

User's Manual



High Definition PoE/Non-PoE IP Phone

► IP-1000PT/VIP-1000T



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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.

Energy Saving Note of the Device

This power required device does not support Standby mode operation. For energy saving, please remove the DC-plug or push the hardware Power Switch to OFF position to disconnect the device from the power circuit.

Without removing the DC-plug or switching off the device, the device will still consume power from the power circuit. In view of Saving the Energy and reducing the unnecessary power consumption, it is strongly suggested to switch off or remove the DC-plug from the device if this device is not intended to be active.

WEEE Warning



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.

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Revision

User's Manual of PLANET High Definition PoE/Non-PoE IP Phone

Model: VIP-1000PT/VIP-1000T

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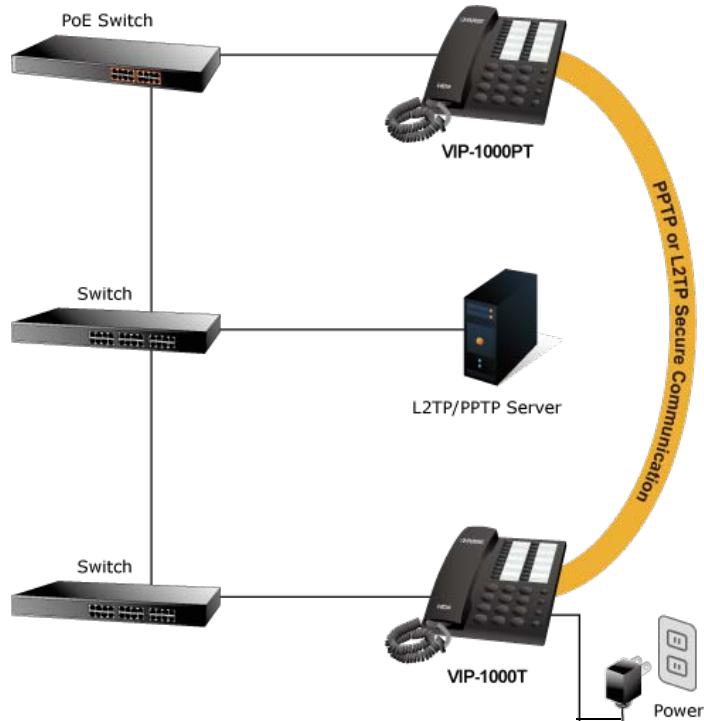
Chapter 1. Introduction



Cost-effective, High-definition VoIP Phone

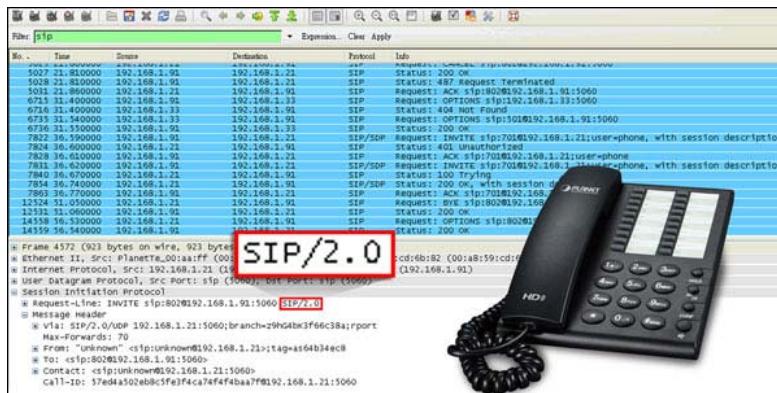
PLANET VIP-1000PT and VIP-1000T are low-cost but high-definition PLANET IP Phones where the earlier model comes with the PoE technology and the latter is without PoE. Whatever, both models, through IP PBX, feature VoIP and traditional telephone communications, and converged data and voice networks which can be built from one location to another without considering distance, thus making communications convenient over a long distance.

In addition, the VIP-1000PT and VIP-1000T have a 1-line business IP feature. VoIP communications can be extended when using PPTP VPN or L2TP VPN. The VIP-1000PT and VIP-1000T also allow call to be transferred to anyone at any location within the voice system, which enables the enterprise to communicate more effectively and is helpful to streamline business processes.



Standard Compliance

Compliant with the Session Initiation Protocol 2.0 (RFC 3261), the VIP-1000PT and VIP-1000T are able to function with other PLANET and any third-party VoIP products.



Enhanced, Full-Featured Business IP Phones

The VIP-1000PT and VIP-1000T are business IP phones that address the communication needs of the enterprises. They provide 1 voice line and 10/100Mbps Ethernet network. Furthermore, the VIP-1000PT and VIP-1000T deliver 20 multi-functional keys with speed dial and shortcut key. The VIP-1000PT and VIP-1000T support all kinds of SIP-based phone features including Call Waiting, Auto Answer, Music on Hold, Caller ID and Call Waiting ID, 3-way Conferencing, Call Hold, Call Forwarding, Black List, Hotline, DTMF Relay, In-Band, Out-of-Band (RFC 2833) and SIP info method, among others. Besides office use, the VIP-1000PT and VIP-1000T are also the ideal solution for VoIP service offered by Internet Telephony Service Provider (ITSP).



Secure, High-Quality VoIP Communication

The VIP-1000PT and VIP-1000T support SIP v2 for easy integration with general voice over IP system. It can also effortlessly deliver secured toll voice quality by utilizing cutting-edge 802.1p QoS (Quality of Service) and IP TOS technology. It also supports HD (High Definition) voice as G.722 to provide clear communications.



1.1 Features

➤ **Highlights**

- Supports SIP 2.0 (RFC3261)
- IEEE 802.3af/at Power over Ethernet compliant (VIP-1000PT only)
- Supports HD voice (G.722)
- Voice Activity Detection
- Auto Provisioning: TFTP, HTTP and HTTPS
- IP conflict detection

➤ **Advantageous Applications**

- SIP supports SIP domain, DNS name of server, peer to peer/IP call
- In-band, out-of-band, SIP info, RFC2833 DTMF relay
- Adaptive jitter buffer management
- Echo cancellation
- Full duplex hands-free speaker phone
- Hands-free headset ringing choice
- Voice codec setting for SIP line
- Customized ring tone

➤ **SIP Applications**

- Call forward and transfer (blind/attended)
- Call holding and waiting
- 3-way conferencing
- Paging and intercom
- Call park, call pickup and join call
- Call history, and blacklist (Each supports 100 records)
- Supports phonebook with 500 records
- Supports shortcut keys and speed dial
- Supports CSV phonebook and browser

➤ **Call Control Features**

- DTMF Relay: In-band, out-of-band (RFC2833) and SIP info
- Call log: redial list, answered calls and missed calls
- White list and limit call
- Do not disturb (DND)
- Caller ID, CLIR (rejects an anonymous call) and CLIP (make a call with anonymous)
- Dial without registration

➤ **Network Features**

- PPPoE and DHCP client on WAN
- 802.1P and Q VLAN
- VPN (L2TP, PPTP)
- Main DNS and secondary DNS server

- DNS relay and SNTP client
- QoS with Layer 2 and Layer 3 (SIP/RTP/Data)

➤ **Maintenance and Management**

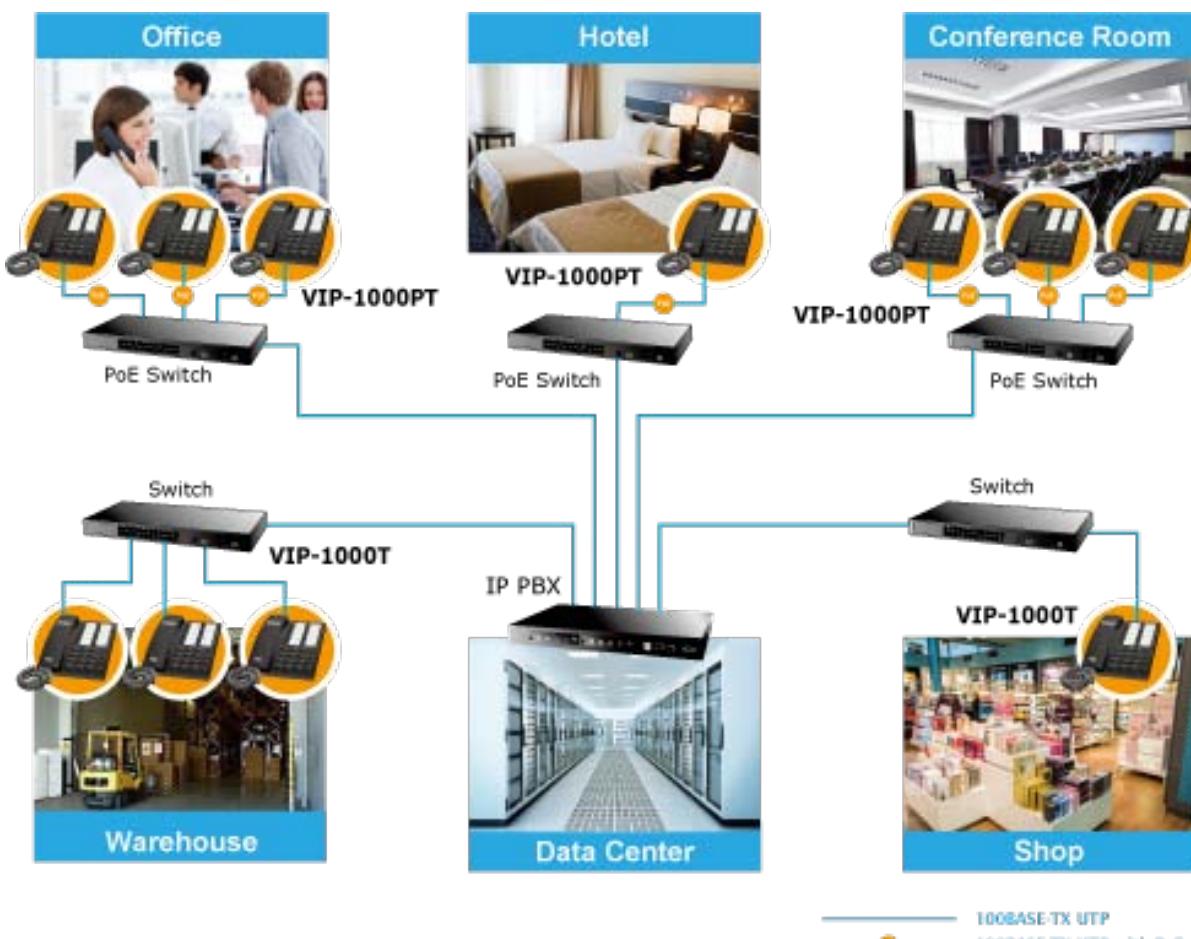
- Integrated web server provides web-based administration and configuration
- Automated provisioning and upgrade via HTTPS, HTTP, TFTP
- User authentication for configuration pages
- Local and remote syslog (RFC 3164)
- SNTP time synchronization and TR-069

1.2 Applications

Enterprise IP Telephony Deployment of VIP-1000 Series

The VIP-1000 Series is much easier to install and configure than the traditional phone system. Its low cost and high-definition voice quality give you value for money. Based on standard SIP 2.0, it is compatible with all the standard SIP-based servers.

