

User's Manual



Internet Telephony PBX

System

IPX-2500



www.PLANET.com.tw



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CE mark Warning

This is a class B device, in a domestic environment; this product may cause radio interference, in which case the user may be required to take adequate measures.



Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.

2. Increase the separation between the equipment and receiver.

3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

4. Consult the dealer or an experienced radio technician for help.

FCC Caution:

To assure continued compliance (example-use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the Following two conditions: (1) This device may not cause harmful interference, and (2) this Device must accept any interference received, including interference that may cause undesired operation.

R&TTE Compliance Statement

This equipment complies with all the requirements of DIRECTIVE 1999/5/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL OF 9 March 1999 on radio equipment and telecommunication terminal Equipment and the mutual recognition of their conformity (R&TTE) The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8, 2000.



WEEE Caution



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the

crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

Customer Service

For information on customer service and support for the Gigabit SSL VPN Security Router, please refer to the following Website URL: http://www.planet.com.tw

Before contacting customer service, please take a moment to gather the following information:

- Internet Telephony PBX System serial number and MAC address
- Any error messages that displayed when the problem occurred
- Any software running when the problem occurred
- Steps you took to resolve the problem on your own

Revision

User's Manual for PLANET Internet Telephony PBX System Model: IPX-2500 Rev: 1.0 (Dec, 2013)



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Chapter 1 Introduction

Ntuitive, Ease-of-Use IP PBX Machine Management

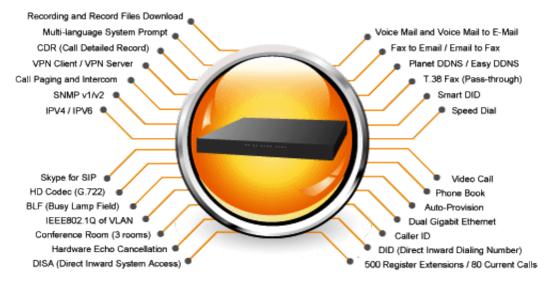
PLANET IPX-2500 IP PBX telephony system is SIP based and optimized for the small and medium business in daily communications. The IPX-2500 is able to accept **500 user registrations**, and easy to manage a full voice over IP system with the convenience and cost advantages.

Leading Enterprises and Workgroup users to High-Speed Networking Generation

With the increasing popularity of desktops and laptops built with Gigabit network Interface, and wide application of shared Database Device and Multi-Media Center day by day, IPX-2500 equipped with **Dual Gigabit** RJ-45 ports (10/100/1000Mbps) (**WAN / LAN**) provides advanced voice and data communications features businesses need to stay productive and responsive.

Off-net Calling Capability, Call Restriction, Call Access Control

The IPX-2500 integrates up to 8 calls via the IPX-21FO (4 FXO), IPX-21SL (2 FXO + 2 FXS) and IPX-21GS (4 GSM) module to become a feature-rich PBX system that supports seamless communications between existing PSTN calls, analog, IP phones and SIP-based endpoints.



Replaces old PBX directly without requiring any new wiring to be put in

Cost-effective, easy-to-install and simple-to-use, the IPX-2500 converts standard telephones to IP-based networks. It enables the service providers and enterprises to offer users traditional and enhanced telephony communication services via the existing broadband connection to the Internet or corporation network.



With the IPX-2500, home users and companies are able to save the installation cost and extend their past investments in telephones, conferences and speakerphones. The IPX-2500 can be the bridge between traditional analog systems and IP network with an extremely affordable investment.

Distributed VoIP Network Infrastructure

For the new generation communication age, the IPX-2500 supports IPv6 and VPN (client / server) connection to provide users with more flexible and advantage communication products. With PLANET DDNS function, the IPX-2500 also helps users to apply and remember the login information easier. Moreover, its multiple language features helps user to quickly and friendly manage the system.

Standard Compliance

Compliant with the Session Initiation Protocol 2.0 (RFC 3261), the IPX-2500 is able to broadly interoperate with equipment provided by VoIP infrastructure providers, thus enabling them to provide their customers with better multi-media exchange services.



Compliant with standard SIP RFC 3261

Green IP Office

The Fax to Email / Email to Fax service by the IPX-2500 allows users to transfer / receive faxes directly to / from your email inbox as file attachments. It's an easy and confidential way of receiving, storing and forwarding important Fax documents, thus creating a paperless or green office.





Green Office (Fax to Email / Email to Fax)

Full Security with VPN Support

The IPX-2500 VPN securely and cost-effectively connects geographically disparate offices of an organization, creating one cohesive virtual network. The IPX-2500 VPN technology is also used by ordinary Internet users to connect to proxy servers for the purpose of protecting one's identity. It includes VPN server and client function that can support users full security login.



1.1 Features

System Highlights

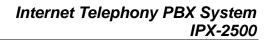
- 80 concurrent calls and up to 500 registers
- Dual Gigabit Ethernet (WAN / LAN)
- HD voice codec G.722 for perfect voice quality
- Fax to Email / Email to Fax for Green Office
- Voicemail to Email for not missing any important message
- Paging and intercom function strengthens work efficiency
- Built-in SIP Proxy Server following RFC 3261
- Multiple Language of GUI for international business
- Web based Control Panel for easy configuration and management of the system
- Hardware Echo Cancellation module for great and smooth communication
- Support VPN Client / Server function.
- Supports maximum 8 ports FXO / FXS / GSM (on 2 slots)

Codec and Protocol

- 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 and Security Features

- DDNS Client (PLANET DDNS, Easy DDNS, DynDNS, Zone Edit, No IP)
- DHCP Server / SNMP v1 / v2
- IEEE 802.1Q of VLAN
- Supports IPv6 in addition to IPv4
- Manual Configuration of Static Route Table
- Trouble Shooting (Ping, Traceroute)
- VPN Client (Supports N2N / L2TP / PPTP / OpenVPN)
- VPN Server (Supports PPTP / L2TP / OpenVPN Server)
- Refuse SIP Register DoS
- Refuse Abort Invite Dos
- Refuse SSH Login DoS
- Firewall / SRTP





PBX Features

- Black List
- BLF (Busy Lamp Field)
- CDR (Call Detailed Record)
- Conference Room (3 rooms)
- DID (Direct Inward Dialing Number)
- DISA (Direct Inward System Access)
- DND / Feature Codes / Flash Operation Panel
- Follow Me / Auto-Provision
- IVR (Interactive Voice Responses)
- Multi-language System Prompt
- Multiple Language of GUI
- Phone Book / PIN Set
- Record Files Download
- Ring Group / SIP Trunk
- Skype for SIP / Smart DID / System Log
- T.38 Fax (Pass-through) / Time based rule
- Virtual Fax / Voicemail & Voice Mail to E-Mail

Call Features

- Call Back / Call Forward / Call Group
- Call Hold / Call Paging and Intercom
- Call Park / Call Pickup / Call Queue
- Call Record / Call Route / Blind Transfer
- Attend Transfer / Call Waiting
- Caller ID / Dial by Name
- Customized IVR / on hold music / Transfer
- Three-way Conference / Video Call



1.2 Package Contents

Thank you for purchasing PLANET Internet Telephony PBX system, IPX-2500. 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 Internet Telephony PBX system and carefully unpack it. The box should contain the following items:

- Internet Telephony PBX System Unit x 1
- Quick Installation Guide x 1
- User's Manual CD x 1
- Power Cord x 1
- RJ-45 x 1
- Bracket x 2

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

1.3 Physical Specifications

Dimensions

Dimensions:	310 (L) x 500 (W) x 90 (H)mm
Net Weight:	3.3kg (without package)

Front Panel

	• PWR	• sys	• war	N LAP	4	•	- SLO 3	2	•	• 4	— SLO • 3	1	D/GSM 5 Iging	Internet Telephony PBX System
IPX-2500														

Rear Panel





LED definitions

Front Panel LED	State	Descriptions
PWR	On	PBX Power ON
F VVIX	Off	PBX Power OFF
	On	Enabling system.
SYS	Flashing	System is working
	Off	System is off
WAN/LAN	Flashing	PBX network connection established
WAN/LAN	Off	Waiting for network connection
	On	Red
FXO / GSM	Flashing	Ringing
	Off	Waiting for connection
	On	Green
FXS	Flashing	Ringing
	Off	Waiting for connection

Physical interfaces description

1	Reset	The reset button, when pressed, resets the IP PBX without the need to unplug the power cord.
2	Power	AC 100~240V, 50 / 60Hz, 1.5A max
3	WAN / LAN	The WAN / LAN port supports auto negotiating Gigabit Ethernet 10/100/1000 Base-TX networks. This port allows your IP PBX to be connected to an Internet Access device, e.g. router, cable modem, ADSL modem, through a CAT.5 twisted pair Ethernet cable.
4	Audio	The Audio / USB are reserved for the factory / production line
5	USB	usage; it is not applicable for regular application.
6	Slots 1 / Slots 2	 2 external slots with compliance FXO / FXS / GSM module. FXO module is connects to PBX or CO line with RJ-11 (Write) analog line. FXO port was connected to the extension port of a PBX or directly connected to a PSTN line of carrier. FXS module is connects to Phone with RJ-11 (Write) analog line. FXS port was connected to your telephone sets, FAX, or Trunk Line of PBX. GSM module is connects to Global System for Mobile



Communications (GSM) with SIM Card.



Supporting 2 slots, user can buy expansion module like IPX-21FO (4 FXO), IPX-21SL (2 FXO + 2 FXS) or IPX-21GS (4 GSM) for extending port service.

1.4 Specifications

Product	IPX-2500 Internet Telephony PBX system (500 SIP Users registrations)
Hardware	
WAN	1 x 10 / 100 / 1000 Mbps RJ-45 port
LAN	1 x 10 / 100 / 1000 Mbps RJ-45 port
2 Slot	Supports maximum 8 ports (FXS / FXO / GSM)
USB	Future Feature
Audio	Future Feature
VGA	VGA Interface
Protocols and Standard	
Standard	SIP 2.0 (RFC3261), IAX2
Protocols	RFC 793 TCP RFC 826 ARP RFC 1034, 1035 DNS RFC 1631 NAT RFC 2068 HTTP RFC 2131 DHCP RFC 2516 PPPoE RFC 3261, RFC 3311, RFC 3515 RFC 3265, RFC 3892, RFC 3361 RFC 3842, RFC 3389, RFC 3489 RFC 3428, RFC 2327, RFC 2833 RFC 2976, RFC 3263
Voice 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
Fax over IP	T.38 Fax (Pass-through) Note: T.38 support is dependent on fax machine, SIP provider and network / transport resilience
Voice Processing	DTMF detection and generation In-Band and RFC 2833, SIP INFO
Protocols	SIP 2.0 (RFC-3261), TCP/IP, UDP / RTP / RTCP, HTTP, ICMP, ARP, DNS, DHCP, NTP/SNTP, PPP, PPPoE
Internet Sharing	
Network Features	DDNS Client (Planet DDNS and Easy DDNS), DHCP Server / SNMP v1/v2 IEEE802.1Q of VLAN IP Assignment (PPPoE / DHCP / Static) IPv4 / IPv6 Manual Configuration of Static Route Table



