Overview

PLANET IPX-1800 series IP PBX system are designed and optimized for the SMB, and SOHO daily communications. The IPX-1800 is the next generation voice communication platform for the small to medium enterprise. Designed as an open, scalable, and highly reliable telephony solution, the IPX-1800 series are able to accept 30 extension registrations, and effectively meeting scales from various enterprises. Designed to run on a variety of VoIP applications, the IPX-1800 provides centralized call control, auto-attendant, voice conferencing, PSTN, and IP-based communications. The IPX-1800 series divided into three models: the **IPX-1800** integrates up to 4 ISDN telephony interfaces (Euro-ISDN ST-interface); the **IPX-1803** integrates up to 4 telephony interfaces, including 3 FXO (Foreign eXchange Office, FXO), 1 FXS (Foreign eXchange Station, FXS); the FXS interface in IPX-1803 provides lifeline functionality; **the IPX-1804** integrates 4 FXO telephony interfaces to become a feature-rich PBX system that supports seamless communications between existing PSTN calls, analog, IP phones and SIP-based endpoints.

The IPX-1800 series IP PBX system integrates telephony call processing, call control, voice mail, and a widely PBX application programming interface into a highly scalable architecture designed to support both traditional circuit-based and the Internet telephony service within a distributed enterprise communications network.

With IPX-1800, standard SIP phones can be easily integrated in your office; plus the auto-config feature, you may integrate our IP Phone series - VIP-153T/VIP-154T, and the ATA (analog telephone adapter) series - VIP-156/VIP-157 to build up the VoIP network deployment in minutes.

Allowing distributed IP technology to meet traditional voice services, with proactive management interface, the IPX-1800 series IP PBX system in the daily business processes, enterprises can make people more productive, more intelligent tasks, and more customer satisfaction.

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Document Objectives

This guide provides physical installation, network configurations, and Internet access establishment information for the IP PBX System.

Document Organization

This guide is organized as follows:

- Preparation before beginning administration on IPX-1800
- Administration interface
- Network Interface quick configurations
- Internet access setup guide

Preparation before beginning administration on IP PBX System

1	Power cord (IPX-1803/IPX-1804)	110/220 Vo	lt, 60 Hz	
	Power adapter (IPX-1800N)	12V DC		
2	Telephony interface ports	IPX-1800N	4 x RJ-45 (Euro-ISDN ST-interface)	
		IPX-1803	3 x FXO, 1 x FXS	
		IPX-1804	4 x FXO	
3	USB ports	1.1/2.0. Plu	port with compliance to USB g in a USB hard drive for voicemail n the internal one	
4	WAN	Connect to a broadband modem or a WAN router		
5	LAN	Connect to a	a LAN switch	

Physical Interfaces

Administration Interface

The IP PBX provides GUI (Web based, Graphical User Interface) for machine management and administration.

Web configuration access

To start IP PBX web configuration, you must have one of these web browsers installed on computer for management

- Netscape Communicator 4.03 or higher
- Microsoft Internet Explorer 4.01 or higher with Java support

Default LAN IP address of IP PBX is **192.168.1.1.** You may now open your web browser, and insert **https://192.168.1.1** in the address bar of your web browser to logon IP PBX web configuration page via secure web access.

IPX-1800 will prompt for logon username/password, please enter: ${\it admin} \; / \; {\it admin}$ to continue machine administration.

Enter your account and password
Username Password
OK Reset

∽ NOTE:

The IPX-1800 supports HTTPs secure web session. Machine operators or system administrator may login machine via secure web connection for machine administration.

Format: https://LAN or WAN IP address of IP PBX

∽ NOTE:

In order to connect machine for administration, please locate your PC in the same network segment (192.168.1.x) of IPX-1800. If you're not familiar with TCP/IP, please refer to related chapter on user's manual CD or consult your network administrator for proper network configurations.

LAN/WAN Interface quick configurations

Nature of PLANET IPX-1800 is an IP Sharing (NAT) device, it comes with two default IP addresses, and default LAN side IP address is "**192.168.1.1**", default WAN side IP address is "**192.168.0.1**". You may use any PC to connect to the LAN port of IPX-1800 to start machine administration.

) Hint In general cases, the LAN IP address is the default VoIP router of LAN side workstations for Internet access, and the WAN IP of IPX-1800 are the IP address for remote calling party to connect with.

Execute your web browser, and insert the IP address (*https://192.168.1.1*) of IP PBX in the adddress bar. After logging on machine with username/password (default: **admin** / **admin**), browse to "System" --> "LAN setup" configuration menu:

Parameter Description

IP address LAN IP address of the IP PBX

Default: 192.168.1.1

Mask LAN mask of the IP PBX

Default: 255.255.255.0

After confirming the modifications, Please click on the **Save** button to apply settings and browse to "**IP PBX service**" page in "**Service**" menu to click the "**Reload**" button to make the settings effective



It is suggested to keep the DHCP server related parameters in default state to keep machine in best performance.