The VIP-1000 Series (The VIP-1000PT PoE model or the VIP-1000T non-PoE model) can be set up in any place to conveniently communicate with friends or business associates via IP PBX.



1.3 Product Specifications

Product	VIP-1000PT High Definition PoE IP Phone	VIP-1000T High Definition IP Phone
Hardware		
Lines (Direct Numbers)	1-line business-class IP phone	
Feature Keys	12 dialing buttons (0~9, *, #) 4 x fixed function buttons 20 multi-functional key	
Physical Interfaces	One 10/100BASE-T RJ45 Ethernet port (IEEE 802.3) Handset: RJ9 connector Built-in speakerphone and microphone	
Protocols and Standard		
Data Networking	MAC address (IEEE 802.3) IPv4 (RFC 791) Address Resolution Protocol (ARP) DNS: A record (RFC 1706), SRV record (RFC 2782) Dynamic Host Configuration Protocol (DHCP) client (RFC 2131) Internet Control Message Protocol (ICMP) (RFC 792) TCP (RFC 793) User Datagram Protocol (UDP) (RFC 768) Real-time Protocol (RTP) (RFC 1889, 1890) Real-time Control Protocol (RTCP) (RFC 1889) Differentiated Services (DiffServ) (RFC 2475) Type of Service (ToS) (RFC 791, 1349) VLAN tagging 802.1p/Q: Layer 2 Quality of Service (QoS) Simple Network Time Protocol (SNTP) (RFC 2030) Backward compatible with RFC2543 Session Timer (RFC4028) SDP (RFC2327) NAPTR for SIP URI Lookup (RFC2915)	
Voice Gateway	SIP version 2 (RFC 3261, 3262, 3263, 3264) SIP support in NAT networks [including STUN (RFC 3489)] Message Waiting Indicator (RFC3842) Voice algorithms: - G.711 (A-law and μ-law) - G.729A/AB with PAMS above 4.0 - G.722 - G.723 Dual-tone multi-frequency (DTMF), in-band and out-of-band (RFC 2833) (SIP info) Voice activity detection (VAD) Adaptive jitter buffer management Comfort noise generation Echo cancellation	
Provisioning, Administration, and Maintenance	Integrated web server provides web-based administration and configuration Automated provisioning and upgrade via HTTPS, HTTP, TFTP User authentication for configuration pages Local and remote syslog (RFC3164) SNTP time synchronization Capture wireshark trace via web Multi-user level SNMPv2 TR069	
Features		
Telephony Features	One Voice Line Call Waiting Auto Answer Music on Hold Caller ID	

	Three-way Call Conferencing Call Hold and Call Forwarding Call Transfer: blind transfer and attended transfer Call Log: redial list, answered calls and missed calls Volume Adjustment: handset, speaker and ringer Volume Gain: handset input and speakerphone input Delayed Hotline Redial, Speed Dial Pick Up, Call Park, Dial Plan Black List Do Not Disturb (DND) Full-duplex Speakerphone Customized Ring Tone Call History (100 records) - Most Recently Missed Calls - Most Recently Received Calls - Most Recently Dialed Numbers Phone Book (500 records) Blacklist (100 records)
Environment	
Power Requirements	5V DC, 1A IEEE802.3af/at PoE class 3 Max. 2w
Operating Temperature	0 ~ 50 degree C
Operating Humidity	10 ~ 90% (non-condensing)
Weight	488g
Dimensions (W x D x H)	185 x 146 x 67 mm
Emission	CE, FCC
Connectors	One 10/100 Mbps Ethernet, RJ45 RJ9 handset connector DC power jack DND switch

1.4 Physical Specifications and Packaging

Dimensions

Dimensions (W x D x H)	185 x 146 x 67 mm
Net Weight	488g (VIP-1000PT) 477g (VIP-1000T)

Basic Packaging

- SIP IP Phone Unit x 1
- Power Adapter x 1 (VIP-1000T only)
- Quick Installation Guide x 1
- RJ45 Cable x 1
- Stand x 1

1.5 Keypad

Keypad, LED and Function Key Definitions



Keypad Descriptions

Interface		Description
1	Handset Top Cradle	For the placement of handset (Receiver end)
	Hook Switch	For hang-up and hang-off of handset
	Handset Bottom Cradle	For the placement of handset (Transmitter end)
	Handset Cord Port	RJ11 jack on the left side of the IP phone
2	Multi-Functional Key	These keys can be used as speed dial and shortcut keys.
3	Numeric Keypad	Enters numeric digits for initiating a call or for entering configuration information.
4	Other Functions and Numeric Keys	Including HOLD, XFER, CONF and SPEAKER.
		Key Function
		HOLD The HOLD key is used to hold the current call; press it again to release the HOLD function.
		XFER The XFER key is used to transfer calls, including attended transfer and unattended

Interface		Description
		transfer.
	CONF	The CONF key is used to implement conference meeting calls.
	SPEAKER	Press it to use hands-free.

Rear View and Panel Descriptions

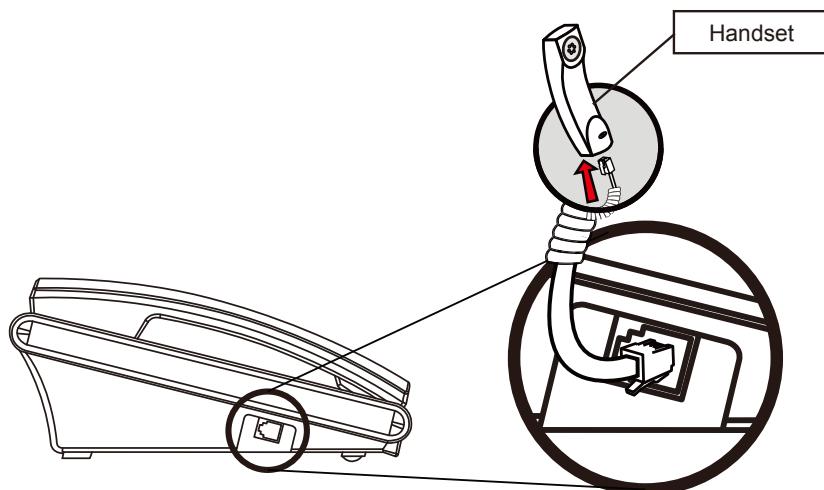
Interface Descriptions

Interface		Description
1	Headset	Headset console, connect to headset
2	DND Switch	The Switch is used to turn on or turn off DND. Under the character DND is a dot. When the switch is near the dot, DND is on, otherwise DND is off. Taking the left picture for example, DND is on.
3	DC 5V	Power port
4	Internet	Connects to the Ethernet switch, router or Internet. This port provides PoE (VIP-1000PT only).

Chapter 2. Initial Connection and Login

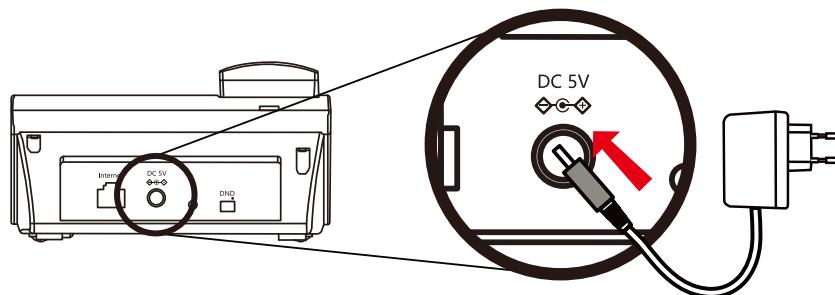
Step 1. Handset Connection

Insert one end of the Handset Cord into Handset and the other end into Handset Jack.

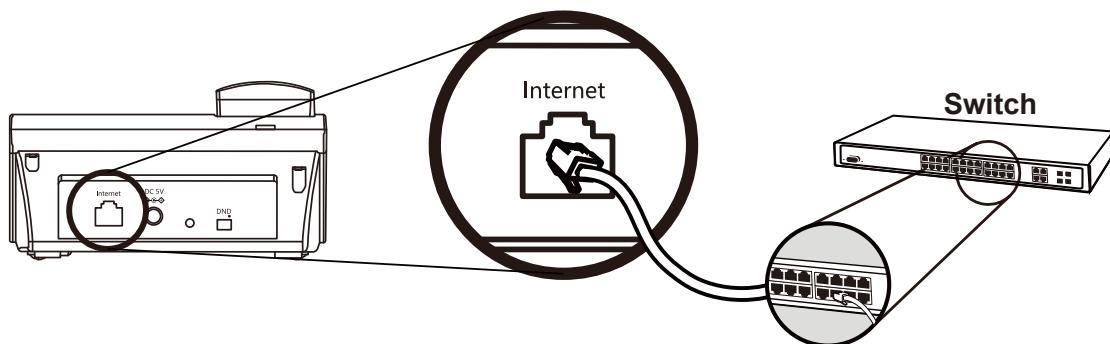


Step 2a. Connecting Power Adapter and Network

Power Adapter



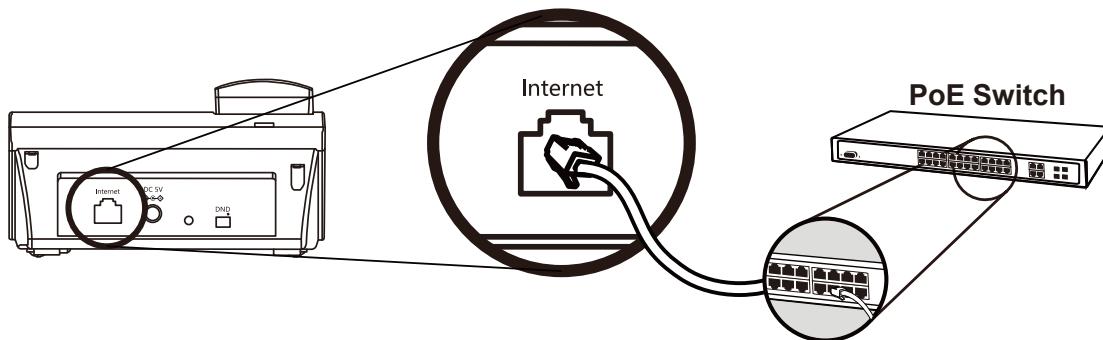
Network



Use only the 5V DC, 1A power to ensure correct functionality.