Internet Telephony PBX System IPX-2500

	IPX-2500
	Trouble Shooting (Ping, Traceroute) VPN Client (Support N2N / L2TP/PPTP/OpenVPN) VPN Server (PPTP/L2TP/OpenVPN Server)
Security Features	Refuse SIP Register DoS Refuse Abort Invite Dos Refuse SSH Login DoS Firewall / SRTP
Features	
PBX Features	Black List BLF (Busy Lamp Field) CDR (Call Detailed Record) Conference Room (3 rooms) DID (Direct Inward Dialing Number) DISA (Direct Inward System Access) DND / Feature Codes / Flash Operation Panel Follow Me / Auto-Provision IVR (Interactive Voice Responses) Multi-language System Prompt Multiple Language of GUI Phone Book / PIN Set Record Files Download Ring Group / SIP Trunk Skype for SIP / Smart DID / System Log T.38 Fax (Pass-through) / Time based Rule Virtual Fax / Voicemail &Voice Mail to E-mail
Call Features	Call Back / Call Forward / Call Group Call Hold / Call Paging and Intercom Call Park / Call Pickup / Call Queue Call Record / Call Route / Blind Transfer Attend Transfer / Call Waiting / Caller ID / Dial by Name Customized IVR / on hold music / Transfer Three-way Conference / Video Call
System Capacity	
System Capacity	80 Concurrent Call Legs Up to 500 IP Phone Registers/Extensions Recording (GSM / default): 2,500,000 mins minutes; Wav: 210,000 mins Voicemail (GSM / default): 2,500,000 mins minutes; Wav: 210,000 mins
Network and Configuration	n
Access Mode	Static IP, PPPoE, DHCP
LED Indications	SYS: 1, LNK / Off WAN: 1, LNK / Off LAN: 1, LNK / Off PWR: 1, LNK / Off FXO / GSM: Red FXS: Green
Dimensions (W x D x H)	310 × 500 × 90 mm
Operating Environment	-10~45 degrees C, 10~80% humidity
Power Requirements	AC 100~240V, 50 / 60Hz, 1.5A max.
EMC/EMI	CE, FCC Class B, RoHS



Chapter 2 Installation Procedure

2.1 Web Login

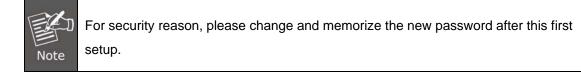
- **Step 1.** Connect a computer to an LAN port on the IPX-2500. Your PC must set up to the same domain of 192.168.0.X as that of the IPX-2500.
- **Step 2.** Start a web browser. To use the user interface, you need a PC with Internet Explorer (version 6 and higher), Firefox, or Safari (for Mac).
- Step 3. Enter the default IP address of the IPX-2500: 192.168.0.1 in the URL address box.
- **Step 4.** Enter the default user name **admin** and the default password **admin**, and then click Login to enter Web-based user interface.

(Default IP)

Default WAN IP: **172.16.0.1** Default LAN IP: **192.168.0.1** Default User Name: **admin** Default Password: **admin**

Internet Telephony PBX System
Username:
Password:

Figure 2-1. Login page of the IPX-2500





2.2 Configuring the Network Setting

Step 1. Go to Network Settings → **Network**

• Home
 Operator
Basic
Inbound Control
Advanced
Network Settings
Network
 Static Routing
 VPN Server
▶ VPN Client
DHCP Server
• DDNS Settings
 SNMPv2 Settings
 Troubleshooting

Network & Country Button

Network

	IPv4 Setti	ngs	IPv	6 Settings	N	/LAN Settings	
WAN Port	: Setup						
		Subni G Prima	et Mask: ateway:	n: Static <u>192.168.1.198</u> <u>255.255.255.0</u> <u>192.168.1.254</u> <u>192.168.1.254</u>	_		
LAN Port	Setup						
_	IP Address: IP AddressV1: IP AddressV2:		.10.100	Subnet N Subnet Mas Subnet Mas	kV1:	255.255.255.0	
			Save	Cancel			
		N	otwork 9	Sotting page			

Network Setting page



Step 2. Edit your WAN 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.

WAN Port Setup	
IP Assig IP Address: Subnet Mask: Gateway: Primary DNS: Alternate DNS:	19 Static 8
LAN Port Setup	
IP Address: 192.168.10.100 IP AddressV1: IP AddressV2:	Subnet Mask: <u>255.255.255.0</u> Subnet MaskV1: Subnet MaskV2:

Selection of IP Connection Type



Chapter 3 Basic Configuration

3.1 Preparation before Operation

What kind of IP phone can be used with the IPX-2500 IP PBX?

• Our IPX-2500 is based on SIP 2.0 (RFC 3261); any IP phone model based on the same protocol can work with the IPX-2500.

3.2 Before Making a Call

3.2.1 System Information

(Default IP)

Default WAN IP: **172.16.0.1** Default LAN IP: **192.168.0.1** Default User Name: **admin** Default Password: **admin**

	nternet Tele	phony PBX System	
Username:			
Password:			
Language:	English	~	
		Login	



1. To login to the IPX-2500, your PC must use the same domain as the eth0 IP address of the IPX-2500.

- For security reason, please modify the user name and password after you login.
 You can modify it on this page: "System"---"Management"
- 3. Every Time after saving the change, please press the "Activate Changes" to



make modification effective.

If user name and password are right, this following page will be displayed:

PLANE	T Internet Telephony PBX System (1924-2500)	
Hatworking & Communica		Logout
• Home	Home Φ	Move the mouse over a field to see tooltips
 Operator 	System Info	
Basic	Network	
Inbound Control	WAN IP: 192.168.1.198 MAC: 00:30:4F:72:C6:A4	
Advanced	LAN IP: 192.168.0.1 MAC: 00:70:6E:72:C6:A4	
Network Settings	Storage Disk Total: 421G Used: 2.5G	
Security	Slots Info	
Report	SLOT 1	
System		
	FXO FXO FXO FXO GSM GSM GSM GSM	
	Device Info	
	Model No.: IPX-2500 System Version: 1.0.5	
	Current Time: 12/11/2013 09:57 Run Time: 7 min 0	

1	Network	ETH0 IP and MAC will be displayed
2	Storage	Total storage and used storage will be displayed
3	Slots Info	Channel information will be based on the product model
4	Device Info	Product Model and System Version will be displayed

1. If FXO is connected, the slot color and the front panel LED will be red and steady
red, respectively.
2. If FXS is connected, the slot color and the front panel LED will be green and
steady green, respectively.

Commonly Used Button

On the home page, besides the system info, there are other function buttons as shown below:

1	Logout	Logout the Web panel	
2	Activate Change	Activate the changes for your current configuration	



System Menu

System Menu includes the following sub menu:

1	Home	Display device information
2	Operator	Extension / Trunk / Channel Status
3	Basic	Basic configuration on extension, trunks, etc
4	Inbound Control	Configuration of Inbound Route, IVR and Black List, etc
5	Advanced	Configuration of extension's default information,
		Conference Call, Call Transfer, Function Key, etc.
6	Network Configuration of Routing, Network, VPN, DHCP and other	
Settings related network parameters		related network parameters
7	Security	Configuration of Firewall, SSH, FTP.
8	Report	Record List, Call Logs and System Logs.
9	System	Time Settings, Management, Back Up and Upgrade, etc.



3.2.2 Operator

• Home	Operator 🍄		Extensions		
	Current Active: 0	😑 Idle 🛛 😑 Ringin		Hold 🔍 UnAvailable	
Basic	800	901	a 802	882	e 804
Inbound Control	800(SIP)	801(SIP)	802(SIP)	🖤 803(SIP)	804(SIP)
Advanced	805 805(SIP)	806 806(SIP)	807 807(SIP)	808 808(SIP)	809 809(SIP)
Network Settings					
Security	Status	Trunk Name Type	VoIP Trunks Username	Hostname/IP/Port	Reachability
Report			No VoIP Trunk defined	l.	
System		rou c	an <mark>click here</mark> to create	Trurik,	
			FXO/GSM Ports		
	Status	Signal Strength	Туре	Port	BLF Label
	Disconnected		FXO	1	Channel1
	Disconnected		FXO	2	Channel2
	OK		FXS	3	
	OK		FXS	4	
	Disconnected		FXO	5	Channel5
	Disconnected		FXO	6	Channel6
	Disconnected		FXO	7	Channel7
	Disconnecceu				

Display all the Extension, VoIP Trunk and Slot information.

About extension:

1	۲	Idle
2	۲	Ringing
3	۲	In use
4	3	Hold
5	۲	Unavailable



3.2.3 Basic Configuration

Configure Extensions

Planet IP PBX supports SIP / IAX2 and analog extension; configure extension on this page:

[Basic] ---- [Extensions]

Extensions						
	Extensions		Upload/	Download E:	tensions	
Extension:	Search St	now Al				
New Liser Ba	tch Add Users Del	oto So	locted 11	orc		
		000 00		5015		
Extensions						
🗌 Name	Extension	Port	Protocol	DialPlan	Outbound CID	Options
1 800	800		SIP	DialPlan1		Edit
						Edit
						Edit
						Edit
						Edit
						Edit
- / 000						Edit
						Edit
						Edit
	Extension:	Extension: Search SI New User Batch Add Users Del Extensions Del Extensions 0 1 800 2 801 3 802 4 803 5 804 6 805 7 806 8 807 9 808	Extensions Extension: Search Show Al New User Batch Add Users Delete Se Extensions Delete Se Delete Se Name Extension Port 1 800 800 2 801 801 3 802 802 4 803 803 5 804 804 6 805 805 7 806 806 9 808 808	Extensions Upload/ Extension: Search Show All New User Batch Add Users Delete Selected Users Extensions Delete Selected Users Delete Selected Users Name Extension Port Protocol 1 800 2 801 800 3 802 802 4 803 803 5 804 804 5 804 806 7 806 806 7 806 807 9 808 808	Extensions Upload/Download Extension: Extension: Search New User Batch Add Users Delete Selected Users Extensions Name Extension Name Extension 1 800 2 801 3 802 802 SIP DialPlan1 3 803 4 803 804 5 804 805 7 806 807 807 9 808	Extensions Upload/Download Extensions Extension: Search Show All New User Batch Add Users Delete Selected Users Extensions

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

		New		Х
General				
SIP:	~	IAX2:		
Name:	810	Extension:	810	
Password:	RE95snvaH@	Outbound CID:		
DialPlan:	DialPlan1 🛛 💌	Analog Phone:	None 💌	
Voicemail				_
Voicemail:	 Image: A start of the start of	VM Password:	1234	
Delete VMail:		Email(Fax/Voicemail):		
Other Option	15			_
Web Manager: 🗹 Agent: 🗌 Call Waiting: 🗹 Allow Being Spied: 🗌 Pickup Group: 🛛 💙 Mobility Extension: 🗌 Mobility Extension Number:				
VoIP Setting	s			
NAT: 🗹	Transpoi	rt: UDP 💌	SRTP:	
DTMF Mode:	RFC2833 💌	Permit IP:		
Video Option	S			_
Video Call:				
□H.261 □H.2	263 🗆 H.263+ 🗆 H.2	264		
Audio Codece	5			_
🗹 alaw 🗹 ulaw 🔲 G.722 🗹 G.729 🔲 G.726 🔤 GSM 🔲 Speex				
	Sa	ave Cancel		



Extension Settings

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	Same password as voicemail. (4-16 digits, e.g.123456)
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	Extension user's mail box, which is used for receiving fax or
(Fax / Voicemail)	voicemail (you need to open the function to fax to email / voicemail),
	e.g. <u>Tom@gmail.com</u>
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	Check this option to allow being spied.
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 computer permitted IP to visit this IP PBX, e.g.192.168.1.77or



Note

Internet Telephony PBX System IPX-2500

	192.168.10.0/255.255.255.0. Computer with other IPs is not allowed
	to visit this IP PBX.
Audio Codec	Select what audio codec you need to use.

1. There are few default extensions which number started with "8XX", you can add
or delete extension by your requirement

- 2. Maximum extensions: 100.
 - For security reason the default password is random character or number e.g. BB%ChH64rI, and every time when you reset to default system, it will randomly have a new password again

Upload / Download Extensions

Click [Upload/Download Extensions] to add extensions as shown below:

▶ Home	Upload/Download Extensions				
 Operator 	Extensions Upload/Download Extensions				
Basic					
Extensions	Upload Extensions				
Trunks	Please choose file to upload: Browse				
 Outbound Routes 					
Inbound Control	Upload				
Advanced					
Network Settings	Download Extensions Template				
Security					
Report	Extensions Template				
System	Right Click here to Save as Template File (.csv)				
	Right Click here to Save as Template File (.txt)				
	Download Extensions(.csv)				
	Download Extensions				

Download the extension template from the 【Download Extensions Templet】, add extension information based on the template format and save. Select the extension file to upload from 【Upload Extensions】 Download current extension information from 【Download Extensions (.csv)】

3.2.4 Time-based Rules

Please set time rule for working time and after-working time, and deal with inbound calls based on this time rule.