WAN IP address configuration via web configuration interface

Execute your web browser, and insert the IP address https://192.168.0.1 (default: 192.168.0.1) of IP PBX in the adddress bar. After logging on machine username/ password (default: admin / admin), browse to "System" configuration menu and select "WAN setup" option, you will see the configuration screen below:

Parameter Description

IP address WAN IP address of IPX-1800

Default: 192.168.0.1

Subnet Mask WAN mask of IPX-1800

Default: 255.255.255.0

Connection Type	Data required.
DHCP	In most circumstances, it is no need to configure the DHCP settings.
PPPoE	The ISP will assign PPPoE username / password for Internet access.
STATIC IP	The ISP will assign IP Address, and related information.

After confirming the modification you've done. Please click on the **Save** button to apply settings and browse to "**IP PBX service**" page in "**Service**" menu to click the "**Reload**" button to make the settings effective.



Please contact your Internet service provider to obtain the Internet access type, and select the proper network settings in IPX-1800 to establish the network connections.

Save Change to reload configurations

After modifying the IP PBX parameters, the changes are temporary stored in machine memory. Please be sure to activate the modifications via reloading the machine configurations.

:: IP PBX SERVICE	
Service & Configuration Advance	
IP PBX will reload configuration as soon as possible. Currently active calls will be disconnected in 3 minutes. Do you really want to Continue?	
IP PBX Configuration Reload RELOAD	
IP PBX Configuration Backup BACKUP PBX Settings Only	
IP PBX Configuration Restore	

Operation path: Service ---> IP PBX serviceVoice communication samples

Voice communication samples

There are several ways to make calls to desired destination in IPX-1800. In this section, we'll lead you step by step to establish your first voice communication via keypad and web browsers operations.

Voice communication via IP PBX system – IPX-1800

In the following sample, we'll introduce how to integrate the client with our IP PBX system IPX-1800 via general settings.



Machine configurations on the IPX-1800

STEP 1:

Please browse to the " $\textbf{Device} \rightarrow \textbf{IP}$ Phone'' menu and create new device for the general configuration.

:: D	EVICE F	HONE MANAGE	EMENT		
Devi VIP1			Device Administration URL		ADD
_		Associated Extension	Device Administration URL	Auto Client Conf	
	VIP153	1001	LINK	Disabled E	DIT APPLY
			1		

STEP 2:

Please browse to the "**Device** \rightarrow **Extension of IP Phone**" menu and press the **ADD** button to create the two extension accounts/password: 1001/123 (for VIP-153PT), and 2002/123(for VIP-156) for the voice calls.

	:: E	XTENSI	ON MAN	AGEM	ENT								
[)EL	ADD										
		Extension Number	Associated Device	Pickup Group	Unavailable Timeout	Line Type	User	Voicemail Enable	Language	Allow LAN Use Only	DTMF Mode	Try Peer- to- peer RTP	Rejecte Caller
		<u>1001</u>	VIP153	UG_DEF	10	wired	admin (admin)	yes	en	no	rfc2833	NO	
					1								

Extension Number	1001
Associated Device	VIP153 V
Password	•••
User	admin(admin) 💌
Pickup Group	UG_DEF 🗸
Line Type	Wired 💌
Language	English
Voicemail	Enable 🗸
Voicemail PIN	•••
Unavailable Timeout	10 💌 sec.
Allow LAN Use Only	
Try Peer-to-peer RTP	NO 💌
DTMF Mode	rfc2833 🗸 UPDATE BACK

STEP 3:

After setting up the parameters, please refer to the path to activate the settings:

```
Service ---> IP PBX service ---> IP PBX Configuration Reload
```

Service & Configuration Advance P BX will reload configuration as soon as possible. Currently active calls will be disconnected in 3 minutes. Do you really want to Continue? P BX Configuration Reload PECOAD PEX Configuration Reload PEX Configuration Reload PEX Settings Only			
Currently active calls will be disconnected in 3 minutes. Do you really want to Continue? IP PBX Configuration Reload RELOAD	ervice & Configuration Adv	Nance	
	ntly active calls will be disconner		
IP PBX Configuration Backup BACKUP PBX Settings Only	X Configuration Reload		

Machine configurations on the VIP-153PT

STEP 1:

After creating accounts on the IP PBX system, please log in VIP-153PT via web browser, browse to the **SIP Configuration**, and refer to the account settings of the IP Extension to complete the SIP parameters. After these configurations, be sure to click the "**DONE**" button to apply settings and browse to "**System Configuration**" menu to reboot the machine to make the settings effective.



Machine configurations on the VIP-156

STEP 1:

Please log in VIP-156 via web browser, browse to the **SIP Settings** menu. In the setting page, please browse to the **Service Domain** page, and insert the SIP parameters for IP PBX system.

Realm 1 (Default)	
Active:	⊙ On O Off
Display Name:	2002
Line Number:	2002
Register Name:	2002
Register Password:	•••
Domain Server:	192.168.1.1
Proxy Server:	192.168.1.1
Outbound Proxy:	
Register Period:	15 (0~99) [0: 30 sec,1~99 min]
Status:	Registered

Test the scenario:

To verify the VoIP communication, you may make calls from extension side (VIP-153PT) 1001 to the number 2002 (VIP-156) or reversely make calls from extension client (VIP-156) 2002 to the number 1001 (VIP-153PT)

Voice communication via IP PBX system – IPX-1800 (Auto-config)

In the following sample, we'll introduce how to integrate the client with our IP PBX system IPX-1800 via Auto-config feature.