Step 2b. Connecting Power via PoE Interface and Network

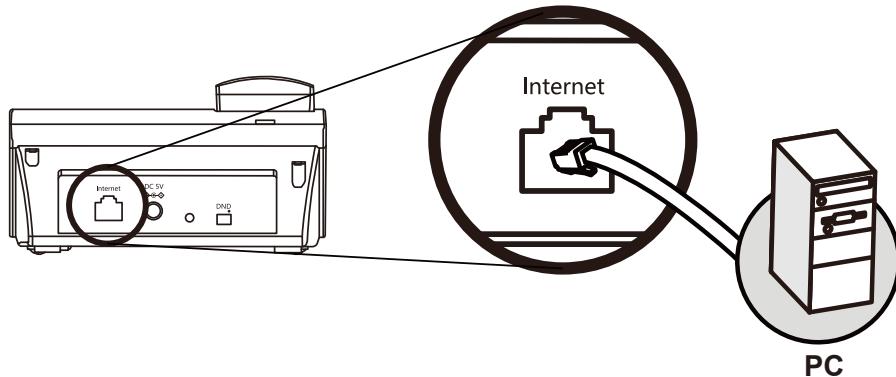
The VIP-1000PT can be configured without external power if connected to an IEEE802.3af PSE device such as 802.3af PoE injector/hub or 802.3af PoE switch.



Only the VIP-1000PT supports 802.3af power injection; use of any non-standard PoE injector could damage the device.

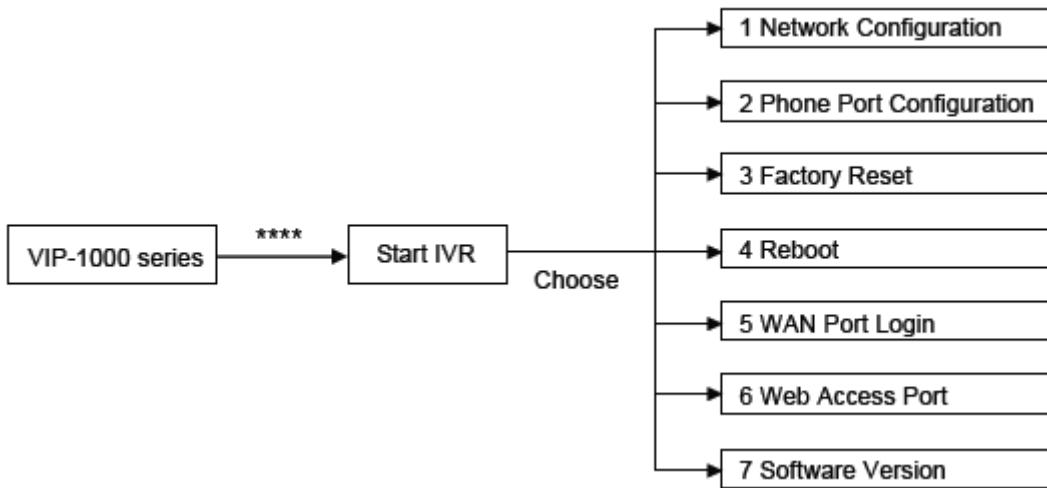
Step 3. Computer Network Setup

Set your computer's IP address to 172.16.0.x, where x is a number between 2 to 254 (except 1 which is being used for the camera by default). If you don't know how to do this, please ask your network administrator.



Step 4. Login Prompt

Use web browser (Internet Explorer 8.0 or above) to connect to 172.16.0.1 (type this address in the address bar of web browser). You'll be prompted to input user name and password: **admin** and **123**, respectively. If you lose an IP of the VIP-1000PT/T, please refer to the description below to get the IP via panel button.

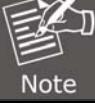
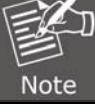


IVR Descriptions

Below is the table that lists commands and descriptions:

Operation Code	Contents
1. Network Configuration	<p>1.1 WAN Port Connection Type</p> <p>1) Pick up phone and press '****' to start IVR;</p> <p>2) Choose '1', and the VIP-1000PT/T will report on the current WAN Port IP Address;</p> <p>3) At the prompt, please enter password. User needs to key-in the pound sign '#' at the end of the password if he wants to configure the WAN port connection type.</p> <ul style="list-style-type: none"> ◆ The password for IVR is the same as the one of Web login. User can use the phone keypad to enter password directly, and follow the instructions under Notice below. ◆ For example, Web login username is 'admin', so password for IVR is 'admin', too. User needs to input '23646' to access and then configure the WAN connection port. <p>4) 'Operation successful' will be reported if password is right;</p> <p>5) Choose the new WAN port connection type from 1.DHCP and 2.Static IP, and end with '#';</p> <p>6) 'Operation successful' will be reported, meaning the changes have been successfully made. Then VIP-1000PT/VIP-1000T will return with a prompt: 'Please enter your option, one Network Configuration'.</p>
	 <p>Note</p> <ol style="list-style-type: none"> 1. Add '#' after inputting password and select the new WAN port connection type. 2. If you want to quit, press '*'.

	<h3>1.2 WAN Port IP Address</h3> <ol style="list-style-type: none"> 1) Pick up phone and press '*****' to start IVR; 2) Choose '1' and then '2', and the VIP-1000PT/VIP-1000T will report on the current WAN Port IP Address; 3) Input the new WAN port IP address and end it with '#'. <ul style="list-style-type: none"> ◆ Use '*' to replace '..'. User can input 192*168*20*168 to set the new IP address 192.168.20.168. ◆ Press the '#' key to indicate that you have finished. 4) 'Operation successful' will be reported if it's done properly.
	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;">  Note </div> <ol style="list-style-type: none"> 1. If you want to quit, press '***'. 2. Set the WAN IP, and then Subnet Mask, Gateway and DNS (Operation Code 1.2, 1.3, 1.4 and 1.5); otherwise, the new setting will be invalid.
	<h3>1.3 WAN Port Subnet Mask</h3> <ol style="list-style-type: none"> 2) Pick up phone and press '*****' to start IVR; 3) Choose '1' and then '3', and the VIP-1000PT/VIP-1000T will report on WAN port subnet mask; 4) Input a new WAN port subnet mask with '#' at the end. <ul style="list-style-type: none"> ◆ Use '*' to replace '..'. User can input 255*255*255*0 to set the new WAN port subnet mask 255.255.255.0. ◆ Press the '#' key to indicate that you have finished. 5) 'Operation successful' will be reported if it's done properly.
	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;">  Note </div> <p>If you want to quit, press '***'.</p>
	<h3>1.4 Gateway</h3> <ol style="list-style-type: none"> 1) Pick up phone and press '*****' to start IVR; 2) Choose '1' and then '4', and the VIP-1000PT/VIP-1000T will report on the current gateway; 3) Input the new gateway and end it with '#'. <ul style="list-style-type: none"> ◆ Using '*' to replace '..', user can input 192*168*20*1 to set the new gateway 192.168.20.1. ◆ Press the '#' key to indicate that you have finished. 4) 'Operation successful' will be reported if it's done properly.
	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;">  Note </div> <p>If you want to quit, press '***'.</p>
	<h3>1.5 DNS</h3>

	<ol style="list-style-type: none"> 1) Pick up phone and press '****' to start IVR; 2) Choose '1' and then '5', and the VIP-1000PT/VIP-1000T will report on the current DNS. 3) Input the new DNS and end with '#'. <ul style="list-style-type: none"> ◆ Use '*' to replace '..'. User can input 192*168*20*1 to set the new DNS 192.168.20.1. ◆ Press the '#' key to indicate that you have finished. 4) 'Operation successful' will be reported if it's done properly. <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">  Note If you want to quit, press '*'. </div>
2. Phone Port Configuration	<h4>2.1 Phone Number</h4> <ol style="list-style-type: none"> 1) Pick up phone and press '****' to start IVR; 2) Choose '2' and then '1', and the VIP-1000PT/VIP-1000T will report on the current Phone Number. <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">  Note If you want to quit, press '*'. </div>
	<h4>2.2 Server IP Address</h4> <ol style="list-style-type: none"> 1) Pick up phone and press '****' to start IVR; 2) Choose '2', and the VIP-1000PT/VIP-1000T will report on the current Server IP Address. <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">  Note If you want to quit, press '*'. </div>
3. Factory Reset	<ol style="list-style-type: none"> 1) Pick up phone and press '****' to start IVR. 2) Choose '3', and the VIP-1000PT/VIP-1000T will report on 'Factory reset'. 3) At the prompt, please enter password. Please refer to Operation 1 for the password input. 4) 'Operation successful' will be reported if password is right and then the VIP-1000PT/VIP-1000T will be set to factory default. 5) Press '4' to reboot to make changes effective. <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">  Note If you want to quit, press '*'. </div>
4. Reboot	<ol style="list-style-type: none"> 1) Pick up phone and press '****' to start IVR; 2) Choose '4', and the VIP-1000PT/VIP-1000T will report on 'Reboot'. 3) At the prompt, please enter password. Refer to Operation 1 for the password input. 4) The VIP-1000PT/VIP-1000T will reboot if password is right and operation is done properly. <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">  Note If you want to quit, press '*'. </div>

5. WAN Port Login	<ol style="list-style-type: none"> 1) Pick up phone and press '*****' to start IVR; 2) Choose '5', and the VIP-1000PT/VIP-1000T will report on the 'WAN Port Login'; 3) At the prompt, please enter password. Please refer to Operation 1 for the password input. 4) 'Operation successful' will be reported if operation is properly done. 5) At the prompt '1-enable 2-disable', choose 1 or 2, and end with '#'. 6) 'Operation successful' will be reported if it's done properly.
6. Web Access Port	<ol style="list-style-type: none"> 1) Pick up phone and press '*****' to start IVR; 2) Choose '6', and the VIP-1000PT/VIP-1000T will report on 'Web Access Port'. 3) At the prompt, please enter password. Please refer to Operation 1 for the password input. 4) 'Operation successful' will be reported if operation is properly done. 5) Reports on the current Web Access Port; 6) Set the new Web access port and end with '#'. 7) 'Operation successful' will be reported if it's done properly.
7. Software Version	<ol style="list-style-type: none"> 1) Pick up phone and press '*****' to start IVR; 2) Choose '7', and the VIP-1000PT/VIP-1000T will report on the current 'Firmware version'.