Please set from this page: [Time-based Rule] --- [New Time Rule] :

Edit	×			
Rule Name: <u>TimeRule</u>				
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 Conditions	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.



3.3 Outbound Call

3.3.1 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 1	Trunks	FXO/GSM Trunks	
Basic					
Extensions	List of Trunks		N	aw VoIP Trunk	
Trunks	Provider Name	Туре	Hostname/IP	Username	Options
Outbound Routes					
Inbound Control	No VoIP Trunk defined	t.			
Advanced	Please click on 'New '	/oIP Trun	d' button		
Network Settings	to add a frunk				
Security					
Report					
System					

Planet IP PBX supports 2 kinds of trunks: VoIP Trunks and FXO/ FXS Trunks.

VoIP Trunks

1.Click 【VoIP Trunk】-> 【New VoIP Trunk】:

N	ew VoIP Trunk	X		
Description: Protocol: S Host: Maximum Channels*: O Prefix: Caller ID: Without Authentication Username:	IP 💙 			
Authuser:				
Password:				
Domain: From User:	Insecure: port,invite Qualify(sec): 2			
DID Number: DTMF Mode: RFC2833	Transport: UDP 💙 NAT: SRTP:			
Auto Fax Detection:	🖌 Language: Default 🛛 💌			
Audio Codecs alaw ulaw G.722 G.729 G.726 GSM Speex Video Codes H.261 H.263 H.263+ H.264				
LIH.201 LIH.203 LIH.203	Save Cancel			



Internet Telephony PBX System IPX-2500

Item	Explanation
Description	Define the VoIP(figure or character).
Protocol	Select 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.
	Note: This function must be supported by local provider.
Without	If you don't need the Authentication when connecting the IP PBX,
Authentication	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.

You can configure the Analog / GSM line through PLANET IP PBX. The same analog line can't be used in multiple trunks. If you don't have available analog / GSM trunk, you can't set up trunk.

2) FXO / GSM Trunk

Click [FXO / GSM Trunk] -> [New FXO / GSM Trunk] :

New FXO/GSM Trunk					х
D	escription:				
Li	-	хо: □з [sм:	4		
P	refix:				
		Advan	ced Options		
C	Call Method:	Order	~		
В	usy Detection:	Yes 🗸	Busy Count	t: <u>3</u>	
I	nput Volume:	40% 🗸	Output Volume	e: 40% 🗸	
C	Call Progress:	No 🗸	Progress Zone	e: US 🗸	
B	usy Pattern:		Language	: Default	~
А	nswer on Polar	ity Switch:	No 🗸		
Н	langup on Pola	rity Switch:	No 🗸		
А	uto Fax Detecti	on: 🗌			
		Save	Cancel		



Internet Telephony PBX System IPX-2500

Item	Explanation
Description	Define the description for this trunk (figure or character).
Lines	Available 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.

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.

3.3.2 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.

Please configure on this page: 【Basic】->【Outbound Routes】

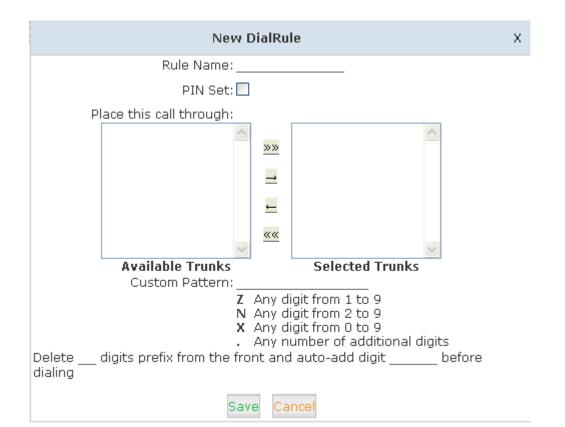
• Home	DialPlans	Move the mouse over a field to see tooltips
 Operator 	DialPlans DialRules	
Basic		
Extensions	List of DialPlans New DialPlan	
• Trunks	Default DialPlan Name Rules Options	
Outbound Routes	Extensions, Spy, Conference, Ring I DialPlan1 Groups, IVR, Call Queues, Paging and Edit Delete	
Inbound Control	Intercom, Directory, DISA	
Advanced		
Network Settings		
Security		
Report		
System		

On this page, user can configure the basic match pattern of the outbound routes and create different dial plans. Please configure by clicking [Add a Dial Rule]

New DialPlan				
DialPlan Name: <u>DialPlan2</u> Include External Calling Rules No Dial Rules defined. You can click here to create a Dial Rule.	Include Internal Calling Rules ♥Extensions ♥Spy ♥Conference ♥Ring Groups ♥IVR ♥Call Queues ♥Paging and Intercom ♥DISA			



User can create dial rule for dial plan on this page:



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	Select a trunk for this dial rule		
through			
Custom Pattern	N any figure from 2 to 9		
	Z any figure from 1 to 9		
	X any figure from 0 to 9		
	One figure 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		



3.4 Inbound Call

3.4.1 Inbound Routes

When a call is made from outside, you want to forward this call to an extension or IVR. This Chapter will introduce you how to deal with the inbound calls. Please configure it on this page: [Inbound Routes]

▶ Home	General						
 Operator 	General	Port DIDs	Number DIDs	DOD Settings			
Basic							
Inbound Control	From Analog Chan	nels					
Inbound Routes							
→ IVR	Distinctive Ring) Tone:					
IVR Prompts	Destination:	Goto IVR	💌 working time	*			
Call Queues							
• Ring Groups	From VoIP Channe	Ja					
• Black List	From VolP Clidine	915					
• Time Based Rules							
Advanced	Distinctive Ring						
Network Settings	Destination:	Goto IVR	💌 🛛 working time	¥			
Security							
Report		Sa	ave Cancel				
System							

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 outbound line (FXO / GSM, 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, call queue, conference or IVR, please configure it here: Click [Port DIDs] -> [New Port DIDs] :



Internet Telephony PBX System IPX-2500

	New Po	rt DID	×
Port: Destination:	Goto Extension	Label:	
	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,
	call queue, conference, or IVR).

Number DIDs

If user wants to make an outbound line (VoIP Trunk) access to the specified extension / queue / conference / IVR, please use this feature:

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, 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.
	If matched, the call will access to the defined destination.
Destination	Outbound calls will access directly to this destination (extension user,
	call queue, conference, or IVR).

3.4.2 IVR

IVR will improve office efficiency based on your requirement.
Please configure on this page 【Inbound Control】 -> 【IVR】:

				anges Cancelled! Phony PBX S	ystem (19xe250
• Home	IVR	1			
Operator	List	of IVRs		New IVR	
Basic		Extensio	n Name	Dial other Exte	nsions Options
Inbound Control	1	610	working time	Yes	Edit Delete
 Inbound Routes 	2	611	closed time	No	Edit Delete
▶ IVR					
 IVR Prompts 					
Call Queues					
• Ring Groups					
• Black List					
• Time Based Rules					



Click [New IVR] to creates a new IVR:

		New IVR	:
IVR S	Settings		
Nan	ne:	Extension: 612	
Weld	ome Messa	ige	
Repe	se Select: at Loops: ial other Ext ress Event s		<u>ts</u>
Key	Action	-	
П	Disabled	~	~
1	Disabled	~	
2	Disabled	~	
З	Disabled	~	
4	Disabled	~	
5	Disabled	~	
6	Disabled	~	
7	Disabled	~	
8	Disabled	~	
9	Disabled	~	
	Disabled	~	
*			
* #	Disabled	×	

Item	Explanation
Name	Set a name for the IVR
Extension	If you want to listen to the IVR by dialing extension, please
	input an extension Number.
Please Select	Select IVR audio file, please configure in this page:
	【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.



3.4.3 IVR Prompts

• Home	IVR F	rompt	ts Ø					
 Operator 			IVR Prompts	Uploa	d IVR Promp	ots		
Basic								
Inbound Control	List	of Pro	ompts 🌼	New Voi	ce Delete S	elect	ed	
 Inbound Routes 			Name		Opt	ions		
→ IVR		1	Test.gsm	R	ecord Again	Play	Delete	8
IVR Prompts		2	closed.gsm	R	ecord Again	Play	Delete	M
Call Queues		З	welcome.gsm	R	ecord Again	Play	Delete	×
• Ring Groups								
 Black List 								
• Time Based Rules								

Record or play IVR music from extension. Please configure on this page: [IVR Prompts]

Click [IVR Prompts] ---- [New Voice] to create new IVR prompt:

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
recording:	prompt. Click 【Record】, this extension will ring, and then you
	can pick up the phone and record.



If you want to hear the prompt, please click [Play] :

Play record voice	х
Extension used for playing: 800 🗸	
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	I IVR Prompts	
Inbound Routes	Note: The sc		(16bit/8000Hz/Single), gsm, ul s limited in 15MB!	law or alaw!
→ IVR		The size i	S IIIIIICEU IN IOMB!	
IVR Prompts	Plea	ase choose file to uplo	ad: Browse	
Call Queues			Upload	
 Ring Groups 				
 Black List 				
• Time Based Rules				
Advanced				
Network Settings				

Note	Uploading customized audio file must be in the wav, gsm, ulaw, alaw format, and size must be less than 15MB.



3.4.4 Ring Groups

Ring Group is a collection of extensions. When a call to a ring group is made, all extensions in this ring group will ring in different ways based on their different configurations. If ring time exceeds a defined time, the call will be directed to IVR or others based on your configuration.

There isn't any data in the factory default 【Ring Groups】, please configure it here. Click 【Inbound Control】-> 【Ring Groups】-> 【New Ring Group】:

	New Ri	ng Group			×
Name:	Strategy:	RingAll	*		
	~	« «	800(SIP) 801(SIP)		^
		<u>م</u>	802(SIP)	802	
		,	803(SIP) 804(SIP)		=
			805(SIP)	805	
	~	<u>»»</u>	806(SIP) 807(SIP)		~
Ring Group Membe	ers		· · · · ·	able Channe	els
	Label:_				
Extension	for this ring	g group: <u>6</u>	<u>540 </u>		
Ring (each/all) fo	r lasting tir	ne(sec):2	20		
If not answered					
Ogoto Extension					
Ogoto Voicemail					
OGoto Ring Group					
Ogoto IVR					
OHangup					
			1		
	Save	Cancel			

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.



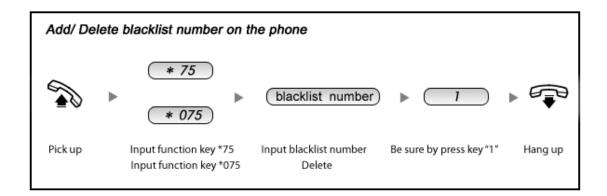
3.5 Black List

If some numbers need to be blocked, you can use this functionality, please configure it here:

Click [Inbound Control] -> [Blacklist] -> [New Blacklist]

	New Bl	acklist	х
Blacklist	Number		
	Save	Cancel	

Input caller's number in the blank, then this caller's number will be blocked when the call comes again. Meanwhile, extension user can add or delete the blacklisted number by function key on the phone. Please operate according to 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.

3.5.1 Pick up Call

If an extension user is away from his/her desk, other extension users can pick up the call by function key on the phone. Please check the following diagram to learn more:



When Exte	nsion is ringing			
	►	* 8 Input function key *8	►	Guz
Pick up	Input function ke	y ** and define another extension	to pick up	Connected to speak

Reference Parameters and Explanation of Pickup Calls

Item	Explanation
*8	Input function key *8 to pick up the registered extension which is in
	the ring at random. This can be defined in 【Feature Codes】
**	Input function key ** and define another extension to pick up. This
	can be defined in 【Feature Codes】.

