or traceroute other network devices through SIPDEX IP PBX and track network routing by command "Traceroute" .

Click Network Settings -> Troubleshooting

 Ping
 Traceroute

 Ping
 192.168.101.2
 Packets: 4
 Run Stop

 PING 192.168.101.2 (192.168.101.2): 56 data bytes
 64 bytes from 192.168.101.2: seq=0 ttl=64 time=7.783 ms
 64 bytes from 192.168.101.2: seq=1 ttl=64 time=2.426 ms

 64 bytes from 192.168.101.2: seq=2 ttl=64 time=2.022 ms
 64 bytes from 192.168.101.2: seq=3 ttl=64 time=1.616 ms

 ---- 192.168.101.2 ping statistics --- 4 packets transmitted, 4 packets received, 0% packet loss round-trip min/avg/max = 1.616/3.461/7.783 ms

Chapter 11: Security

Iptables Firewall

Iptables is tool used to configure firewall rules. Which sit on top of and use Iptables commands.

Click Security -> Firewall

Firewall	
Command: iptables	Run
Result:	
IP Tables List:	
Chain INPUT (policy ACCEPT)	
target prot opt source	destination
Chain FORWARD (policy ACCEPT) target prot opt source	destination
Chain OUTPUT (policy ACCEPT) target prot opt source	destination

Iptables Command	Explanation
Check iptables list	iptables -L -n
Clear iptables list	iptables -F
Deny an IP 192.168.0.3	iptables -A INPUT -s 192.168.0.3 -j DROP
Deny every IP to access 80 port	iptables -A INPUT -p tcpdport 80 -j DROP
Deny IP 192.168.0.3 to access port 80	iptables -A INPUT -s 192.168.0.3 -p tcpdport 80-j DROP

SIP Allowed Address

Define trusted device to connect M-200 IPPBX

Click Security -> SIP Allowed Address -> Add Allowed IP

	Add Allowed IP	Х
Allowed IP: Subnet Mask:		
	Save Cancel	

Item	Explanation
Allowed IP	Input allowed IP or network segment, e.g.: 192.168.100.1 or 192.168.1.0
Subnet Mask	Define subnet of trust network

Block SIP Register Failed

This function is for Block IP address when the same IP address is going to SIP register too many password failures in the specify period.

Go Advanced -> Options -> Global SIP settings

• Home	Global	Global SIP Settings			
Operator		General	Global Analog Settings	Global SIP Settings	
Basic					
Inbound Control			External IP:		
Advanced		External Host: External Refresh(sec):			
 Options 					
 Voicemail 		Local Network Address: Local Network Address: Local Network Address:			
 SMTP Settings 					

At Inbound SIP Registrations

Inbound SIP Registrations	
	SIP Register Failed times: <u>10</u> Block time(min): <u>30</u>

NOTE:

For this setting when the same IP address use SIP register failed at 10 times it will block the IP address 30 mins.

Permit specific IP for Extensions

Click **Basic** -> **Extensions** -> choose extension which only permit specific IP connect-> **VoIP Settings** -> **Permit IP**

		Edit		х
General				
SIP:	4	IAX2:		
Name:	800	Extension:	800	
Password:	abcd1234	Outbound CID:		
DialPlan:	DialPlan1 🔹	Analog Phone:	None 🔻	
Voicemail				
Enable:	1	Password:	1234	
Delete VMail:		Email(Fax/Voicemail):		
Other Option	15			
Web Manage	r: 🗹 Agent:	Call Waiting:		
Mobility Exter	ision: Mobility	Extension Number:		
VoIP Setting	5			
NAT:	Transpo	rt: UDP 🔻	SRTP:	
DTMF Mode:	RFC2833 🔻	Permit IP:		_
Video Option	S			
Video Call:	H.261	L H.263 H.263+ H	H.264	
Audio Codece	5			
g722 g726 gsm	▲ → ula ← ala	aw 🔺 aw 729		
speex	▼ ≪≪	Ψ		
Disallow	/ed	Allowed		
	Sa	ave Cancel		