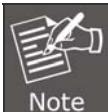
Note

If you want to quit, press '***'.



Note

If you want to quit, press '***'.



Note

If you want to quit, press '***'.

Chapter 3. Network Service Configurations

Configuring and Monitoring your IP Phone from Web Browser

The IP Phone integrates a web-based graphical user interface that can cover most configurations and machine status monitoring. Via standard web browser, you can configure and check machine status from anywhere around the world.

Manipulation of IP Phone via Web Browser

After TCP/IP configurations on your PC, you may now open your web browser, and input <http://172.16.0.1> to logon to the IP Phone web configuration page.

IP Phone will prompt for logon username and password: **admin** and **123**.



When users log in to the web page, users can see the IP Phone system information like firmware version, company, etc. on this main page.

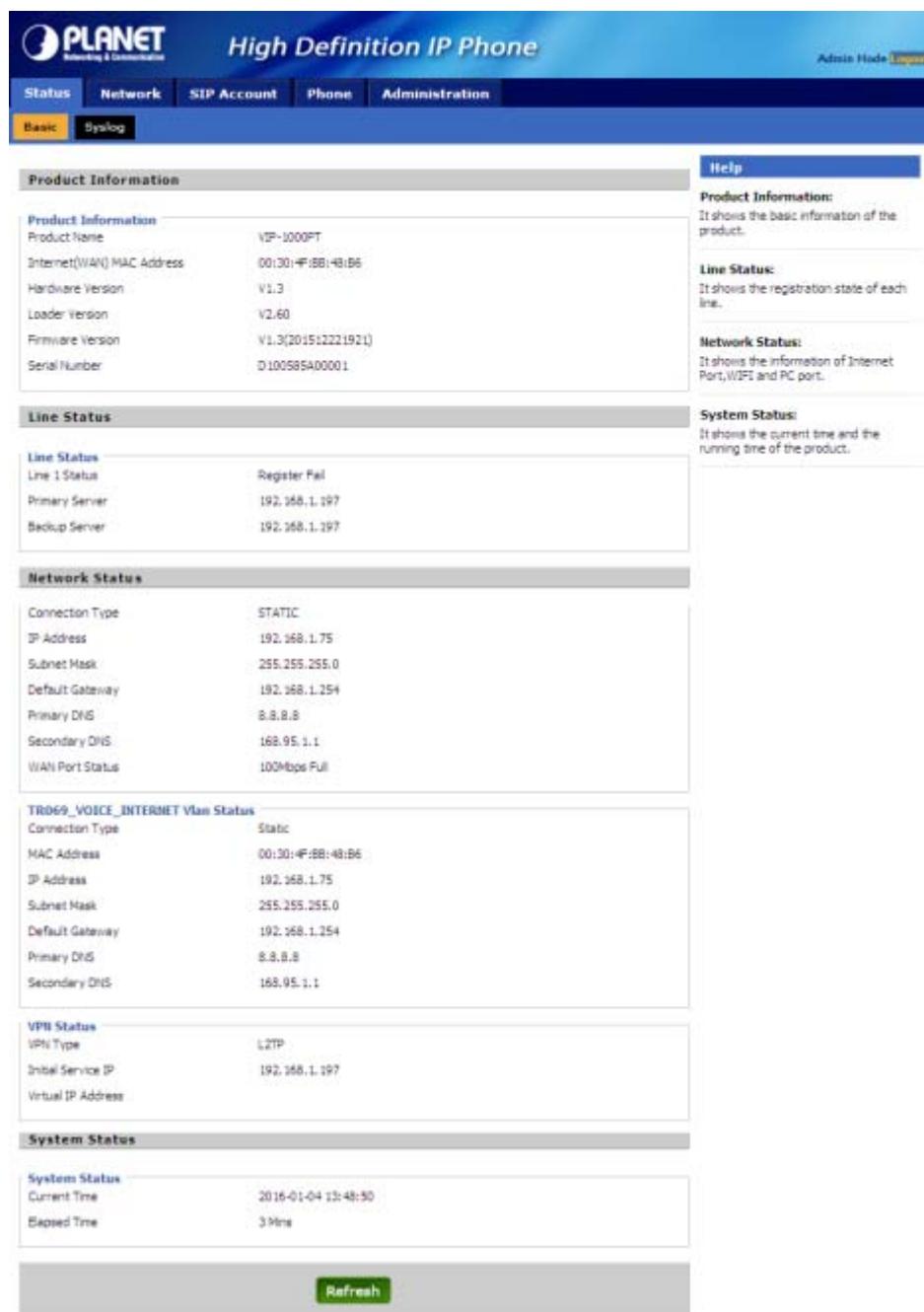
Chapter 4. VoIP IP Phone Status

4.1 Status

You can check the basic phone status to find out more information about the phone. They include three parts: Basic, Syslog and Network.

4.1.1 Basic

Included on this page are Product Information, Line Status, Network Status, VPN status and System Status.



The screenshot shows the 'Basic' tab selected in the navigation bar. The main content area is divided into several sections:

- Product Information:**

Product Name	VIP-1000PT
Internet(WAN) MAC Address	00:30:4F:BB:4B:B6
Hardware Version	V1.3
Loader Version	V2.60
Firmware Version	V1.3(201512221921)
Serial Number	D100585A00001
- Line Status:**

Line 1 Status	Register Fail
Primary Server	192.168.1.197
Backup Server	192.168.1.197
- Network Status:**

Connection Type	STATIC
IP Address	192.168.1.75
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.254
Primary DNS	8.8.8.8
Secondary DNS	168.95.1.1
WAN Port Status	100Mbps Full
- TR069_VOICE_INTERNET Vlan Status:**

Connection Type	Static
MAC Address	00:30:4F:BB:4B:B6
IP Address	192.168.1.75
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.254
Primary DNS	8.8.8.8
Secondary DNS	168.95.1.1
- VPN Status:**

VPN Type	L2TP
Initial Service IP	192.168.1.197
Virtual IP Address	
- System Status:**

System Status	
Current Time	2016-01-04 13:48:50
Bridged Time	3 Mins

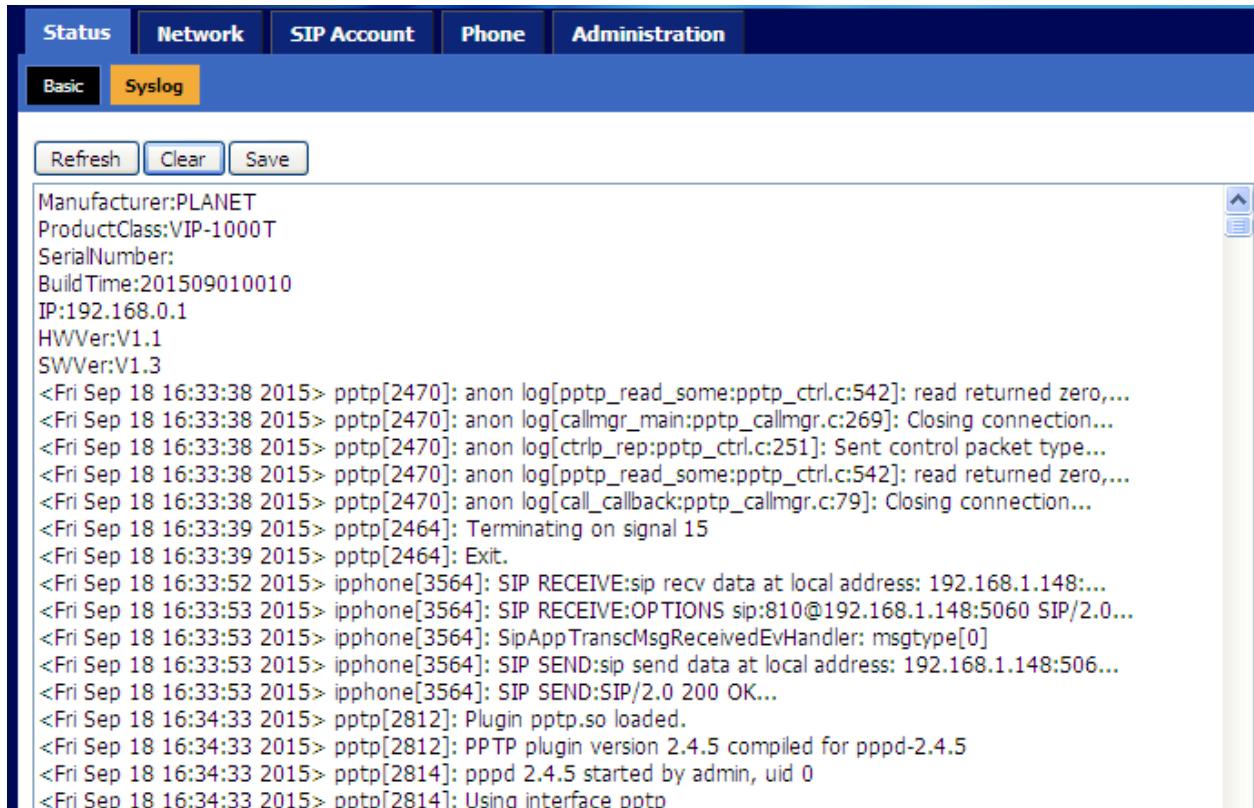
A 'Help' section on the right provides descriptions for each category:

- Product Information:** It shows the basic information of the product.
- Line Status:** It shows the registration state of each line.
- Network Status:** It shows the information of Internet Port, WiFi and PC port.
- System Status:** It shows the current time and the running time of the product.

A 'Refresh' button is located at the bottom of the page.

4.1.2 Syslog

In this configuration interface, you can view Syslog, which records the VIP-1000 Series' important configuration information. On this page, you can Refresh/Clear/Save your syslog by clicking the related button.