3.6 On The Call

3.6.1 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:

On the call		
G(12 ► 2 ► 700 ►		(#701) ► G((2)
Input *2 to attend transfer On the call Input 700 for packing number	Hang up Pick up by another extension	Input #701 Continue the conversation



Reference Parameters and Explanation of Call Park:

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

3.6.2 Call Transfer

If an incoming call is for your colleague, you can transfer the call directly to your colleague or transfer the call after agreeing by your colleague. Please check the diagram below to learn more:

On the o	call
	(# + Extension Number)
22	Input # and extension number Hang up Extension user speaking
Russ	•
ŰW.C	
	Extension user agree to get the call Extension user speaking the one who forwarded the call will hang up
	(*2 + Extension Number) Rus
	@("C *
	Input * to hang up the call and speak to extension user
On the call	Input *2 and extension number Speak to extension user

Reference Parameters and Explanation of Transfer:

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	Default is 15 seconds. Define in [Feature Codes]
attended transfer	



3.6.3 Conference

If you want to create a conference room for some extension users or with external lines, you can input conference room number 900, input conference room password 1234 (Admin's password is 2345), then enter the conference room. This IPX-2500 supports 3 conference rooms. Please configure it on this page [Conference] :

PLANE Hetworking & Communicat	Internet Telephony PBX System @2X42500
▶ Home	Conference Default
Operator Basic	Conference Default Conference 2 Conference 3
Inbound Control	Conference Number
Advanced	Room Extension: <u>900</u>
◆ Options	
 Voicemail 	Conference Password
SMTP Settings	Guest Password: 1234
• Email to Fax	Administrator Password: <u>2345</u>
Conference	in the second se
 Music Settings 	Conference Options
→ DISA	Conference DialPlan DialPlan1 💌
 Follow Me 	 Play hold music for first caller Enable caller menu
• Paging and Intercom	Announce callers
▶ PIN Sets	Record conference Ouiet Mode
Call Recording	
• Speed Dial	
• Smart DID	Save Cancel
 Callback 	
• Phone Book	
→ Feature Codes	
Phone Provisioning	

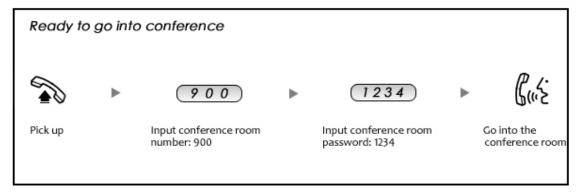
Item	Explanation
Conference Number	The number that users call in order to access the conference
	room; the default number is "900".
Conference Password	Password for users to access the conference, e.g."1234".
Administrator Password	Password for administrator to access the conference.
Conference DialPlan	Use this dial plan to invite other participants.
Play hold music for the	Check this option to play the hold music for the first participant in
first participant	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 dial pad.
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:

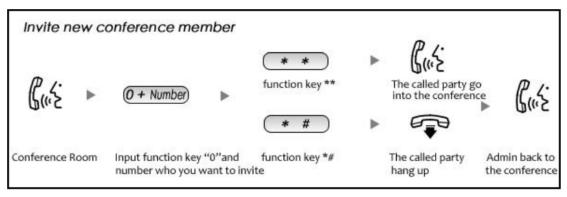
Go to conference:



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:





3.7 Settings before leaving office

3.7.1 Follow me

If you don't want to miss any call, please configure this function as shown below: Click [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 Optio	ns			
Web Manage	er: 🔽 Agent:	Cal	l Waiting: 🗌	
Allow Being S		Group: 1 🗸		
Mobility Exte		Extension Number:		
VoIP Setting	-			
NAT: 🗸	Transpo	rt: UDP 🗸	SRTP:	
DTMF Mode: RFC2833 V Permit IP:				
Video Optio	ns			
Video Call:				
H.261 H.263 H.263+ H.264				
Audio Codecs				
🗹 alaw 🗹 ulaw 🗌 G.722 🗹 G.729 🗌 G.726 🗌 GSM 🗌 Speex				
Save Cancel				

Check [Web Manager] and [Save]



Then login to the Extension Web Panel:

	ternet Telephony PBX System
	Extension account
Username:	800
Password:	Voice mail Password
Language:	English
	Login

PLANET Internet Telephony PBX System

• Record List	Call Recording			
 Voicemail List 		Call Recording	One Touch Recording	
 Call Forward 				
▶ Follow Me	Start Date: Dec 🚿	11 💟 2013 💟	End Date: Dec 💟 11 👻	2013 💙 Filter
▶ Settings	List of Recording	Files		
 Send Fax 	Caller ID	Destination ID	Date	Options

Click 【Call Forward】:

Forward Settings	
Bu	ways isy Answer
	Save Cancel

Reference

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



Or used the Follow me feature.

▶ Record List	Follow Me	Follow-Me List: List number to ring, one per
 Voicemail List 	Follow Me Settings	line.
 Call Forward Itoliox: Ma Settings Send Fax 	Enable:⊠ Ring lasting for <u>20_</u> seconds Follow Me List: 806,30 808,20	format:number,ring time eg: 806,20 86671485,30 22199528,30
	Save Cancel	

Select an extension, set the ring duration, and add the numbers in the Follow Me List; [Save] and [Activate].

List Format: Extension Number, Ring Duration

- E.g.: 806,30
 - 808,20

806 rings, after 30 seconds, the call is going to 808

[Follow Me Option]

Follow Me Options
Playback the incoming status message prior to starting the follow-me step(sec).
\square Record the caller's name so it can be announced to the callee on each step.
Playback the unreachable status message if we've run out of all steps or the callee was set not to be reachable.
Save



3.7.2 Voice Mail

If you don't want to configure "Follow Me", you can record the message of incoming call, and email the message to your defined mailbox.

Click [Extension] --- [Extension Settings]

		Edit		×
Name:		Extension:	804	
Password:	804	Outbound CID:		
VM Password	804	E-mail:		
Dial Plan:	DialPlan1 🔽			
Analog Phone:	No Analog lines de	tected.		
VoiceMail	 Image: A start of the start of	Can Reinvite		
SIP:	 Image: A start of the start of	IAX2:		
T.38 Fax		Agent		
NAT	✓	Pickup Group 🛛	•	
Delete VMail		DTMF Mode: RF	FC2833 🕶	
Video Call:		Permit IP		
Auto Provision	1			
Manufacturer:	🔽 Mai			
Audio Codecs Configure				
🗹alaw 🗹ulaw 🗹G.729 🔲G.726 🔤GSM 🔲 Speex				
Video Codecs Configure				
H.261 H.263 H.263+ H.264				
	Save	Cancel		

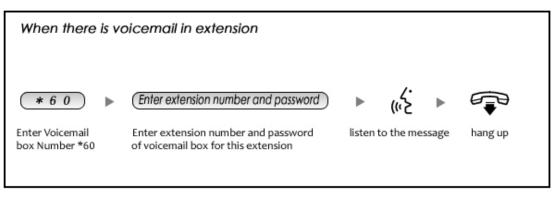
Please enable [Voice mail] before configuration, and configure [VM Password] and [Email]. If there is no answer for the incoming call and when the default ring time is over, the system will play: "Please leave your message and press the "#" key. Then voicemail will be sent to the specified mailbox by email.



Leave a message:



Listen to the message





- 1. If you would like to use this function, you must write the correct email address in "extension settings".
- 2. You need to configure SMTP and Email model in [Voice Mail] . Please check the details in the following chapter [Voice Mail]



3.8 Call Center (Call Queues)

3.8.1 Create Agent

Click [Basic] -> [Extension] -> [Edit] the extension you want to configure:

		Edit	x		
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			Waiting:		
Allow Being Spied: Pickup Group: 1 V Mobility Extension: Mobility Extension Number:					
VoIP Setting					
NAT: Transport: UDP SRTP:					
DTMF Mode: RFC2833 V Permit IP:					
Video Options					
Video Call:					
□H.261 □H.263 □H.263+ □H.264					
Audio Codecs					
🗹 alaw 🗹 ulaw 🗌 G.722 🗹 G.729 🗌 G.726 🗌 GSM 🗌 Speex					
	Save Cancel				

Step1: Check [Agent] and [Save]

Step2: 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: <u>630</u>	Label:		
→ IVR	rang ocracog) i random	*		
IVR Prompts		have any users defined		
Call Queues	c	l <mark>ick here</mark> to manage user	s.	
• Ring Groups				
• Black List				
• Time Based Rules				
Advanced				
Network Settings	Queue Options:	Announceme		
Security	Agent TimeOut(sec): <u>15</u>	Erecuency/a	on Announcements ec);	
Report	Auto Pause Wrap-Up-Time(sec): 10	Announce Ho		
System	Max Wait Time(sec):			
	Max Callers: 8 Join Empty Leave Whe Auto Fill Report Hol	Repeat Frequenceme Repeat Frequenceme If not answe	ered	v



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 rings randomly.	
	RRmemory RoundRobin with Memory, and remember where it's left	
	off in the last ring.	
Agent	Every extension defined as Agent will be listed here. Selected agent	
	will be a member of the current Queue.	

Queue Options:	Announcements:
Agent TimeOut(sec): <u>15</u> Auto Pause Wrap-Up-Time(sec): <u>10</u> Max Wait Time(sec): <u>10</u> Max Callers: <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.
	(Default is 0, which means no limitation.)
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.



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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), it will not be announced when the hold time is
	less than 1 minute.
Repeat	Interval time to play the voice menu for callers. ("0" mean not to play).
Frequency(sec)	
Announcement Prompt	Select a prompt as the Announcements Prompt from the IVR Prompts.



Chapter 4 Advanced

4.1 Options

Options include local extension settings and new extension default settings [General], caller ID setting [Global Analog Setting], and NAT FAX setting [Global SIP Setting].

4.1.1 General

Click [General] to display the dialog as shown below:

	General	Global Analog Settings	Global SIP Settings		
Loca	l Extension Settin	gs			
	Operator Extension: <mark><none> </none></mark> Global RingTime Set(sec): <u>30</u> Enable Transfer: Enable Music On Ringback: Record Format: GSM				
Defa	ult Settings for N	ew User			
	SIP: ✓ IAX2: Ueb Manager: ✓ Call Waiting: ✓ Agent: Voicemail: ✓ Delete VMail: VM Password: <u>1234</u> NAT: ✓ Transport: UDP ✓ SRTP: ✓ Audio Codecs ✓alaw ✓ulaw G.722 ✓G.729 G.726 GSM Speex				
Exte	Extension Preferences				
		onference Extensions <u>900</u> IVR Extensions <u>610</u> Queue Extensions <u>630</u> RingGroup Extensions <u>640</u>	to <u>899</u> to <u>629</u> to <u>639</u> to <u>659</u> to <u>679</u>		

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.



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Record Format	Set the format for recording files. (GSM / WAV only)
Default Settings for New User	Check to enable the default settings.
Extension Preferences	Set the rule for extensions.

4.1.2 Global Analog Settings

Click [Advance] -> [Options] -> [Global Analog Settings]:

	General	Global Analog Settings	Global SIP Settings
Calle	r ID Detect		
		Caller ID Detection: 🗹 Caller ID Signalling: Bell-US Caller ID Start: Ring CID Buffer Length: 2500 🗹	 ▼
Gene	ral		
		Opermode: FCC ToneZone: China Relax DTMF: Send Caller ID After: 1 Echo Cancel: Echo Training: <u>800</u> (ye Busy Detection: Busy Count: 3	v ▼ s/no/number)

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.
	PolarityCaller ID start when polarity reversal starts.
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



Busy Detection.