Example

Only IP 192.168.100.2 can use Extension 800

VoIP Set	tings	Input 192.168.100.	2/255.255.255.0
NAT:	•	Transport: UDP 🔻	SRTP:
DTMF Mo	de: RFC2833	 Permit IP: 	



Chapter 12: System Settings

Music Settings

By default, System had store 10 Music, let you change Music of Music on hold, Music on Ring back, Music on Queue

Click Advanced -> Music Settings

Music Settings			
	Music Settings	Music Management	
Music On Hold Re	ference		
	Music: [Music 1 🔻	
Music On Ringbac	k Reference		
	Music: [Music 2 🔻	
Music On Queue F	Reference		
	Music: [Music 3 🔻	

Also you can add your own Music, remember custom music must be wav (16bit/8000Hz/Mono), gms, ulaw or alaw format and max file size is 15MB.

Click Advanced -> Music Settings -> Music Management

Music Management

	Music Settings	Music Management	
Music Managemen	ıt		
	Select Music Directo Files:	vry: Music 1 V Load	
Upload Music File			
Select Music Directory: Music 1 ▼ Note: The sound file must be wav(16bit/8000Hz/Mono), gsm, ulaw or alaw! The size is limited in 15MB!. Please choose file to upload: 選擇檔案 未選擇檔案			
	U	pload	

System Options

General

To change the General Options

Go Advanced -> Options -> General

Local Extension Settings		
	Operator Extension: <a href="mailto: Global RingTime Set(sec): <u>30</u> Enable Transfer: Enable Music On Ringback: Record Format: GSM 	

Item	Explanation
Operator Extension	Set extension number for Operator.
Global Ring Time Set	Set Ring time for every extension.
Enable Transfer	Check to enable Transfer.
Enable Music On Ring back	Check to enable Music On Ring back.
Record Format	Set the format for recording files. (GSM/WAV only)

T.38 Fax Pass Through

T.38 Fax Pass Through Support
T.38 Fax (UDPTL) Pass Through: 📃

Item	Explanation
T.38 fax (UDPTL) Passthrough	Enables T.38 fax (UDPTL) passthrough on SIP to SIP calls

Global Analog Settings

Go Advanced -> Options -> Global Analog Settings

Global Analog Settings

	General	Global Analog Settings	Global SIP Settings	
Calle	r ID Detect			
		Caller ID Detection: Caller ID Signaling: Bell-US Caller ID Start: Ring CID Buffer Length: 2500 V	▼ ▼]	
Gene	eral			

Opermode: FCC 🔹	
Tone Zone: China 🔹	
Relax DTMF: 📃	
Send Caller ID After: 1 🔻	
Echo Cancel: 🗹	
Echo Training: <u>no (yes/no/number)</u>	

Item	Explanation		
Caller ID Detection	Enable/Disable Caller ID Detection		
Caller ID Signaling	Select the mode of Caller ID Signaling.		
Caller ID Start	RingCaller ID start before ring.		
CID Buffer Length	Default CID Buffer Length		
Opermode	Set the Opermode for FXO/GSM Ports.		
ToneZone	Select the ToneZone in your country.		
Relax DTMF	Enable/Disable Relax DTMF inspection.		
Echo Cancel	Enable/Disable Echo Cancel		
Echo Training	Set Echo Training (default unit: ms)		
Busy Detection	Enable/Disable Busy Detection.		
Busy Count	Count the Busy Detection. It will be active when enabling		

Global SIP Settings

Global SIP Settings is appropriate for professionals. If anything needs to be modified, please contact our tech-support people.