The screenshot shows the 'Administration' tab selected in the top navigation bar, with the 'Syslog' sub-tab highlighted. Below the tabs are three buttons: Refresh, Clear, and Save. The main area contains a scrollable text box displaying the following syslog entries:

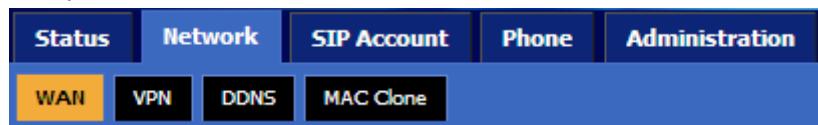
```

Manufacturer:PLANET
ProductClass:VIP-1000T
SerialNumber:
BuildTime:201509010010
IP:192.168.0.1
HWVer:V1.1
SWVer:V1.3
<Fri Sep 18 16:33:38 2015> pptp[2470]: anon log[pptp_read_some:pptp_ctrl.c:542]: read returned zero, ...
<Fri Sep 18 16:33:38 2015> pptp[2470]: anon log[callmgr_main:pptp_callmgr.c:269]: Closing connection...
<Fri Sep 18 16:33:38 2015> pptp[2470]: anon log[ctrlp_rep:pptp_ctrl.c:251]: Sent control packet type...
<Fri Sep 18 16:33:38 2015> pptp[2470]: anon log[pptp_read_some:pptp_ctrl.c:542]: read returned zero, ...
<Fri Sep 18 16:33:38 2015> pptp[2470]: anon log[call_callback:pptp_callmgr.c:79]: Closing connection...
<Fri Sep 18 16:33:39 2015> pptp[2464]: Terminating on signal 15
<Fri Sep 18 16:33:39 2015> pptp[2464]: Exit.
<Fri Sep 18 16:33:52 2015> ippone[3564]: SIP RECEIVE:sip recv data at local address: 192.168.1.148:...
<Fri Sep 18 16:33:53 2015> ippone[3564]: SIP RECEIVE:OPTIONS sip:810@192.168.1.148:5060 SIP/2.0...
<Fri Sep 18 16:33:53 2015> ippone[3564]: SipAppTranscMsgReceivedEvHandler: msgtype[0]
<Fri Sep 18 16:33:53 2015> ippone[3564]: SIP SEND:sip send data at local address: 192.168.1.148:506...
<Fri Sep 18 16:33:53 2015> ippone[3564]: SIP SEND:SIP/2.0 200 OK...
<Fri Sep 18 16:34:33 2015> pptp[2812]: Plugin pptp.so loaded.
<Fri Sep 18 16:34:33 2015> pptp[2812]: PPTP plugin version 2.4.5 compiled for pppd-2.4.5
<Fri Sep 18 16:34:33 2015> pptp[2814]: pppd 2.4.5 started by admin, uid 0
<Fri Sep 18 16:34:33 2015> pptp[2814]: Using interface pptp

```

4.2 Network

User can configure the parameters of Internet Port, VPN, DDNS and MAC Clone.



4.2.1 Internet Port (WAN)

1) Static:

In static mode, user should fill in the values of IP Address, Subnet Mask, Default Gateway, Primary DNS and Secondary DNS got from your administration.

Field Name	Description
Internet port	Choose Static IP
IP Address	The IP address of Internet port
Subnet Mask	The subnet mask of Internet port
Default Gateway	The default gateway of Internet port
DNS Mode	No chosen option
Primary DNS	The primary DNS of Internet port
Secondary DNS	The second DNS of Internet port

WAN IP Mode	<input type="button" value="Static ▾"/>
VLAN Mode	<input type="button" value="Disable ▾"/>
VLAN ID	<input type="text" value="1"/> (1-4094)
Static	
IP Address	<input type="text" value="192.168.1.11"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Default Gateway	<input type="text" value="192.168.1.254"/>
DNS Mode	<input type="button" value="Manual ▾"/>
Primary DNS	<input type="text" value="8.8.8.8"/>
Secondary DNS	<input type="text" value="168.95.1.1"/>

2) DHCP:

In DHCP mode, IP phone is a DHCP client.

IP phone will get the IP Address, Subnet Mask and Default Gateway from the DHCP server.

Field Name	Description
Internet Port	Choose DHCP
DHCP Renew	Renew the phone's IP address
DNS Mode	Choose DNS mode from Manual and Auto. ◆ In Manual: user should set the primary DNS and secondary DNS manually. ◆ In Auto: IP phone will get the primary DNS and secondary DNS from DHCP server automatically.
Primary DNS Address	Set the primary DNS address manually.
Secondary DNS Address	Set the second DNS address manually.

WAN IP Mode	<input type="button" value="DHCP"/> <input type="button" value="Disable"/>
VLAN Mode	<input type="button" value="Disable"/>
VLAN ID	<input type="text" value="1"/> (1-4094)
DNS Mode	<input type="button" value="Auto"/>
Primary DNS	<input type="text" value="8.8.8.8"/>
Secondary DNS	<input type="text" value="168.95.1.1"/>
DHCP	
DHCP Renew	<input type="button" value="Renew"/>
DHCP Vendor(Option 60)	<input type="text" value="PLANET-VIP-1000PT"/>
<input type="button" value="Save"/> <input type="button" value="Cancel"/> <input type="button" value="Reboot"/>	

3) PPPoE:

Field Name	Description
Internet Port (WAN)	Choose PPPoE
PPPoE Account	Fill in the PPPoE account which you get from Internet Service Provider.
PPPoE Password	Fill in the PPPoE password which you get from Internet Service provider.
Confirm Password	Fill in the PPPoE password again
Operation Mode	Choose operation mode shown below: ◆ In Keep Alive mode, user needs to set the 'keep alive redial period' from 0 to 3600 seconds, the

Field Name	Description
	default value is 60 seconds; ◆ In On Demand mode, user needs to set the 'on demand idle time' from 0 to 60 minutes; the default value is 5 minutes. ◆ In Manual mode, the following two options are not chosen.
Keep Alive Redial Period (0-3600s)	Set the keep alive redial period in 'Keep Alive' mode.
On Demand Idle Time (0-60m)	Set the on demand idle time in 'On Demand' mode.

WAN IP Mode	<input type="button" value="PPPoE ▾"/>
VLAN Mode	<input type="button" value="Disable ▾"/>
VLAN ID	<input type="text" value="1"/> (1-4094)
DNS Mode	<input type="button" value="Auto ▾"/>
Primary DNS	<input type="text" value="8.8.8"/>
Secondary DNS	<input type="text" value="168.95.1.1"/>
PPPoE	
PPPoE Account	
PPPoE Password	••••••••••
Confirm Password	••••••••••
Service Name	
Leave empty to autodetect	
Operation Mode	<input type="button" value="Keep Alive ▾"/>
Keep Alive Redial Period(0-3600s)	<input type="text" value="5"/>
<input type="button" value="Save"/> <input type="button" value="Cancel"/> <input type="button" value="Reboot"/>	

4.2.2 VPN

A Virtual Private Network (VPN) is the extension of a private network that encompasses links across shared or public networks like the Internet. In short, by VPN technology, you can send data between two computers across a shared or public network in a manner that emulates the properties of a point-to-point private link.

Field Name	Description
VPN Enable:	Choose either PPTP or L2TP for the VPN mode if VPN is enabled.
Initial Service IP:	VPN server IP address
User Name:	The user name for authentication.
Password:	Password for authentication.

VPN Settings

Administration

VPN Enable

PPTP 

Disable

PPTP

L2TP

Initial Service IP

User Name

Password

VPN As Default Route

Disable 

4.2.3 DDNS

Field Name	Description
Dynamic DNS Provider	Enable DDNS and choose the provider for it. There are three DNS providers on this page.
Account	Fill in the account you get from your provider.
Password	Fill in the password you get from your provider.
DDNS	Fill in your DDNS domain or IP address.
Status	Reflect if the DDNS upgrade is successful or not.
Apply/Cancel	Apply your changes or cancel your changes.

There are two kinds of Planet DDNS in VIP-1000 Series. One is Planet easy DDNS and the other is Planet dynamic DDNS. The major difference is Planet easy DDNS does not need to apply a user account.

DDNS Setting	
Dynamic DNS Provider	Planet
Easy DDNS	Easy DDNS
Easy Domain Name	pl3E6D13.planetddns.com
Status	DDNS updated successfully!
<input type="button" value="Save"/> <input type="button" value="Cancel"/> <input type="button" value="Reboot"/>	
DDNS Setting	
Dynamic DNS Provider	Planet
Easy DDNS	Dynamic DDNS
Account	test08
Password	*****
DDNS URL	iphone256.planetddns.com
Status	DDNS updated successfully!
<input type="button" value="Save"/> <input type="button" value="Cancel"/> <input type="button" value="Reboot"/>	

4.2.4 MAC Clone

Description
MAC is the hardware address of network equipment. Sometimes network providers may bind network account with network equipment's MAC address. So you may not pass the provider's authentication when you use a new VIP-1000 Series. In this case, you can use MAC clone to copy your PC's MAC address to VIP-1000 Series' Internet port.
MAC is an important parameter for network equipment, so you should make sure that the MAC is right, in order to prevent VIP-1000 Series from being unusable. You can log in to the VIP-1000 Series webpage via PC port if you incidentally make it wrong. And then clone the right MAC or resume the default settings.

Enable MAC address clone;

Press **Get Current PC MAC** button to get the PC's MAC address;

Press **Save** button to save your change; if you don't want to use MAC clone,

press **Cancel** button to cancel your change;

Press **Reboot** to reboot VIP-1000 Series.

MAC Address Clone

MAC Address Clone

MAC Address Clone

Enable **Enable**

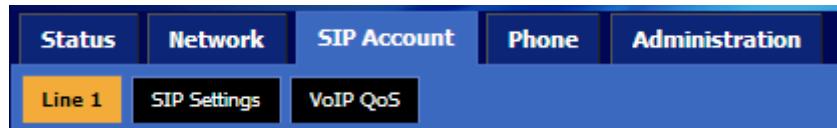
MAC Address

00:30:4F:18:35:AB

Get Current PC MAC

Save **Cancel** **Reboot**

4.3 SIP Account



4.3.1 Line 1

On this webpage, users can configure the information about SIP account 1, including the following 4 parts: Basic Setup, Audio Configuration, Supplementary Service Subscription and Advanced. The following are the descriptions about these:

1) Basic Setup

Set the basic information provided by your VoIP Service Provider, such as phone number, account, password, SIP proxy and so on.