4.1.3 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	UDP Port: TCP Port:	
		Enable	TLS Port:	5061 Download CA
Start RTP Port:			art RTP Port: nd RTP Port:	
			DTMF Mode:	
Max Registration/Subscription Time(sec):				
Min Registration/Subscription Time(sec): Default Incoming/Outgoing Registration Time(sec):			4 F	

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,		
	RFC2833, inband, info. Default: RFC 2833		
Max Registration/Subscription	Maximum duration (in seconds) of incoming		
Time	registrations/subscriptions is 3600 seconds by default		
Min Registration/Subscription	Minimum duration (in seconds) of		
Time	registrations/subscriptions is 60 seconds by default		
Default Incoming/Outgoing	Default duration (in seconds) of incoming/outgoing		
Registration Time	registration		



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		
	messages if we're behind a NAT		
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		
	specify a local network in the field below		
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		

T.38 Fax (UDPTL) Passthrough: 📃

Item	Explanation	
T.38 fax (UDPTL) Pass through	Enables T.38 fax (UDPTL) pass through on SIP to SIP	
	calls	



Type of S	ervice
-----------	--------

-	
	TOS for Signalling packets: 💽 💌
	TOS for RTP audio packets: 🛛 🛛 🗸
	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		

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

Register TimeOut(sec): _____ Register Attempts: _____



Item	Explanation	
SIP Register Failed Times	Allowed failure time for register attempts.	
Block times	How long will be limited, when you Beyond the number of register failure.	
Register Time Out	Retry registration calls at every 'x' seconds (default 20)	
Register Attempts	Number of registration attempts before we give up; 0 = continue forever	

4.2 VoiceMail

Details configuration on Voice Mail: Voice Mail 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		
	ing Time(sec): r Operator:	30 I
Voice Message Options		
		WAV (16-bit) 100 2 5 4
Playback Options		
	🗹 Say Me 📃 Play En	ssage CallerID ssage Duration velope sers 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.	



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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.	

Email Settings

Email Settings

	General	Email Settings	
Template for Voicemail Emails			
) : <u>New Voicemail fro</u> ? Hello \${VM_NAME	om \${VM_CALLERID} E}, you received a messa {VM_DATE} from,	age lasting
\$ \$ \$ \$ mi \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	VM_DUR}: The du VM_MAILBOX}: Th VM_CALLERID}: T essage VM_MSGNUM}: Th	E Cancel ient's first name and last iration of the voicemail m he recipient's extension he Caller ID of the perso he message number in yo ate and time the message	essage n who left the pur mailbox

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.	



4.3 SMTP Setting

SMTP Settings

SMTP Settings:	
SMTP Server: Port: 25 SSL/TLS: □ ✓Enable SMTP Authent Username: Password: Send Test	
Save Canc	əl

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 your 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	Authentication, and configure the following information.	
User Name	Input user name 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	х
Email Address:	
Send Cancel	

Input the Email and click [Send] to send the test email. Login your Email to check; configuration is successful if you receive the test email; otherwise, it fails. Please check your email settings.



4.4 Email to Fax

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

Click [Advanced] -> [Email to Fax]

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

Check "Enable", input user name, password and IMAP Server(server format: imap.XX.com), select the Dial Plan and then "Save" and "Activate".

Practical Case:

Send a fax to telephone number 86671485: In Dial Plan 1, there is prefix "9" before the telephone number; you need to input the 【Access Code】: 986671485 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: 86671485 ext.515, you need to use the 【Access Code】: 986671485-515 as subject.

4.5 Music Settings

Management for music on hold, music on ring back, music on call queue... Click [Music Settings] to display the dialog as below:



Music Settings:

Music Settings

	Music Settings	Music Management			
Music On Hold Re	Music On Hold Reference				
	Music: [Music 1 💌			
Music On Ringback Reference					
	Music: [Music 2 💌			
Music On Queue Reference					
	Music: [~			

Please define different music files for different music folders.

Music Management:

Music Management

	Music Settings	Music Management	
Music Managemen	t		
	Select Music Directo Files:	ory: Music 1 💌 Load	
Upload Music File			
Select Music Directory: Music 1 V Note: The sound file must be wav(16bit/8000Hz/Single), gsm, ulaw or alaw! The size is limited in 15MB!.			
Ple	ease choose file to uploa	Jpload	

Item	Explanation
Select Music Directory	Load music in the music file.
File	Display music name under the music file. You can delete it.
Select Music Directory	Select the file where you want to save your uploaded music.



Please choose file to upload	Select the music you want to upload. Note: music file must be
	WAV (16bit/8000Hz / Single), GSM, ulaw or alaw, and less
	than 15MB.



The sound file must be **wav** (16bit/8000Hz/Single), **gsm, ulaw or alaw** !! The size is limited in **15MB**

4.6 **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 Set: 🔛 Without PIN	
Record in CDR: 🗖	
Response Timeout(sec): <u>5</u>	
Digit Timeout(sec): <u>3</u>	
Extension for this DISA(Optional):	
Allow Outbound Route Select DialPlan	
Save Cancel	

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	If you want to access DISA by dialing an extension, you can

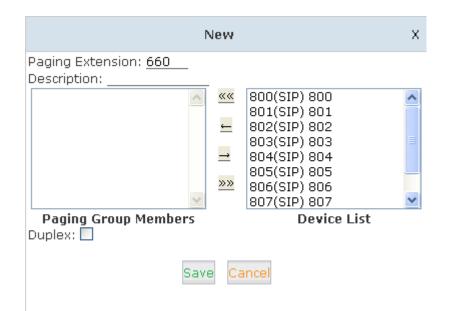


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DISA(Optional)	define an extension number for this DISA.
Select Dial Plan	Select the Dial Plan for this DISA.

4.7 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 support 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.
	Paging is typically one way for announcements only. Checking
Duploy	this will make the paging duplex, allowing all phones in the
Duplex	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), enable Auto Answer
------	--



4.8 PIN Set

Monitor is used for recording the defined extensions.

Click [Monitor] --- [New Monitor] to display the dialog below:

New Monitor	×
Extension:	
Monitoring Time	
Always Monitor: Start Time: 💌 : 💌 End Time: 💌 : 💌 Start Day: 💌 End Day: 💌	
Monitor Settings	
Inbound Record: Outbound Record: Save Cancel	

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

4.9 Call Recording

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

Click [Advanced	】->	[Call Recording]	->	[New Call Recording]	:
-----------------	-----	------------------	----	----------------------	---

New Call Recording	×
Extension:	
Call Recording Time	
Always Recording: Start Time: 💌 : 💌 End Time: 💌 : 💌 Start Day: 💌 End Day: 💌	
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.

4.10 Speed Dial

Please configure as shown below:

Click 【Advanced】-> 【Speed Dial】-> 【New Speed Dial】:

Speed Dial

	Speed Dial	
The pr	refix of speed dial: <u>*99</u> Save Cancel	
Speed Dial List	New Speed Dial	

Speed Dial List	New Speeu Dial	
Source Number	Destination Number	Options
	No Speed Dial defined!	

New Speed Dial	X
Notice:Don't forget to add the outbound dial prefix if you would like to dial an outside number	
Source Number: 00	
Destination Number: 86671485	
Save Cancel	

E.g. prefix is *99, speed number is 00, destination telephone number is 86671485. When dialing *9900, the call is going to 86671485 automatically.



4.11 Smart DID

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

Click [Advanced] -> [Smart DID] :

Smart DID

	Sma	rt DID	
	Enable Save	Cancel	
Smart DID Rules List		New Smart DID Rule	
Pattern Strip Prepend Options			
1 X.			Edit Delete

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

Click [New Smart DID Rule] to display the following diagram:

New Smart DID Rule	×
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".

4.12 Call Back

When user makes calls by the callback number to Planet IP PBX, 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) :



Options

Callback Number Settings

Callback Number

(Callback Number Settings
	Enable: Strip:digits before dialing Prepend:before dialing DialPlan: Save Cancel
List of Callback Number	New Callback Number

Destination

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.

No Callback Number defined!

New Callback Number	×
Callback Number:	
Destination: Goto Extension 🛛 🛛 800(800) 🔽	
Save Cancel	

Input callback number and define the destination.

4.13 Phone Book

When incoming call matches the number in the phone book, the name of the matched number will be displayed. Please configure it as shown below:

Click [Advanced] -> [Phone Book] :

Phon	e Bo	ook	Cn	eate Contact	
Nam	ne: _	Searc	h Show All	Delete Sel	ected
		Name		Phone Number	Options
	1	David	86671485		Edit Delete

Item	Explanation	
Search	Search by name	
Show All	All contacts will be displayed in the following list.	



Click [Create Contact] to see the following diagram:

Create Contact	×
Name: David	
Phone Number: 22199518	
Save Cancel	

Item	Explanation	
Name	Input contact's name. (Letter or figure only).	
Phone Number	Input Phone Number of contact. (IDD Number is available).	

Phone book is for the incoming call to use; if the incoming caller ID matches the number in Phone book, it will display the name defined in Phone book.

For example, Name: David Number: 22199518.

When system receives the call 22199518, the extension answers this call with "David" being displayed.



4.14 Feature Codes

Click [Feature Codes] to display the dialog as shown below. You can define relevant parameter.

Feature Codes Management **Call Parking** Extension to Dial for Parking Calls: 700 Extension Range to Park Calls: 701-720 Call Parking Time(sec): 45 Parking Hints: 📃 Pickup Call Pickup Extension: *8 Pickup Specified Extension: ** Transfer Blind Transfer: # Attended Transfer: *2 Disconnect Call: * Timeout for answer on attended transfer(sec): 15 One Touch Recording One Touch Recording: <u>*1</u> Call Forward Enable Forward All Calls: *71 Disable Forward All Calls: *071 Enable Forward on Busy: 72 Disable Forward on Busy: *072 Enable Forward on No Answer: *73 Disable Forward on No Answer: *073

Item	Explanation		
Extension to Dial for	Define an extension for parking calls.		
Parking Calls			
Extension Range to Park	Define the extension range for parking calls. (e.g. 701-720)		
Calls			
Call Parking Time(sec)	Define the time for parking calls. Planet IP PBX will call the extension		
	again if parking is over time.		
Pickup Extension	Define an extension for pickup.		
Pickup Specified	Pick up the specified extension. Default: Dial**+extension number to		
Extension	pick up the specified extension		
Blind Transfer	Allow unattended or blind transfers. It works like this: While on a		
	conversation with A, you dial the blind transfer key sequence. The		
	system says "Transfer" then gives you a dial tone, while A is on hold.		
	You dial the transferee number (B's number) and A is put through to		
	B immediately. Your line is off. The caller ID displayed to B is exactly		
	the same as the caller ID presented to you.		
Attended Transfer	Allow attended transfer or supervised transfer. It works like this:		
	While on conversation with A, you dial the Attended Transfer key		



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	sequence. The system says "Transfer" then gives you a dial tone,	
	while A is on hold. You dial the transferee number (B's number) and	
	talk with B to introduce the call, then you can hang up and A will be	
	connected with B. In case B does not want to answer the call, he/she	
	simply hangs up and you will be back to your original conversation.	
Disconnect Call	Disconnect the current transfer call (for Attended transfer).	
Timeout for answer on	Set the timeout value	
attended transfer (sec)		
One Touch Recording	Configure the function key for One Touch Recording	
Call Forward	Enable / Disable Call Forward and the settings of function keys for	
	different forward modes.	
Do Not Disturb	Enable / Disable "Do Not Disturb"	
Spy	Configure the function keys for spy modes.	
Blacklist	Add / Delete blacklisted number.	
Voicemail	Configure the function keys for entering voicemail and check	
	extension voicemail.	
Invite Participant	In conference, the administrator can invite people into the	
	conference by dialing "0". After pressing "0", you will get dial tone,	
	and you can dial to invite people. After the call is connected, please	
	press ** to direct the people into the conference, or *# to hang up the	
	current call and return to the conference.	
Create Conference	During the call, you can dial *0 to forward to the conference with the	
	callee.	
Return to conference with	In conference, the administrator can dial "0" to invite people into the	
participant	conference. After pressing "0", you will get dial tone, and you can dial	
	to invite the participant; when the call is connected, dial "**" to return	
	to the conference with invited participant.	
Return to conference	In conference, the administrator can dial "0" to invite people into the	
without participant	conference. After pressing "0", you will get dial tone, and you can dial	
	to invite the participant. When the call is connected, you can dial "*#"	
	to hang up and return the conference yourself.	
Pause Queue Member	Pause the agent, and the agent cannot receive the call.	
Extension		
Unpause Queue Member	Unpause the agent, and the agent can receive the call.	
Extension		
Others	Function key for Intercom / Paging / Directory	



4.15 IP Phone Provision

When you need many IP Phones, please record the MAC, extension number, and user name of each phone according to the format (please take reference of the auto provision script file model for details). Then import the format file. Once the phone is connected to the local network, it will get the extension number and password automatically.