	General	Global Analo	g Settings	Global SIP Settings
Gene	ral			
		Enable Enable Sta	UDP Port: 5 TCP Port: 5 TLS Port: 5 art RTP Port: 1 and RTP Port: 2	060 060 061 Download CA 0000
De	Max Regist Min Regist efault Incoming/Ou	ration/Subscriptio ration/Subscriptio tgoing Registratio	DTMF Mode: Allow Guest: n Time(sec): <u>3</u> n Time(sec): <u>6</u> n Time(sec): <u>6</u>	Auto ▼ 600_ 0 0

Item	Explanation
UDP Port to bind to	SIP standard port is 5060
TCP Port	Default TCP port is 5060
TLS Port	Default TLS port is 5061
Start RTP Port	RTP port range
End RTP Port	RTP port range
DTMF Mode	Set default DTMF mode for sending DTMF, support auto,
Max	Maximum duration (in seconds) of incoming
Registration/Subscription	
Min	Minimum duration (in seconds) of
Registration/Subscription	
Default Incoming/Outgoing	Default duration (in seconds) of incoming/outgoing

NAT Support	
External IP: External Host: External Refresh(sec): Local Network Address:	

Item	Explanation					
External IP	Address that we're going to put in outbound SIP					
External Host	Alternatively, you can specify an external host, and Asterisk will perform					
	DNS queries periodically. Not recommended for production environments!					
	Use external IP instead					
External Refresh	How often to refresh external host if used. You may					
Local Network Address	192.168.0.0/255.255.0.0' : All RFC 1918 addresses are local networks,					
	'10.0.0.0/255.0.0.0' : Also RFC1918, '172.16.0.0/12' : Another RFC1918 with					
	CIDR notation,'169.254.0.0/255.255.0.0' : Zero conf local network					

ype of Service	
	TOS for Signalling packets: 📃 🔽
	TOS for RTP audio packets: 🛛 ef 🛛 🐱
	TOS for RTP video packets: 🛛 🔽
	Enable Relaxed DTMF: 🗹
	RTP TimeOut:
	RTP HoldTimeOut:
	Trust Remote Party ID: 📃
	Send Remote Party ID: 📃
	Generate In-Band Ringing: 📃 🔽
	Add 'user=phone' to URI: 🔲
	Send Compact SIP Headers: 📃

Item	Explanation
TOS for Signaling packets	Sets Type of Service for SIP packets
TOS for RTP audio packets	Sets Type of Service for RTP audio packets
TOS for RTP video packets	Sets Type of Service for RTP video packets
Enable Relaxed DTMF	Relax DTMF handling
RTP Time Out	Terminate call if 60 seconds of no RTP activity when we're not on hold
RTP Hold Time Out	Terminate call if 300 seconds of no RTP activity when we're on hold (must be > RTP time out)
Trust Remote Party ID	If Remote-Party-ID should be trusted
Send Remote Party ID	If Remote-Party-ID should be sent
Generate In-Band Ringing	If we should generate in-band ringing always, use 'never' to never use in-band signaling, even in cases where some buggy devices might not render it. Default: never
Add 'user=phone' to URI	If checked, 'user=phone' is added to URI that contains a valid phone number
Send Compact SIP Headers	Send compact sip headers

Settings of SSH / FTP / HTTP Port

You can enable SSH, FTP service on M-200 or change Web GUI management port.

Click Security -> Service

Service Settings

ervice Settings
Enable SSH: Port:22 Enable FTP: Port:21 HTTP Port: 9999
Save Cancel

USB External Storage

External Storage for store the Voice log and Call Detail.

NOTE:

Before connect your disk to M-200 IPPBX Make sure your USB Storage in FAT32.

Step to connect USB Storage

- 1. Unplug the power supply.
- 2. Plug the USB Disk to USB port.



- 3. Connect the power supply.
- 4. Login in to the M-200 IPPBX
- If connection success In Home -> System Info will show your capacity Home

System Info				
Network				
Ethernet	IP: 192.168	3.1.100 M	AC: 68:69:2E	:04:0B:81
Storage				
Disk	Total:	3.0G	Used:	177.3M
Ext Disk	Total:	1.8T	Used:	8.0M

Backup and Restore

Backup system can decrease the loss when system failure.