Basic			
Basic Setup			
Line Enable	<input type="button" value="Enable"/> <input type="button" value="Disable"/>	Outgoing Call without Registration	<input type="button" value="Disable"/>
Proxy and Registration			
Proxy Server	<input type="text" value="192.168.1.21"/>	Proxy Port	<input type="text" value="5060"/>
Outbound Server	<input type="text" value="192.168.1.21"/>	Outbound Port	<input type="text" value="5060"/>
Backup Outbound Server	<input type="text" value="192.168.1.21"/>	Backup Outbound Port	<input type="text" value="5060"/>
Subscriber Information			
Display Name	<input type="text" value="808"/>	Phone Number	<input type="text" value="808"/>
Account	<input type="text" value="808"/>	Password	<input type="text" value="*****"/>

Field Name	Description
Line Enable	Enable Line 1 or not.
Outgoing Call without Registration	Enable Peer To Peer or not. <ul style="list-style-type: none"> ◆ If enabled, line 1 will not send register request to SIP server; ◆ In System Status, line 1 status is registered; ◆ Line 1 can make calls out, but others cannot call line1.
Proxy Server	Fill in the IP address of your SIP server.
Outbound Server	Outbound Proxy IP or domain name.
Backup Outbound Server	Backup outbound server IP or domain name.
Proxy port	The value of Proxy Port, the default value is 5060.
Outbound Port	The value of Outbound Port, the default value is 5060.
Backup Outbound Port	The value of Backup Outbound Port, the default value is 5060.

Field Name	Description
Display Name	The number will display in caller.
Phone Number	The number provided by SIP Proxy.
Account	SIP Account provided by SIP Proxy.
Password	SIP password provided by SIP Proxy.

2) Audio Configuration

Select the audio codec you want to use.

Audio Configuration

Codec Setup			
Audio Codec Type 1	G.711U	Audio Codec Type 2	G.711A
Audio Codec Type 3	G.729	Audio Codec Type 4	G.722
Audio Codec Type 5	G.723	G.723 Coding Speed	5.3k bps
Packet Cycle(ms)	20	Silence Supp	Disable
Echo Cancel	Enable	Auto Gain Control	Enable
Use First Matching Vocoder in 200OK SDP	Disable	Codec Priority	Remote

Field Name	Description
Audio Codec Type 1	Choose the audio codec type from G.711A,G.711U,G.722,G.729 and G.723
Audio Codec Type 2	Choose the audio codec type from G.711A,G.711U,G.722,G.729 and G.723
Audio Codec Type 3	Choose the audio codec type from G.711A,G.711U,G.722,G.729 and G.723
Audio Codec Type 4	Choose the audio codec type from G.711A,G.711U,G.722,G.729 and G.723
Audio Codec Type 5	Choose the audio codec type from G.711A,G.711U,G.722,G.729 and G.723
G.723 Coding Speed	Choose the speed of G.723 from 5.3kbps and 6.3kbps.
Packet Cycle (ms)	The RTP packet cycle time, the default value is 20ms.
Silence Supp	Enable silence or not.
Echo Cancel	Enable echo cancel or not.

3) Supplementary Service Subscription

Supplementary Service Subscription

Supplementary Services			
Call Waiting	Enable	Hot Line	<input type="text"/>
MWI Enable	Enable	Voice Mailbox Numbers	<input type="text"/>
MWI Subscribe Enable	Disable		

Field Name	Description
Call Waiting	Enable call waiting or not.
Hot Line	Fill in the hotline number. If you have set it, when you pick your phone up, VIP-1000 Series will dial out the hotline number automatically.
MWI Enable	Enable MWI (message waiting indicate) or not. If you want to use mailbox, please enable it.

Field Name	Description
Voice Mailbox Numbers	Fill in the mailbox's feature code provided by your server, for example, in Planet IP PBX, the code is *61.

4) Advanced

Advanced

SIP Advanced Setup

Domain Name Type	Enable <input type="button" value="▼"/>	Carry Port Information	Disable <input type="button" value="▼"/>
Signal Port	5060	DTMF Type	RFC2833 <input type="button" value="▼"/>
RFC2833 Payload(>=96)	101	Register Refresh Interval (sec)	3600
Caller ID Header	FROM <input type="button" value="▼"/>	Remove Last Reg	Disable <input type="button" value="▼"/>
Session Refresh Time(sec)	0	Refresher	UAC <input type="button" value="▼"/>
SIP 100REL Enable	Disable <input type="button" value="▼"/>	SIP OPTIONS Enable	Disable <input type="button" value="▼"/>
Initial Reg With Authorization	Disable <input type="button" value="▼"/>	Reply 182 On Call Waiting	Disable <input type="button" value="▼"/>
NAT Keep-alive Interval(10-60s)	15	Anonymous Call	Disable <input type="button" value="▼"/>
Anonymous Call Block	Disable <input type="button" value="▼"/>	Proxy DNS Type	A Type <input type="button" value="▼"/>
Use OB Proxy In Dialog	Disable <input type="button" value="▼"/>	Reg Subscribe Enable	Disable <input type="button" value="▼"/>
Dial Prefix	<input type="text"/>	User Type	IP <input type="button" value="▼"/>
Hold Method	ReINVITE <input type="button" value="▼"/>	Request-URI User Check	Disable <input type="button" value="▼"/>
Only Recv Request From Server	Disable <input type="button" value="▼"/>	Server Address	<input type="text"/>
SIP Received Detection	Disable <input type="button" value="▼"/>	VPN	Disable <input type="button" value="▼"/>
Country Code	<input type="text"/>	Remove Country Code	Disable <input type="button" value="▼"/>
Tel URL	Disable <input type="button" value="▼"/>		

Field Name	Description
Domain Name Type	Use domain name in the SIP URI or not.
Carry Port Information	Use carry port information in the SIP URI or not.
Signal Port	The default value of the local port of SIP protocol is 5060.
DTMF Type	Choose the DTMF type between In-band, RFC2833 and SIP Info.
RFC2833 Payload(>=96)	User can use the default setting.
Register Refresh Intervals(sec)	The interval between two normal register messages. You can use the default setting.
RTP Port	Set the port to send RTP. IP phone will select one idle port for RTP if you set '0', otherwise, use the value user set.
Cancel Message Enable	When you set enable, an unregistered message will be sent before registration, while you set disable, unregistered message will not be sent before registration. You should set the option for a different proxy.
Session Refresh Time (sec)	The interval time between two sessions. You can use the default value.
Refresher	Choose refresher between UAC and UAS.

Field Name	Description
Prack Enable	Enable Prack or not.
SIP Option Enable	If this option is enabled, VIP-1000 Series will send SIP-PING to server periodically instead of sending hello packet. The send interval is Keep-alive interval.
Keep-alive Interval (10-60s)	The interval that VIP-1000 Series will send to proxy is an empty packet.
Anonymous Call	Enable anonymous call or not.
Anonymous Call Block	Enable anonymous call block or not.
Proxy DNS Type	Set the proxy DNS type between A Type and DNS SRV.
Use OB Proxy In Dialog	Use OB proxy in dialog or not.
VPN	Enable VPN or not.

4.3.2 SIP Settings

1) **SIP Settings Parameters** -- The following window describes the parameters briefly.

SIP Parameters

SIP T1	500 ms	Max Forward	70
SIP User Agent Name	<input type="text"/>	Max Auth	2
Reg Retry Intvl	30 sec	Reg Retry Long Intvl	1200 sec
Mark All AVT Packets	Enable <input type="button" value="▼"/>	RFC 2543 Call Hold	Enable <input type="button" value="▼"/>
SRTP	Disable <input type="button" value="▼"/>	SRTP Prefer Encryption	AES_CM <input type="button" value="▼"/>
Service Type	Common <input type="button" value="▼"/>	DNS Refresh Timer	0 sec

Response Status Code Handling

Retry Reg RSC	<input type="text"/>
---------------	----------------------

2) **NAT Traversal**

NAT Traversal

NAT Traversal	Disable <input type="button" value="▼"/>	STUN Server Address	<input type="text"/>
NAT Refresh Interval(sec)	60	STUN Server Port	3478

Enable NAT traversal in NAT Traversal. As VIP-1000 Series supports STUN traversal, choose 'STUN' if you want NAT/Firewall Traversal. And fill in the STUN Server IP address in the field. Set the value of interval of refreshing NAT in NAT Refresh Interval; the default value is 60 seconds, And set the value of STUN server port in STUN Server Port; the default value is 3478.

4.3.3 VoIP QoS

Through modifying SIP or RTP to different value of QoS, this determine

QoS Settings

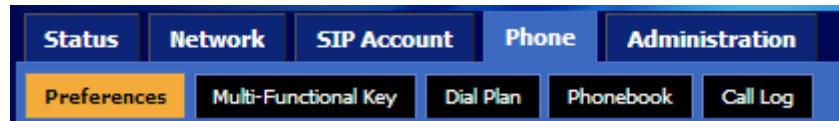
Layer 3 QoS	
SIP QoS(0-63)	<input type="text" value="46"/>
RTP QoS(0-63)	<input type="text" value="46"/>

Save **Cancel** **Reboot**

This page allows you to configure the basic QoS DSCP Translation settings for SIP and RTP. The maximum number of supported DSCP values is 64 and the valid DSCP value ranges from 0 to 63.

4.4 Phone

On this webpage, user can configure VIP-1000 Series' preferences like Multi-Functional Key, Dial Rule, Phonebook and Call Log.



4.4.1 Preferences

1) Preferences

Preferences

Volume Settings			
Handset Input Gain	5	Handset Volume	5
Speakerphone Input Gain	5	Speaker Volume	5
Ringer Volume	5	Speakerphone Mic Boost	Disable

Field Name	Description
Handset Input Gain	Adjust the handset input gain from 0 to 7.
Speakerphone Input Gain	Adjust the speakerphone input gain from 0 to 7.
Ringer Volume	Adjust the ringer volume from 0 to 7.
Handset Volume	Adjust the handset volume from 0 to 7.
Speaker Volume	Adjust the speaker volume from 0 to 7.
Speakerphone MIC Boost	Enable speakerphone MIC boost or not.