There are two operation methods to fulfill this function. Please see details as shown below:

Enable DHCP service

Click [Network Settings] -> [DHCP Server], enable DHCP Server in the dialog as shown below:

DHCP Server Settings		
	Enable:	V
	Start IP:	192.168.1.101
	End IP:	192.168.1.200
	Subnet Mask:	255.255.255.0
	Gateway:	192.168.1.1
	Primary DNS:	61.139.2.69
	Lease Time(min):	1440
	TFTP Server:	
	Save	Cancel

Then Click [Advanced] -> [Phone Provisioning] -> [New Phone] :

	New Phone			Х
General				
	Enable: 🗹			
	Manufacturer: Plar	net 💌	Type:	VIP-256T/PT 💌
	MAC: 00304f			VIP-256T/PT
Line				VIP361PE VIP-362WT
Line1	Extension:	*	Label:	ICF-1700
				VIP-2020PT VIP-5060PT
	S	ave Canc	el	VIP-3000P1

Enable Phone Provisioning in [Basic], select the IP Phone manufacture, input MAC of the phone, and select the extension for provisioning.



4.16 PnP Settings

Plug and Play function (PnP) is used as Auto-Provisioning for IP Phones. Once it's enabled, the system will make configuration on the specified phone (as long the phone supports PnP) according to the settings in Phone Provisioning page

Plug and Play(PnP) Settings

	Phones Settings	PnP Settings	
Plug and Play(PnP)	Settings		
	Enable: Interface: ✓Custom URL:	WAN V	
	Multicasting Address: Port:	224.0.1.7 5060	
	Save	Cancel	

Item	Explanation
Enable	Enable / Disable PnP function
Interface	Choose a port that PnP works on
Custom URL :	Specify a URL if you need one. Default is download from local PC
Multicasting Address:	Multicasting address that PnP uses, default is 224.0.1.75
Port	Port that PnP uses, default is 5060



Chapter 5 Network Settings

5.1 Network

You can configure the WAN Port, and define the Virtual Interface.

Click [Network Settings] -> [Network] -> [IPv4 Settings]

Network

IPv4 Settings	IPv6 S	ettings	VLAN Settings				
WAN Port Setup							
Su	ubnet Mask: Gateway:	: Static 192.168.1.198 255.255.255.0 192.168.1.254 192.168.1.254	-				
LAN Port Setup							
IP Address: 192.1 IP AddressV1: IP AddressV2:	168.0.1	Subnet Ma Subnet Mask Subnet Mask					
	Save	Cancel					

Reference

Item	Explanation			
IP Assign Static / DHCP/PPOE supported.				
LAN Port Setup Define the virtual interface for WAN Port.				

Click [Network Settings] -> [Network] -> [IPv6 Settings]

IPv4 Settings	IPv6 Settings	VLAN Settings			
Pr	Enable: 🗹 v6 Address: refix Length: Gateway: Primary DNS:				
Alternate DNS:					

IPv6 Reference:

Item	Explanation	
Enable	Enable IPv6, define the IPv6 address, gateway, and DNS.	



Click [Network Settings] -> [Network] -> [VLAN Settings] :

Network

	IPv4 Settings	IPv6 Se	ettings	VLAN Settings	
WAN VLAN 1	l				
		Enable: VLAN ID: IP Address: ubnet Mask:			
WAN VLAN 2	2				
		Enable: VLAN ID: IP Address: ubnet Mask:			
LAN VLAN 1					
		Enable: VLAN ID: IP Address: ubnet Mask:			
LAN VLAN 2					
		Enable: VLAN ID: IP Address: ubnet Mask:			
		Save	Cancel		

VLAN Reference:

Item	Explanation
Enable	Enable VLAN to define the VLAN address and VLAN ID.



5.2 Static Routing

Click [Network Settings] -> [Static Routing] :

Static Routing

	s	tatic Routing	Routing 1	Table	
List of Static Ro	uting		New Static Ro	outing	
Destination	Network	Subnet Mask	Gateway	Interface	Options
No Static Routing		New Stati	c Routing	×	
Please click on ''N to add a Static Ro	Destin	ce: ation Network: t Mask:	WAN 🔽 WAN LAN		
	Gatew	ay:			
		Save	Cancel		

Item	Explanation
Interface	Choice WAN / LAN
Destination	Set destination network for static routing.
Subnet Mask	Set subnet mask of the destination network.
Gateway	Define the gateway accessing the destination network.

Click [Network Settings] -> [Static Routing] -> [Routing Table], and the current routing information will be displayed below:

Routing Table

	Static Routing	Routing	g Table			
Routing Table: Kernel IP routing table Destination Gateway 0.0.0.0 192.168.1 192.168.1.0 0.0.0.0	Genmask .254 0.0.0.0 255.255.255.	UG	Metric O O	Ref O O	0	Iface ETH ETH



5.3 VPN Server

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

Click [Network Settings] -> [VPN Server]:

	VPN Server	VPN Users Management	
VPN Server			
	⊙ L2TP	O PPTP O OpenVPN	
Remote Local IF Primary Alterna	e Start IP: e End IP: ?: DNS: te DNS: tication Method:	Cancel	

Reference:

Item	Explanation			
VPN Server Mode	Three kinds of VPN servers L2TP, PPTP and OpenVPN			
	supported (Only one mode can be enabled simultaneously).			
Enable	Enable / Disable VPN Server			

When the mode is L2TP or PPTP VPN server, click [Network Settings] -> [VPN Server] -> [VPN Users Management]:

VPN Users Management

	VPN Server		VPN Users I		
List of	VPN User	rs	New VPN	Jser	
I	Username	!		Availability	Options
1 te	est			yes	Edit Delete

This page is used for management of VPN user name and password.

When the mode is OpenVPN server, click [Network Settings] -> [VPN Server] -> [OpenVPN Certificate Download]:



	VPN Server	VPN Users Ma	nagement
VPN Server			
	O L2TP	🔿 PPTP 💿 OpenVF	N
Enable: Certificat Port: Protocol: TLS-Serv Remote I Route: Client-to	er: [Network: _ -Client: [▼ None 1194_ UDP ▼ /	Create Delete

Status: L2TP (Disabled)

This page is used for management of OpenVPN certificate file.

5.4 VPN Client

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

Click [Network Settings] -> [VPN Client]:

VPN Client				
○ L2TP				
Enable:	v			
Enable 40/128-bit encryption	for MPPE:			
Server Address:	192.168.100.100			
Username:	admin			
Password:	•••••			
	Save Cancel			

Status:pptp	client	Conr	nect: p	opp1 <>	· /dev/pts/2					
pptp	client	sh:	can't	execute	<pre>'/sbin/ip':</pre>	No	such	file	or	directory
pptp	client	sh:	can't	execute	<pre>'/sbin/ip':</pre>	No	such	file	or	directory

Reference:

Item	Explanation
VPN Client	Four kinds of VPN Clients supported: L2TP, PPTP, OpenVPN and
	N2N (Only one mode can be enabled simultaneously)
Enable	Enable / Disable VPN Client



5.5 DHCP server

Click [Network Settings] -> [DHCP Server]:

DHCP Server

DHCP Server	DHC	P Client List	Static MAC			
DHCP Server Settings						
Int Sta End Sul Gai Prir Lea	able: erface: d IP: d IP: pnet Mask: ceway: nary DNS: ase Time(min): P Server: Save	 ✓ WAN ✓ 192.168.1.101 192.168.1.200 255.255.255.0 192.168.1.1 61.139.2.69 1440 Cancel)			

Click [Network Settings] -> [DHCP Server] -> [DHCP Client List] :

	DHCP	Server	DH	CP Client List	Sta	atic MAC	
DHCP Clien	t List:						
Mac Addres 6c:3e:6d: 00:03:58: 0c:74:c2: 20:c9:d0:	e0:f2:00 45:87:9a 47:71:6d	192.168.1 192.168.1 192.168.1	.101 .102 .103	Host Name iPhone hnteki-iPhone		Expires in expired expired expired expired	a
08:ed:b9: 78:e4:00: 68:a3:c4: 0c:72:2c:	8e:c3:99 ef:5d:8b	192.168.1 192.168.1	.106	DPVYE1J0WCAAC LBSZLACHCIC HBWang MW150R	71	expired 22:10:25 1 days 00 00:00:57	:00:00

This page is used to display DHCP Client address and related information.

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] :



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

5.6 DDNS Settings

After setting DDNS (Dynamic Domain Network Server), Planet IP PBX settings will be visited remotely. Click [Network Settings] -> [DDNS Settings]:

DDNS Settings

DDNS Settings		
Enable: Enable Ea Easy Dom DDNS Serv Username Password: Domain:	ain: pl72c6a4.planetddns.c er: PlanetDDNS.com Dundna and	com

Status:Disabled

Planet supports DDNS provided by Planet DDNS / Dyndns.org / No-ip.com / zoneedit.com.

5.7 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
Save	Cancel



Reference

Item	Explanation
Enable	Enable "Read Only" of SNMP
RO Community	Define the name of RO Community of SNMP
RO Network	Define network of RO

5.8 Troubleshooting

You can ping other network devices through Planet IP PBX and track network routing by command "Traceroute" . Click [Network Settings] -> [Troubleshooting] :

Troubleshooting

	Ping	Traceroute	
Ping <u>192.168.1.254</u> Pa	ackets: <u>4</u>	Run Stop	
PING 192.168.1.254 (19) 64 bytes from 192.168. 64 bytes from 192.168. 64 bytes from 192.168. 64 bytes from 192.168.	1.254: seq=0 1.254: seq=1 1.254: seq=2) ttl=64 time=5.7 L ttl=64 time=12. 2 ttl=64 time=3.6	411 ms 37 ms
192.168.1.254 ping 4 packets transmitted, round-trip min/avg/max	4 packets r	eceived, 0% pack	et loss



Chapter 6 Security

This chapter will introduce you how to configure the Security of PLANET IP PBX.

6.1 Network and Country

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	iptables -A INPUT -p tcpdport 80 -j DROP
80 port	
Deny IP (192.168.0.3)	iptables -A INPUT -s 192.168.0.3 -p tcpdport 80-j DROP
to access port 80	



6.2 Service

【Service】: Settings of SSH / FTP and HTTP Port.

Click [Security] -> [Service] :

Service Settings

Service Settings	
Enable SSH: Port:22 Enable FTP: Port:21 HTTP Port: 80	
Save Cancel	

Enable SSH to login background management system through SSH.

Enable FTP to allow uploading files to system through FTP.



Chapter 7 Report

7.1 Record List

Check recordings of specified extension or conference here, or delete the recording file.