Click System -> Backup -> Take a Backup

Backup	В	а	С	k	u	p
--------	---	---	---	---	---	---

		Backup	Upload Bad	kup File	
List of E	Backups		Take a Back	up	
N	ame		Date	C	ptions
1 ba	ckup_2014jun(09_160405	Jun 09, 2014	Restor	e Delete 💟

Download backup file from SIPDEX PBX

Click 🞽 can download backup file

💿 Save As				x
	200 system backup	• \$	Search M200 system backup	٩
File <u>n</u> ame:	backup_2014jun09_1604052014jun09			•
Save as <u>t</u> ype:	TAR archive			-
• Browse Folders		(<u>S</u> ave Cancel	

* Don't change file name.

Upload backup file to SIPDEX IP PBX

Click System -> Backup -> Upload Backup File -> choose backup file -> Upload

Upload Backup File



Reset & Reboot

In this session, you can reboot system or restore system to factory state.

Click System -> Reset & Reboot

Reset & Reboot

Factory D	efaults
War	ning: Restore factory settings, will lost all configuration data on the system!
	Factory Defaults
Reboot	
	Warning: Rebooting the system will terminate all active calls!
	Reboot

Reference:

Item	Explanation
Factory Defaults	Reset whole system to default factory state (All setting will be cleared)
Reboot	Reboot system

Upgrade

A software image upgrade can be necessary for these reasons:

- •You want to implement new features in your IPPBX that are available in the later software release.
- •You want to install a new module card that the current software version does not support.
- ●A known bug has affected your IPPBX. The later software release resolves the bug.

Click System -> Upgrade

Upgrade

Upgrade System Package						
WEB Upgrade OTFTP Upgrade						
Restore Default Set: Please choose file to upload: <mark>選擇檔案</mark> 未選擇檔案						
Upload						

Reference:

Item	Explanation
WEB Upgrade	Through WEB GUI to upgrade SIPDEX IPPBX system
TFTP Upgrade	Through TFTP Server to upgrade SIPDEX IPPBX system
Restore Default Set	If checked, after upgrade success system will be restore to factory default state

Reset Button

To reset the IP address to the default IP address "192.168.0.100" (ETH) or reset the login & password to default value, press the reset button on the panel for **more than 6 seconds**. After the device is rebooted

Button	Action	Description
Reset	Press less than 6 sec	System reboot.
	Press over 6 sec	Reset to Factory Default

* Please be reminded to reset to factory default. Uploaded music setting (on hold music) and backup file will not be removed.



Chapter 13: Reporting

Register Status

On Register Status, you can find which SIP, IAX2, SIP trunks, IAX2 Trunks have been registered.

Click Report -> Register Status

Register Status 🌣

	SIP Use	rs Status		IAX2 Use	ers Status	5	5IP Trur	nks S	itatus		IAX2 Tr	unks Status
SIF	Ousers Statu	15:										
Res	ponse: Fol	lows										
Pri	vilege: Co	mmand										
Nam	e/username			Host			Dyn	Ford	cerport	ACL	Port	Status
800	/800			192.168.	100.3		D	Ν			5060	OK (7 ms)
801				(Unspeci	fied)		D	Ν			0	UNKNOWN
802				(Unspeci	fied)		D	Ν			0	UNKNOWN
803				(Unspeci	fied)		D	Ν			0	UNKNOWN
804				(Unspeci	fied)		D	Ν			0	UNKNOWN
805				(Unspeci	fied)		D	Ν			0	UNKNOWN
806				(Unspeci	fied)		D	Ν			0	UNKNOWN
807				(Unspeci	fied)		D	Ν			0	UNKNOWN
808				(Unspeci	fied)		D	Ν			0	UNKNOWN
809				(Unspeci	fied)		D	Ν			0	UNKNOWN
10	sip peers	[Monitored:	1	online,	9 offline	Unmoni	tored:	0 0	online,	0 o	ffline]	
E	ND COMMAND											

Record List

When enable **Call Recording** (for detail please read Chapter 8 Recording on Specified Extension) function, system will be record specific extension when Inbound call or outgoing call.