2) Regional

Regional

Tone Type	Custom		
Dial Tone	350@-19,440@-19;30(*/0/1+2)		
Busy Tone	480@-19,620@-19;30(.5/.5/1+2)		
Off Hook Warning Tone	480@-19,620@-19;*(.25/.25/1+2)		
Ring Back Tone	440@-19,480@-19;*(2/4/1+2)		
Call Waiting Tone	440@-19;*(.3/10/1)		
Min Jitter Delay(0-600ms)	20	Max Jitter Delay(20-1000ms)	160
Ringing Time(10-300sec)	60		

Field Name	Description	Default
Tone Type	Choose tone type from Custom, China, U.S., India and so on.	Custom
Dial Tone	When entering a phone number to make an outbound call.	350@-19,440@-19;30(*/0/1+2)
Busy Tone	When receiving an outbound call.	480@-19,620@-19;30(.5/.5/1+2)
Off Hook Waiting Tone	When the handset is not placed on the cradle properly.	480@-19,620@-19;*(.25/.25/1+2)
Ringback Tone	The tone you will hear while waiting for the call to be answered.	440@-19,480@-19,*(2/4/1+2)
Call-waiting Tone	Special dial tone can be played when call waiting is activated.	440@-19;*(.3/10/1)
Min. Jitter Delay (ms)	The min. value of VIP-1000 Series' jitter delay which is an adaptive jitter mechanism.	20
Max. Jitter Delay (ms)	The max. value of VIP-1000 Series' jitter delay which is an adaptive jitter mechanism.	160
Ringing Time (sec)	The extension of ringing time for VIP-1000 Series.	60

3) Call Forward

Features

All Forward:	<input type="button" value="Disable ▾"/>	Busy Forward:	<input type="button" value="Disable ▾"/>
No Answer Forward:	<input type="button" value="Disable ▾"/>		

Call Forward

All Forward:	<input type="text"/>	Busy Forward:	<input type="text"/>
No Answer Forward:	<input type="text"/>	No Answer Timeout:	<input type="text" value="20"/>

Feature Code

Cfwd All On Code:	<input type="text"/>	Cfwd All Off Code:	<input type="text"/>
Cfwd Busy On Code:	<input type="text"/>	Cfwd Busy Off Code:	<input type="text"/>
Cfwd No Ans On Code:	<input type="text"/>	Cfwd No Ans Off Code:	<input type="text"/>
DND On Code:	<input type="text"/>	DND Off Code:	<input type="text"/>

Webpage/Field Name		Description
Features	All Forward	Enable all forward or not.
	Busy Forward	Enable busy forward or not.
	No Answer Forward	Enable no answer forward or not.
Call Forward	All Forward	Set the target phone number to all forward.
	Busy Forward	Set the target phone number to busy forward.

Webpage/Field Name		Description
	No Answer Forward	Set the target phone number to no answer forward.
	No Answer Timeout	The time a caller has to wait before being forwarded.
Feature Code	Cfwd All On Code	The feature code of enabling all forward provided by your SIP provider.
	Cfwd All Off Code	The feature code of disabling all forward provided by your SIP provider.
	Cfwd Busy On Code	The feature code of enabling busy forward provided by your SIP provider.
	Cfwd Busy Off Code	The feature code of disabling busy forward provided by your SIP provider.
	Cfwd No Ans On Code	The feature code of enabling no answer forward provided by your SIP provider.
	Cfwd No Ans Off Code	The feature code of disabling no answer forward provided by your SIP provider.
	DND On Code	The feature code of enabling DND.
	DND Off Code	The feature code of disabling DND.

4) Miscellaneous

Miscellaneous			
Auto Answer	Disable <input type="button" value="▼"/>	Auto Answer by CallINFO	Disable <input type="button" value="▼"/>
Dial Time Out(IDT)	5 <input type="text"/>	Call Immediately Key	# <input type="button" value="▼"/>
Auto Hookon Mode	Enable <input type="button" value="▼"/>	Preferred Audio Device	Disable <input type="button" value="▼"/>
ICMP Ping	Disable <input type="button" value="▼"/>	Escaped char enable	Disable <input type="button" value="▼"/>

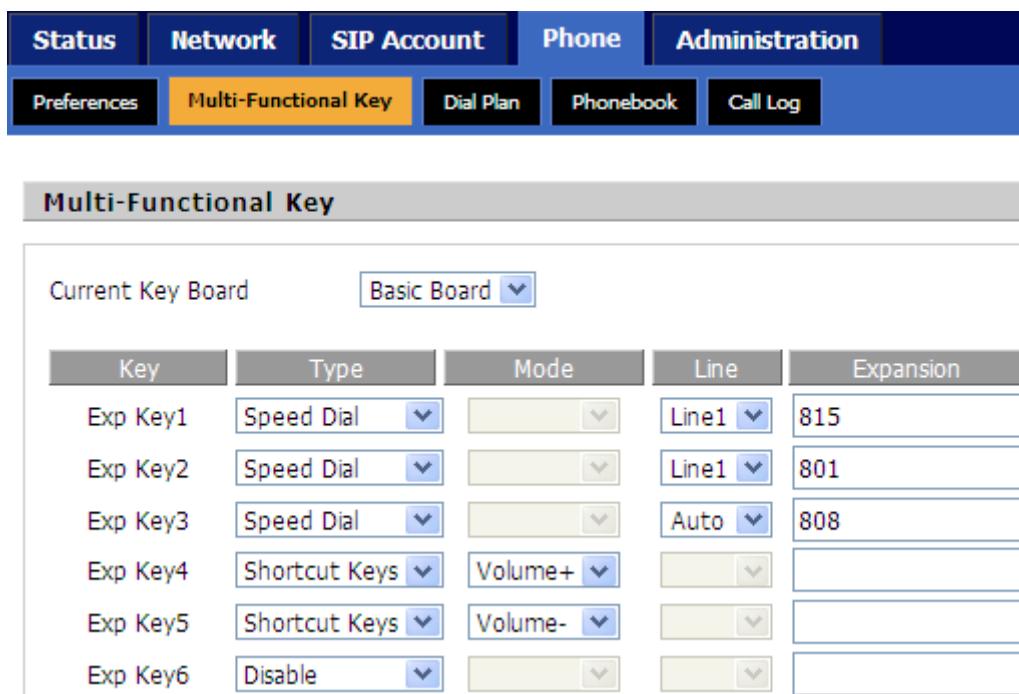
Field Name	Description
Auto Answer	If enabled, VIP-1000 Series will automatically answer all incoming calls immediately.
Auto Answer by Call Info	Enable auto answer Call Info or not.
Dial Time Out	The dial-out tone of VIP-1000 Series will sound at a specified time.
Call Immediately Key	Choose call immediately key between * and #.
Auto Hook on Mode	If enabled, VIP-1000 Series will automatically hook on when the other speaker ends the call.
ICMP Ping	If enabled, VIP-1000 Series will ping the SIP Server at every interval time, otherwise, it will send 'hello' empty packet to the SIP Sever.
Preferred Audio Device	Choose preferred audio device between handsfree and headset.

4.4.2 Multi-Functional Key

VIP-1000 Series has 20 multi-functional keys, which can be used for making speed dial and changing the value of volume. Please follow the following processes to set up these multi-functional key functions:

- Choose one EXP Key from key 1 to 20;
- Choose one function type between speed dial and shortcut keys;
- Set the other corresponding parameter;
- Press the Save button to save changes and press the cancel button to cancel changes;
- Reboot VIP-1000 Series.

The following are the setting examples:



Key	Type	Mode	Line	Expansion
Exp Key1	Speed Dial		Line1	815
Exp Key2	Speed Dial		Line1	801
Exp Key3	Speed Dial		Auto	808
Exp Key4	Shortcut Keys	Volume+	Line1	
Exp Key5	Shortcut Keys	Volume-	Line1	
Exp Key6	Disable		Line1	

1) Add Speed Dial

- Choose one EXP Key to configure;
- Select Speed Dial from the drop-down list;
- Choose the Line between auto (the first registered line) and line 1;
- Fill in the phone number under Expansion;
- Press Save to save changes and press the Reboot button to make changes effective.
If set properly, press the corresponding key to make call immediately.

2) Add Shortcut Keys

- Choose one EXP Key to configure;
- Select Shortcut Keys from the drop-down list;
- Choose the Mode from Volume+ and Volume-;
- Press the Save button to submit changes and press the Reboot button to make changes effective.

If set properly, press the corresponding key to turn up or turn down the value.

4.4.3 Dial Plan

1) Parameters and Settings

Dial Plan

General	
Dial Plan	Disable <input type="button" value="▼"/>
Unmatched Policy	Reject <input type="button" value="▼"/>

No.	Line	Digit Map	Action	Move Up	Move Down	<input type="checkbox"/>
	Line	Line1 <input type="button" value="▼"/>				
	Digit Map	<input type="text"/>				
	Action	Deny <input type="button" value="▼"/>				
		<input type="button" value="OK"/> <input type="button" value="Cancel"/>				
			<input type="button" value="Save"/> <input type="button" value="Cancel"/> <input type="button" value="Reboot"/>			

Field Name	Description
Dial Plan	Enable dial plan or not.
Line	Choose the call mode from line1. Fill in the sequence used to match input number.
Digit Map	Please refer to the syntactic Dial Plan.
Action	Choose the dial plan mode between Deny and Dial out. Deny means VIP-1000 Series rejects the matched number, while dial out means VIP-1000 Series allows dialing out the matched number.
Move Up	Press it to move up.
Move Down	Press it to move down.

2) Add Dial Plan

- Enable Dial Plan;
- Click the Add button, and the configuration table will be like the above one;
- Fill in the value of parameters;
- Press the OK button to end configuration;
- Press Save to submit the changes and press the Reboot button to make the changes effective.

The following window is an example of the use of dial plan. You can set your IP phone like this to check if its dial plan functions well.

If set properly, take No.1 in the following window for example, you dial #56#, the IP phone's output will be 23%5623%. Since VIP-1000 Series does not have LCD, you can use **Hammer** or **Wireshark** to

check .

Dial Plan

General

Dial Plan	Disable <input type="button" value="▼"/>
Unmatched Policy	Reject <input type="button" value="▼"/>

No.	Line	Digit Map	Action	Move Up	Move Down	<input type="checkbox"/>
1	Line1	<#:23%>xx<#:23%>	Dial Out			<input type="checkbox"/>
2	Line1	<:010>#123#2<#:*23>2	Dial Out			<input type="checkbox"/>
3	Line1	<[4-5]:>22x<:333>	Dial Out			<input type="checkbox"/>
4	Line1	<9,8,:>711	Dial Out			<input type="checkbox"/>
5	Line1	7,6,5,4.<:001>	Dial Out			<input type="checkbox"/>

3) Syntactic Dial Plan

No.	String	Description
1	0 1 2 3 4 5 6 7 8 9 * #	Legal numbers
2	x	Lowercase letter x stands for legal character.
3	[sequence]	To match one character from one sequence. For example, ◆ [0-9]: match one digit from 0 to 9; ◆ [23-5*]: match one character from 2 or 3 or 4 or 5 or *.
4	x.	Match to x, xx, xxx and so on. For example, '01.' can match '0', '01', '011',.....'0111111....'.
5	<dialed:substituted>	Replace dialed with substituted. For example, <#:23%>xx<#:23%>, the input is #56#, the output should be 23%5623%.
6	x,y	Make outside dial tone after dialing 'x', stop until dialing 'y'. For example, <5,:><:241333>8101, the input is 58101 and the output will be 2413338101. What's more, VIP-1000 Series will make out line dial tone after dialing '5', stop dialing until character '8'.
7	T	Set the delayed time. For example, '<9:111>T2' means VIP-1000 Series will dial out the matched number '111' after 2 seconds of the dial time.