【Record List】:

	Call Recording	Conference	One To	uch Recording	
Extension: Pelete					
Start Date: Aug 👻 20 👻 2013 💌 End Date: Aug 👻 20 👻 2013 🖤 Filter					
List of Recording Files Delete Selected					
	Caller ID	Destination ID	Date	Options	

【Conference】:

	Call Recording	Conference	One Touch Re	ecording	
Start I	Start Date: Aug 👻 20 💙 2013 💙 End Date: Aug 👻 20 👻 2013 💙 Filter				
List of Conference Record Files Delete Selected Delete					
	Conference Room	Date		Options	

[One Touch Recording]

	Call Recording	Conference	One Touch Reco	ording	
Extension: Delete					
Start Date: Aug 💙 20 💙 2013 💙 End Date: Aug 💙 20 💙 2013 💙 Filter					
List of Recording Files Delete Selected					
	Caller ID D	estination ID	Date	Options	

7.2 Call logs

Check call logs by caller ID or callee ID.

Click [Report]	->	Call	Logs】	:
----------------	----	------	-------	---

Call Logs

Start Date:	Apr 💌 23 💌 2013 💌	Field: Caller ID	~	Filter
End Date:	Apr 💙 23 🍸 2013 🌱		Download	Delete
Call Start	Caller ID	Destination ID Account Cod	e Duration(sec)	Disposition





Duration in the call logs is not really charged duration. If you need billing, PSTN must support polarity reversal function, and meanwhile, you must configure relevance parameters of polarity reversal in trunk configuration for Planet IP PBX.

7.3 System logs

Click [Report] -> [System Logs], and you can download/ delete the system logs.

System Logs						
Enable System Log:						
Save Cancel						
List	of Lo	gs 🌵	Download Selected		Delete Se	elected
		Name	Туре		C	Options
	1	login201303.log	Login Log		Delete	Download
	2	login201304.log	Login Log		Delete	Download
	3	pbx20130311.log	PBX Log		Delete	Download
	4	pbx20130313.log	PBX Log		Delete	Download
	5	pbx20130315.log	PBX Log		Delete	Download
	6	pbx20130319.log	PBX Log		Delete	Download
	7	pbx20130320.log	PBX Log		Delete	Download

7.4 Data Storage

When you need mass storage of recording files, voicemails, call logs, etc, you can upload these files to FTP server through FTP Data Storage based on the specified time frequency Click [System] -> [Data Storage] :



	Data Storage	Data Storage Log		
FTP Data Storage				
	L F	ly upload: ge is over:		
Status: Disabled			Upload Now	

Reference

Item	Explanation
Enable	Enable FTP Data Storage.
Server Address	Set FTP server address (IP address or domain).
User Name	User name for login FTP.
Password	Password for login FTP.
Directory	Define a directory used for storage on FTP server.
Automatically upload	Define frequency (by the day) to upload the data.
frequency (by the day)	
Time of automatically	Define the time to upload the data.
upload	
Forcibly upload when the	Forcibly upload data when flash storage is over the
flash storage is over	percentage value.

Check from 【Data Storage Log】:



Click [clear] to clear data storage log.



7.5 Management

[Management] is used to modify password of Planet system, and the settings of system voice.

Click [System] -> [Management] :

Management

Change Password
Password: New Password: Retype New Password: Apply
Set Language
Set Voice Language: English

[Set Language] Choose the voice language you want

Set Language			
Set Voice Language: Save	English English 中交 Français Español Português Italiano		



7.6 Backup

Click [System] -> [Backup]

	Backup	Upload Backt	up File
List	of Backups	Take a Back	up
	Name	Date	Options
1	backup_2013jan09_135847	Jan 09, 2013	Restore Delete 🛛
2	backup_2013jan09_135854	Jan 09, 2013	Restore Delete 🛛
З	backup_2013may16_160601	May 16, 2013	Restore Delete 🛛

Reference:

Item	Explanation
Take a Backup	Take a backup of the current system configuration.
Restore	Restore system to the specified backup configuration.
Delete	Delete specified backup file.

Click the download button "

Click 【Upload Backup File】 to upload the backup file here.



Click [browse] to select the local backup file, and click [Upload] to upload the backup file to system.

7.7 Reset & Reboot

If you need to reset the system to factory default or reboot, please click [System] -> [Reset & Reboot] :



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

Click 【Factory Default】 to reset the system to factory default.

Click [Reboot] to reboot the system.

7.8 Upgrade

7.8.1 WEB Upgrade

Click [System] -> [Upgrade] -> [WEB Upgrade] :

Upgrade System	n Package	
WEB Upgrade	O TFTP Upgrade	
Restore Default Set: □ Please choose file to upload:		Browse
Upload		

Click [Browse] to select the firmware file, and then click [Upload] to upload the selected firmware to system and finish the upgrading automatically.

If check 【Restore Default Set】, the system will clear all the configuration and reset to factory default.



7.8.2 TFTP Upgrade

Click [System] -> [Upgrade] -> [TFTP Upgrade] :

Upgrade System Package	
© WEB Upgrade	
Restore Default Set:	
Enter The Package Name:uImage-md5	_
TFTP Server IP address:	
Start	

Reference:

Item	Explanation
Restore Default Set	System will restore to factory defaults after checking this
	option.
Enter The Package Name	Enter the package name for upgrading.
TFTP Server IP address	Enter your TFTP server IP address.

7.9 Hot Standby

Hot Stanby ——this function is used to backup and share configuration file and regular data on two IPX-2500 units (Master & Slave) each other in local network. In case the system the Master Unit crashes, Slave Unit will automatically start to work in order instead Settings:



▶ Home	Hot Standby				
 Operator 		Hot Standby	Hot S	Standby Log	
Basic					
Inbound Control	Hot Standby Setting	5			
Advanced	Enable	:		2	
Network Settings		andby Mode: Iostname:	Ļ	Master	
Security	Remote	e Hostname:		Slave	
Report	Local IF Local H	ocal IP: ocal Heart Line Port:	7	790	
System	Local P	ort:		788	
 Hot Standby 	Remote Remote	e IP: e Heart Line Port:	7	789	
 Time Settings 	Remote			788	
 Module Settings 	Virtual SYNC N	IP: letwork Rate:	Ē	100Mbps 🔽	
• Data Storage		Fresh Time(sec):	5		
 Management 		e Link Timeout(sec): stator Email:	<u>1</u>	.5	
• Backup			_		
• Reset & Reboot		Save	Cancel		
• Upgrade	Status:	Disabled			

Item	Explanation
Hot Standby Mode:	Set the unit to be Master or Slave (Make sure one unit is
	Master and the other is Slave)
Local Hostname	Hostname of local unit (Make sure it's different on two units)
Remote Hostname	Hostname of remote unit
Local IP	IP address of local unit
Local Heart Line Port:	Heart line port of local unit (Make sure local heart line port of
	local unit is the same
	as remote heart line port of remote unit)
Local Port:	Port of local unit (Default is suggested, and make sure port on
	both units are the same)
Remote IP:	IP address of remote unit
Remote Heart Line Port	Heart line port of remote unit
Remote Port	Port of remote unit
Virtual IP	Virtual IP address (on which IP extensions will be registered)
SYNC Network Rate	Rate of Sync Network (Retain default)
Status Fresh Time(sec):	Fresh rate of status (Retain default)
Remote Link	Timeout for remote link (retain default)
Timeout(sec):	
Administrator Email:	Email address of administrator (In case the device is working
	improperly, notification
	will be sent to this email address)



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I I I
Note

User must configure properly on Master Unit and reboot first, then configure and reboot Slave Unit

Status:

• Home	Hot Standby			
• Operator		Hot Standby	Hot Standby Log	
Basic				
Inbound Control	Hot Standby Settings			
Advanced	Enable:			
Network Settings		ndby Mode: Istname:	Slave 💌 ippbxA	
Security		Hostname:	ippbxB	
Report	Local IP:	: eart Line Port:	<u>192.168.1.121</u> 7790	
System	Local Po	rt:	7788	
 Hot Standby 	Remote Remote	IP: Heart Line Port:	<u>192.168.1.122</u> 7789	
• Time Settings	Remote	Port:	7788	
• Module Settings	Virtual IF SYNC Ne	P: etwork Rate:	192.168.1.252 100Mbps 💙	
• Data Storage	Status F	resh Time(sec):	5	
• Management		Link Timeout(sec): ator Email:	<u>15 </u> davidy@planet.cc	
• Backup				
• Reset & Reboot		Save	Cancel	
• Upgrade	Status:	Connected		
	Status.	COMPLEX COM		

Status: Connected indicates two units are connected successfully

▶ Home	Hot Standby		
 Operator 		Hot Standby	Hot Standby Log
Basic			
Inbound Control	Hot Standby Setting	Js	
Advanced	Enable		
Network Settings		andby Mode: Jostname:	Slave 💌 ippbxA
Security	Remot	e Hostname:	ippbxB
Report	Local I Local F	P: leart Line Port:	<u>192.168.1.121</u> 7790
System	Local F	Port:	7788
 Hot Standby 	Remot Remot	e IP: e Heart Line Port:	<u>192.168.1.122</u> 7789
• Time Settings	Remot	e Port:	7788
• Module Settings	Virtual SYNC N	IP: Jetwork Rate:	192.168.1.252 100Mbps 💙
• Data Storage	Status	Fresh Time(sec):	5
▶ Management		e Link Timeout(sec): stator Email:	<u>15</u> davidy@planet.cc
→ Backup			
▶ Reset & Reboot		Save	Cancel
→ Upgrade	Status:	WFConnection	

Status: WFConnection indicates waiting for connection from the other unit



• Home	Hot Standby			
 Operator 		Hot Standby	Hot St	andby Log
Basic				
Inbound Control	Hot Standby Setting	Is		
Advanced	Enable	:	~	
Network Settings		andby Mode: Iostname:		lave 💌
Security		e Hostname:		pbxA pbxB
Report	Local I	P: leart Line Port:		92.168.1.121 790
System	Local P			788
• Hot Standby	Remot	e IP: e Heart Line Port:		92.168.1.122 789
• Time Settings	Remot	e Port:	77	788
• Module Settings	Virtual SYNC N	IP: Jetwork Rate:		00Mbps 🔽
• Data Storage	Status	Fresh Time(sec):	5	
• Management		e Link Timeout(sec): stator Email:	<u>15</u> da	5 avidy@planet.cc
• Backup			<u></u>	
• Reset & Reboot		Save	Cancel	
▶ Upgrade	Status:	Standålone		

Status: StandAlone indicates offline (which means you need to configure properly and reboot to reconnect

7.10 Time Settings

Time settings for Planet system, the system supports NTP and Manual Time Set.

【NTP】:

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

Reference:

Item	Explanation			
NTP Server	Define the NTP Server. You can input the IP address or			
	domain of this server, whatever it's local or remote. Default			
	server is pool.ntp.org. Be aware that the Planet IP PBX			
	needs to be able to connect to a NTP server to perfect			
	functions.			
Time Zone	Select your time zone so that the system will set time based			
	on the time zone.			



[Manual Time Set]:

Time Settings			
(Ontp (Manual Time Set	
Year	·	(YYYY, eg: 2010)	
Month	:	(MM, eg: 05)	
Day		_(DD, eg: 08)	
Hour		(HH, eg: 09)	
Minute		(MM, eg: 30)	
5	Synchronize wi	th 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.

7.11 Module Settings

Choose module type and make configuration on this page

Module Settings

SLOT 1		
	Module Type: Hardware Echo Cancellation:	FXS/FXO/GSM V
SLOT 2		
	Module Type: Hardware Echo Cancellation:	FXS/FXO/GSM V
	Save Canc	el

Item	Explanation
Module Type	Choose module type
Hardware Echo	Enable/Disable hardware Echo Cancellation (Make sure the
Cancellation	Echo Cancellation module is properly installed before
	enabling this function)

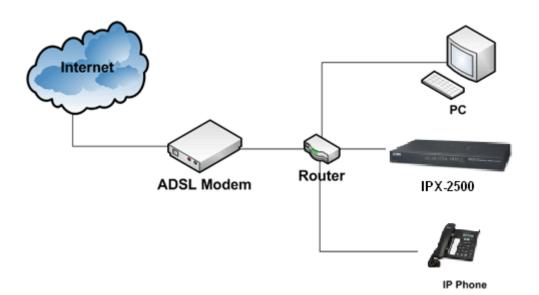


Chapter 8 Operating Instructions

This chapter will introduce you how to use PLANET IP PBX by example.