Click Report -> Record List

Call	Record	ding					
		Call Recording	One Touch Reco	rding			
Exte	Extension: 801 🔻 Delete						
Star	t Date	e: Jun 🔻 🛚 🔻	2014 T End Date:	Jun 🔻 9 🔻 2014	 Filter 		
List	of Re	cording Files	Delete Selected				
		Caller ID	Destination ID	Date	Options		
	1	800	801	2014/06/09 17:17:43	Delete 💟		
	2	801	802	2014/06/09 17:19:51	Delete 💟		

Item	Explanation
Delete (near Extension)	Remove all specific extension call record.
M	Download Record data.
Delete (under column Options)	Delete specific call record.

Call Logs

You can search all or specific extensions call logs is the session.

Click Report -> Call Logs

Call Logs

End Date: Jun V 9 V 2014 V Download Delete Call Start Caller ID Destination ID Account Code Duration(sec) Disposition	Start Date:	Jun 🔻 9 🔻 2014 🔻	Field: Caller ID	•	Filter
Call Start Caller ID Destination ID Account Code Duration(sec) Disposition	End Date:	Jun ▼ 9 ▼ 2014 ▼		Download	Delete
	Call Start	Caller ID	Destination ID Account Co	ode Duration(sec) D	isposition

Reference:

Item	Explanation
Start Date / End Date	Set searching date between Start date and End date
Field	Choose search method, by caller ID, by destination ID or by Account code
Download	Export search result
Delete	Delete all call logs record

Example:

I want to list call log between Jun 8 2014 and Jun 9 2014

1) Start Date set Jun 8 2014 and End Date set Jun 9 2014

2) Click Filter

Call Logs

Start Date: End Date:	Jun ▼ 8 ▼ 2014 Jun ▼ 9 ▼ 2014	▼ Fielo	d: Caller ID Downloa	Filter ad Delete
Call Start	Caller ID	Destination ID	Account Code Duration(sec)	Disposition
2014-06-09 17:05:45	800 <800> 800 <800>	801 801	0	NO ANSWER

System Logs

Export IP PBX logs such as System logs, PBX log, PBX debug and Access log

Click **Report** -> **System Logs** -> check which log(s) you want to export -> Press **Save**

System Logs

System Logs							
		Enable Sy Enable PE	vstem Log: 3X Debug Lo	₽ g: ₽	Enable PBX Log: 🕑 Enable Access Log: 🗹		
				Save Cancel			
List of Logs IIII Download Selected Delete Selected							
		Name	Туре	Options			
	1	debug.log		Debug Log	Delete	Download	
	2	login201406.lo	g	Login Log	Delete	Download	
	3	pbx20140609.	log	PBX Log	Delete	Download	
	4	sys20140609.	log	System Log	Delete	Download	

Operator Panel

Click **Operator**

Operator 🗘															
		۲	Idle		🔴 Rin	ging	•	Extensions InUse	0	Но	ld	•	UnAvail	able	
	•	800 800(SIP)		۲	801 801(SIP))	•	802 802(SIP)			803 803(SIP)		۲	804 804(SIP)	
	۲	805 805(SIP)		۲	806 806(SIP))	•	807 807(SIP)		۲	808 808(SIP)		۲	809 809(SIP)	
Total:10				Online:2					Current Active: 0						
								VoIP Trunks							
		Status		Trunk M	Name	Туре		Username			Hostname/	IP/P	ort	Reacha	ability
No <i>VoIP Trunk</i> defined. You can <mark>click here</mark> to create Trunk.															

Item	Explanation
Idle	This extension is standby.
Ringing	This extension has incoming call.
InUse	This extension is using
😐 Hold	This extension is using Hold function.
UnAvailable	This extension has not registered.