Line Number: 1001

VIP-156 IP Address: 192.168.1.
 Line Number: 2002

Machine configurations on the IPX-1800

STEP 1:

Log in IPX-1800 and browse to the $\ensuremath{\text{DHCP}}$ menu and create new options list for the auto configuration.

:: DHCP SERVICE
DHCP POOL lan
Conclusion C
⊙ Range ○ Single-host Pool Name Ian
IP 192.168.1.01 ~ 192.168.1.200 Options 151.http://192.168.1.1/tttpboot/ ✔ DEL
Code,Value 151 http://192.168.1.1/ttpboc ADD
ADD UPDATE DEL CLEAR
Status :

Code: please insert 151 as the DHCP server option.

Value: http://LAN IP for IPX-1800/tftpboot

If you'd like to enable auto-config for IP extension features in IPX-1800, please be sure to setup the DHCP option code and the value information.

In most case, insert the optional code 151 and the value=http://192.168.1.1/tftpboot/

∽_{NOTE:}

• 192.168.1.1 is the IP address of IPX-1800

STEP 2:

Please browse to the $\textbf{Device} \rightarrow \textbf{IP}$ Phone menu and create new device for the auto configuration.

:: ENABLE A	AUTOMATIC CLIENT CONFIGURATION MANAGEMENT
Enable Automa	tic Client Configuration
Device	VIP153
Vendor Prefix	abc201s (a-zA-Z0-9_)
MAC Address	00 30 4f 12 34 aa
Supplementary C	onfiguration 💌
Codec Pr	reference
1 st codec	g711ulaw 🕑
1 st packet time	10 🗸
2nd codec	g711ulaw 🔽
2nd packet time	
3rd codec	g711ulaw 👻
3rd packet time	
Enable Voice	Activity Detection (VAD)
DTMF Mode	RFC2833 V
ENABLE	ACK

STEP 3:

Please press the **Show extensions** button to create the two extension accounts/ password: **1001/123** (for VIP-153PT), and **1002/123** (for VIP-156) for the voice calls.

Extension Number	1001			
Associated Device	VIP153 V			
Password	•••			
User	admin(admin) 💌			
Pickup Group	UG_DEF 🗸			
Line Type	Wired V			
Language	English			
Voicemail	Enable 🗸			
Voicemail PIN	•••			
Unavailable Timeout	10 v sec.			
Allow LAN Use Only				
Try Peer-to-peer RTP	NO 💌			
DTMF Mode	rfc2833 🗸 EBACK			

STEP 4:

After setting up the parameters, please refer to the path to activate the settings : Service ---> IP PBX service ---> IP PBX configuration reload

:: IP PBX SERVICE				
Service & Configuration	Advance			
IP PBX will reload configuration Currently active calls will be disc Do you really want to Continue?	connected in 3 m			
IP PBX Configuration Reload	RELOAD	D		
IP PBX Configuration Backup	BACKUP	PBX Settin	gs Only	
IP PBX Configuration Restore	RESTORE			

Machine configurations on the VIP-153PT

STEP 5:

Please log in VIP-153PT via web browser, please browse to the **Phone Configuration** page, and enable the IPX PBX setting features for IP PBX system. After these configurations, be sure to click the "**DONE**" button to apply settings and browse to "**System Configuration**" menu to reboot the machine to make the settings effective.



STEP 6:

After enabling the Auto-config feature, the VIP-153PT shall be able to obtain IP address and SIP extension information from IP PBX system IPX-1800 information. The VIP-153PT will perform registration to IPX-1800 after obtaining the extension config file.

Machine configurations on the VIP-156

STEP 7:

Please log in VIP-156 via web browser, browse to the **Advanced Settings** menu. In the setting page, please browse to the Auto-config page, and enable the Auto Configuration features for IP PBX system. (Your may connect telephone set to VIP-157, press #136 to enable the Auto Configuration, or press #137 to disable the Auto Configuration setting.)

Auto Configuration Setting

You could enable/disable the auto configuration setting in this page.

Auto Configuration:	⊙On ◯Off		
	Submit	Reset	

STEP 8:

After enabling the Auto-config feature, the VIP-156 shall be able to obtain IP address and SIP extension information from IP PBX system. To verify the auto-config results, you may connect telephone set to VIP-156; press #120# to check if the IP address is obtained from IPX-1800. And #122# can be used to verify the extension number as-signed by IPX-1800.

Test the scenario:

To verify the VoIP communication, you may make calls from extension side (VIP-153PT) 1001 to the number 1002 (VIP-156) or reversely make calls from extension client (VIP-156) 1002 to the number 1001 (VIP-153PT)

Quick reference in CD-ROM guide

This guide is used to help you startup your IP PBX system settings. It is also recommended to check the user manual CD-ROM for more details likes the "Web Setup", and how to set the device back to default value.

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