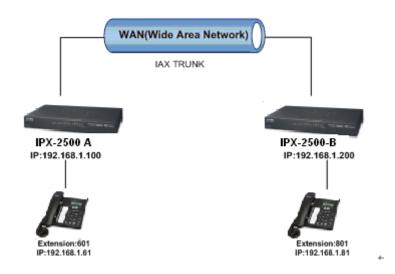
8.1 How to connect the IPX-2500 IP PBX to the Internet

If your office accesses the public network through router, you can put Planet IP PBX behind the router. You should connect the WAN port of the IP PBX to the LAN port of the router.



8.2 How to combine two IPX-2500 IP PBX in a different network

Normally, two sets of the IPX-2500 are located in different places with different IP addresses for Internet access.



For external line configuration, you must use public IP address. Take the following instructions as an example:



Register IPX-2500-B IP to a trunk of IPX-2500-A with authentication.

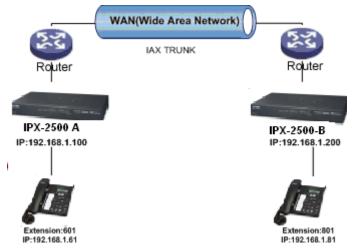
Configuration Rule:

- 1. IP Phone registers on IPX-2500-A as extension 601.
- 1. Another IP Phone registers on U50-B as extension 801.
- 2. IPX-2500-A IP:192.168.1.100.
- 3. IPX-2500-B IP:192.168.1.200.
- 4. Extension format of IPX-2500-A: 6XX.
- 5. Extension format of IPX-2500-B: 8XX
- 6. Create an extension 888 with password 123456 on IPX-2500-B.
- 7. All extensions on IPX-2500-A can call extensions on IPX-2500-B with format 8XX.
- 8. All extensions on IPX-2500-B can call extensions on IPX-2500-A with format 6XX.

For detailed steps, please take chapter 8.2 as reference.

Two sets of IPX-2500 behind router

Sometimes the IPX-2500 doesn't have a public IP address, and you have to configure port mapping for your router.



Step1: Configure the mapping rule of IPX-2500-A on the router.

The IPX-2500-B is connected behind the router, and registers on IPX-2500-A through internet. You need to configure the port mapping of IAX2 port(4569) on the router. Then, all data received from eth0 port of router (192.168.1.100:4569) will be sent to IPX-2500-A

Now, take the web management panel of AND-4100 router as an example. In here both UTP and TCP must open for IP PBX.



Internet Telephony PBX System IPX-2500

Advanced	PORT	FORWARI	DING						
Advanced Wireless									
Port Forwarding		Port Forwarding allows you to direct incoming traffic from the WAN side (identified by protocol and external port) to the internal server with a private IP address on the LAN side. The internal port is required only if the external port needs to be converted to a							
DMZ	different port number used by the server on the LAN side. A maximum of 80 entries can be configured.								
Parental Control						"Apply" to forward t End is not recom			
Filtering Options						al Port End auton			
QoS Configuration									
	C.2000000000								
Firewall Settings	PORT FO	ORWARDI	NG SETUP						
Firewall Settings DNS	PORT F	Server Name	Wan Connection	External Port Start/End	Protocol	Internal Port Start/End	Server IP Address	Schedule Rule	Remote IP
	PORT FO	Server	Wan		Protocol				Remote IP
DNS	PORT FO	Server Name	Wan Connection	Start/End	both	Start/End	Address	Rule	

Step2: IPX-2500 Configuration

Configure the trunk and dial plan on IPX-2500-B, and register IPX-2500-B IP to IPX-2500-A. The configuration is the same as the above, but you have to replace the public IP address with the internal IP:192.168.1.21.

Step3: Configure port mapping rule of IPX-2500-B on the router Configure port mapping of IPX-2500-B on the router according to Step1.

Step4: Connect two sets of the IPX-2500 and make the call Create extension 601 on IPX-2500-A, extension 801 on IPX-2500-B, and create the correct outbound rule.



Public IP must be provided by network provider. It could be dynamic IP address, and easy to change; you can resolve this problem by using DDNS.

8.3 How to resolve the problem about hearing one side only

If the IPX-2500 is behind router, to resolve the problem, please set up IP address as shown below:

Click [Advanced] -> [Option] -> [Global SIP Settings] :

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

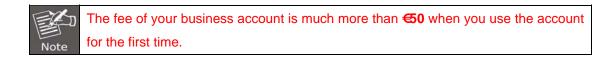


Internet Telephony PBX System IPX-2500

Item	Explanation		
External IP	External IP or domain to replace the device IP		
External Host	External domain to replace the device IP.		
External Refresh(sec)	Refresh time, default is 10 seconds		
Local Network Address	IP address and subnet mask needed to be converted.		
	e.g. 192.168.1.100/255.255.255.0		

8.4 How to use Skype account in IPX-2500

[Answer]:



1. https://login.skype.com

Sign in with the business account.

Create an account or sign in

It only takes a minute or two - then you're ready to call your friends free over Skype, and even talk face-to-face on video.

	Sign in	Create	an accour	nt
Skype Name Planet.com				
Forgotten your Skype Nan Password	ne?			 Quick & Easy Manage your account
••••••• Forgotten your password?	2		·	 Change your settings

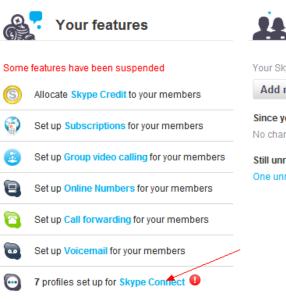
Sign me in

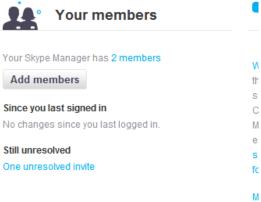
1) When you have signed in, at the end of this page, you will find the **Skype Manager**, Please click it.



	Settings and extras			IS			
	Payment settings		S	Stored payment details and Auto-recharge settings. View de			
	Φ	Skype Mana	ager	Y	ou are the administrator of Planet . Skype Manager · Membe		
	×××	Redeem vo	ucher	F	Redeem your voucher or prepaid card. Redeem		
	ĉ	Skype WiFi		L	earn about Skype WiFi		
David Yao 			Settings a	ind extr	as		
Your Skype Planet.com	Name		Payment :	settings	Stored payment details and Auto-recharge settings. View details		
Profile deta	ils		Currency		Your currency is set to EUR (Euros). Change		
Your email			💠 Skype Ma	nager	You are the administrator of Planet Skype Manager · Member page		
Email settir	igs		📟 Redeem v	oucher	Redeem your voucher or prepaid card. Redeem		
Keep your p	asswo	ord secret.					
	Your Skype Planet.com Profile deta Your email Email settir Your passy Keep your p	David Yao Your Skype Name Planet.com Profile details Your email Email settings Your password @ Keep your password @	Payment se Skype Mana Skype Mana Redeem vol Skype WiFi Skype WiFi Your Skype Name Profile details Your email	■ Payment settings ◆ Skype Manager □ Redeem voucher ○ Skype WiFi ○ Skype WiFi ○ Skype WiFi ○ Skype WiFi ○ Profile details Your Skype Name Planet.com ● Profile details ● Your email ● Email settings ● Your password @ Keep your password secret.	■ Payment settings S ● Skype Manager Y □ Redeem voucher F ○ Skype WiFi L ○ Skype WiFi L ○ Skype WiFi L ✓ Skype WiFi L ✓ Skype WiFi L ✓ Skype WiFi L ✓ Skype Manager Payment settings Your Skype Name Payment settings © Profile details © Currency Your email Skype Manager Email settings Your password @ Keep your password secret. Redeem voucher		

3. Please click the Skype connect







Internet Telephony PBX System IPX-2500

	Subscriptions	Connect your existing SIP-enabled PBX to Skype with Skype Connect. Learn more
	0 members	Some of your SIP Profiles have been suspended because your Skype Manag
8	Group video calling O members	has insufficient credit available to pay for the channel subscription. Buy more credit and the profiles will be reactivated.
	Voicemail O members	
9	Online Numbers O members	Your SIP Profiles
0	Call forwarding O members	Set up a SIP Profile
•	Skype Connect 3 profiles	
		档案2 View profile
		Obernali Denna de la construcción de

4. Create a SIP profile

Create a SIP profile	•	
1 Choose name 2	Set up subscription (3) Au	thentication
Creating a SIP profile is as subscription, and get your a		e a name for your profile, purchase a channel
Choose a profile name		
aaa	0	
For example, "New York offi	ice". You can edit this name later.	
Next Cancel		

Then you can create one sip account, you need to pay \in 4.95 for one channel as monthly rent and you need to input the registration information in our VoIP trunk blank. Then you can register with Skype server. And then you need to assign money for **outgoing calls**, and then you can call out.



aaa	Profile settings		
uuu	Profile name	ааа	
Profile settings	Calling channels	Buy a channel subscription to activate this profile	
Authentication details	Outgoing calls	Set up outgoing calls	
Reports		To make outgoing calls from this SIP Profile you need to add Sk	
« Back to SIP Profile list		You can also set up Auto-recharge so you never run out of cred call. Outbound calls to landlines and mobiles in the US* are ch cents/min. For all other destinations see Skype's standard per rates.	
		Add credit Auto-recharge settings	
	(S € 0.30 Add credit	

Then you can see the sip account information, and please click the **Authentications details**.

aaa	Please choose the method of aut	hentication needed for your PBX.	
Profile settings Authentication details	Registration or, (Username/password)	IP Authentication 🥥	
Reports	SIP User S	Skype user name	
« Back to SIP Profile list	Skype Connect address s	Skype password Generate a new password sip.skype.com	
	A SIP user is not yet registered at sip		

5.Settings on IPPBX

3. build one sip trunk with Skype for sip account

Provider Type: Custom Trunk

Host: sip.skybe.com

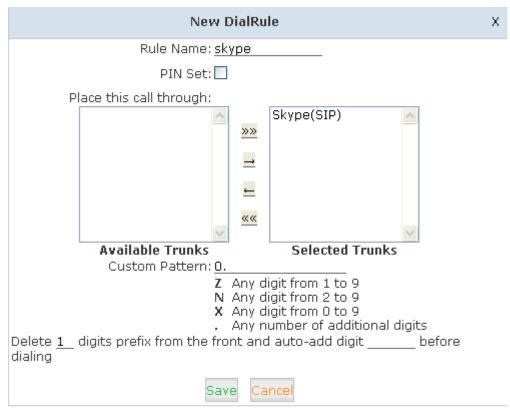
User name: the user name you defined in Authentication detail

Password: the password you defined in Authentication detail



	New VoIP Trunk		×	
Description:	Skype			
Protocol:	SIP 🚩			
Host:	sip.skype.com	:5060		
Maximum Channels*:	0			
Prefix:				
Caller ID:				
Without Authentication				
Username: Skype user name				
Authuser: Skype password				
Password: •••••••••				
Advanced Options				
	Save Cancel			

B. Set one outbound rule





Edit	×
DialPlan Name: <u>DialPlan1</u> Include External Calling Rules Skype	Include Internal Calling Rules Extensions Spy Conference Ring Groups IVR Call Queues Paging and Intercom Directory DISA

C. Make an outbound call

After we have done the above, in the extension we can dial 00 + Country Code + City Area code + local number to dial out via Skype line

For example, dialing number 00(outbound prefix number)+ 001(International Code)+ 886(Country code) + 2(city Area code without 0)+ 22199518(local phone number) will enable you to contact Taiwan Planet Company

D. Set inbound rule

New Number DID			x
DID Number: Destination:	Skype number Goto IVR	💌 working time 💌	
	Save	Cancel	