4.4.4 Phonebook

The user can download or upload phonebook to VIP-1000 Series via CSV file.

Phonebook Upload && Download		
Local File	<input type="text"/>	<input type="button" value="Browse..."/>
<input type="button" value="Upload CSV"/>	<input type="button" value="Download CSV"/>	
Blacklist Upload && Download		
Local File	<input type="text"/>	<input type="button" value="Browse..."/>
<input type="button" value="Upload CSV"/>	<input type="button" value="Download CSV"/>	

1) Phonebook

Name	<input type="text"/>
Number	<input type="text"/>
Ring	<input type="button" value="Bell Type 1"/>
	<input type="button" value="OK"/> <input type="button" value="Cancel"/>

Field Name	Description
Name	Input the name.
Number	Input the phone number.
Ring	Choose a different ring.
OK/Cancel	Submit or cancel your change.

Phonebook

Index	Name	Number	Ring	
1	c1	511	Bell Type 1	<input type="checkbox"/>
2	c5	515	Bell Type 3	<input type="checkbox"/>
3	601	601	Bell Type 8	<input type="checkbox"/>
4	602	602	Bell Type 6	<input type="checkbox"/>
5	c3	513	Bell Type 4	<input type="checkbox"/>

[Edit](#) [Add](#) [Delete](#) [Move to blacklist](#)
Add one phonebook:

- Click the Add button and the configuration table will be like picture 1;
- Fill in the value of parameters;
- Press the OK button to submit your change or press the cancel button to cancel your change, and then press the reboot button to make your change effective.

Edit one phonebook:

- Choose one phone book;
- Click the Edit button and the configuration table like picture 3 will appear;
- Change the value of parameters;
- Press the OK button to end configuration;
- Press the Save button to save your change and reboot the phone.

Delete one phonebook:

- Choose one phonebook;
- Click the Delete button to delete the phone book;
- Press the Save button to submit your change and reboot the phone to make your change effective.

Move one phonebook to blacklist:

- Choose one phonebook;
- Click the Move to Blacklist button, and the number you choose will be deleted from the phone book list and be moved to blacklist.
- Press the Save button to submit your change and press reboot to make your change effective.

2) Blacklist

Name	<input type="text"/>
Number	<input type="text"/>
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	

Field Name	Description
Name	Input the name.
Number	Input the number.

Blacklist

Index	Name	Number	<input type="checkbox"/>
1	602	602	<input type="checkbox"/>
2	m1	701	<input type="checkbox"/>
3	m2	702	<input type="checkbox"/>
4	1	801	<input type="checkbox"/>
5	2	802	<input type="checkbox"/>

Add one Blacklist:

- Click the Add button and the configuration table like picture 1 will appear;
- Fill in the value of parameters;
- Press the OK button to end configuration;
- Press the save button to submit change and reboot VIP-1000 Series to make your change effective.

Edit one Blacklist:

- Choose one blacklist;
- Click the Edit button and the configuration table like picture 3 will appear;
- Change the value of parameters;
- Press the OK button to end edit and press save to submit your change, and reboot VIP-1000 Series.

Delete one Blacklist:

- Choose one blacklist;
- Click the Delete button to delete the blacklist;
- Press the Save button to submit your change and reboot the phone to make your change effective.

Move one blacklist to phonebook:

- Choose one blacklist;
- Click the move to phonebook button to move the blacklist to the phonebook.
- Press the Save button to submit your change and reboot the phone to make your change effective.

4.4.5 Call Log

To view the call log information such as redial list (incoming calls), answered calls and missed calls.

1) Redial List

Redial List				
Index	Number	Start Time	Duration	
1	511	08/02 13:56	00:00:01	<input type="checkbox"/>
2	511	08/02 13:57	00:00:04	<input type="checkbox"/>
3	511	08/02 14:02	00:01:48	<input type="checkbox"/>
4	515	08/02 14:11	00:00:08	<input type="checkbox"/>
5	516	08/02 14:13	00:00:01	<input type="checkbox"/>
6	515	08/02 14:25	00:00:02	<input type="checkbox"/>
7	515	08/02 16:58	00:00:03	<input type="checkbox"/>
8	511	08/02 16:58	00:00:02	<input type="checkbox"/>
9	511	08/02 16:58	00:00:02	<input type="checkbox"/>
10	511	08/02 16:59	00:00:02	<input type="checkbox"/>
11	515	08/02 17:07	00:00:01	<input type="checkbox"/>

2) Answered Calls

Answered Calls				
Index	Number	Start Time	Duration	
1	512	01/01 00:00	00:00:02	<input type="checkbox"/>
2	512	01/01 00:01	00:00:05	<input type="checkbox"/>
3	602	01/01 00:02	00:00:02	<input type="checkbox"/>
4	513	01/01 00:04	00:00:01	<input type="checkbox"/>
5	602	01/01 00:05	00:00:02	<input type="checkbox"/>

3) Missed Calls

Missed Calls				
Index	Number	Start Time	Duration	
1	6016	01/01 00:03	00:00:02	<input type="checkbox"/>
2	6016	01/01 00:01	00:00:01	<input type="checkbox"/>
3	515	01/01 00:35	00:00:00	<input type="checkbox"/>
4	515	01/01 00:35	00:00:02	<input type="checkbox"/>

4.5 Administration

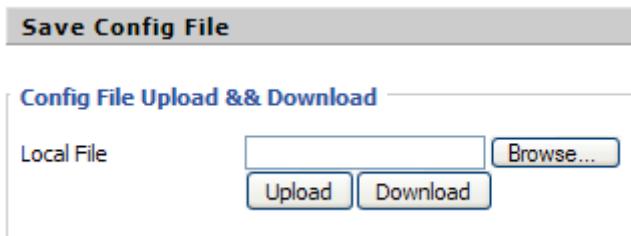
User can manage VIP-1000 Series on these six webpages; you can configure the Time/Date, password, web access, system log and so on.



4.5.1 Management

On this page, you can configure the value of Time/Date, Password, Factory Defaults and so on.

1) Save File Config File Upload & Download



The screenshot shows a configuration page titled 'Save Config File'. Below it is a section titled 'Config File Upload & Download'. This section contains a 'Local File' input field, a 'Browse...' button, and two buttons: 'Upload' and 'Download'.

User can upload and download configuration file on the webpage.

- Upload: First press Browse and choose your file in your computer; press Upload to begin uploading the configuration file.
- Download: First press Download and choose where to put the configuration file.

2) Administrator Settings

Administrator Settings	
Password Reset	
User Type	<input type="button" value="Admin User"/>
New User Name	<input type="text" value="admin"/>
New Password	<input type="password"/>
Confirm Password	<input type="password"/>
(The maximum length is 25)	
Language	
Language	<input type="button" value="English"/>
VPN Access	
Management Using VPN	<input type="button" value="Disable"/>
Web Access	
Remote Web Login	<input type="button" value="Enable"/>
Web Port	<input type="text" value="80"/>
Web Idle Timeout(0 - 60min)	<input type="text" value="5"/>
Allowed Remote IP(IP1;IP2;...)	<input type="text" value="0.0.0.0"/>
Telnet Access	
Remote Telnet	<input type="button" value="Enable"/>
Telnet Port	<input type="text" value="23"/>
Allowed Remote IP(IP1;IP2;...)	<input type="text" value="0.0.0.0"/>

User can change VIP-1000 Series' password, language and Web Access on this webpage.

Password Reset:

- Choose your type between Normal User and Admin User in User Type;
- Set your user name in New User Name;
- Set your new password in New password;
- Fill in your new password again in Confirm Password.

Language:

Choose your language: English, Russian, Spanish or other.

VPN Access:

Select management use VPN or not

Web Access:

- Remote Web Login: If enabled, user can access Web.
- Web Port: Set the port which is used to log in Web via Internet port and PC port; the default is 80,

- if you enable this. You must add: 80 in the URL.
- Web Idle Timeout: Set the Web Idle timeout time.
The webpage can be logged out after Web Idle Timeout without any operation.
 - Allowed Remote IP: Limit remote client access to VIP-1000 Series via Web. 0.0.0.0 means no limit.

Telnet Access:

- Limit remote client access to VIP-1000 Series via Telnet. 0.0.0.0 means no limit.

3) Time/Date Setting

Time/Date Setting	
NTP Settings	
NTP Enable	Enable <input type="button" value="▼"/>
Current Time	2015 - 10 - 13 . 15 : 39 : 50
Sync with host	<input type="button" value="Sync with host"/>
NTP Settings	(GMT +08:00) China Coast, Hong Kong <input type="button" value="▼"/>
Primary NTP Server	pool.ntp.org
Secondary NTP Server	cn.pool.ntp.org
NTP synchronization(1 - 1440min)	60
Daylight Saving Time	
Daylight Saving Time	Disable <input type="button" value="▼"/>

Field Name	Description
Current Time	Display the current time.
NTP Settings	Choose NTP
Primary NTP Sever	Fill in the primary NTP server IP address or Domain name.
Secondary NTP Server	Fill in the secondary NTP sever IP address or Domain name.
NTP synchronization(1-1440m)	The synchronization period with NTP; fill in the blank from 1 to 1440 minutes. The default value is 60 minutes.
Daylight Saving Time	Enable Daylight Saving Time or not.

Daylight Saving Time

Daylight Saving Time	Enable <input type="button" value="▼"/>
Offset	60 <input type="button" value="Min."/>
Start Month	April <input type="button" value="▼"/>
Start Day of Week	Sunday <input type="button" value="▼"/>
Start Day of Week Last in Month	First in Month <input type="button" value="▼"/>
Start Hour of Day	2 <input type="button" value=""/>
Stop Month	October <input type="button" value="▼"/>
Stop Day of Week	Sunday <input type="button" value="▼"/>
Stop Day of Week Last in Month	Last in Month <input type="button" value="▼"/>
Stop Hour of Day	2 <input type="button" value=""/>

Setup Steps:

- Enable Daylight Saving Time;
- Set value of offset, just like picture 2;
- Set Starting Month/Week/Day/Hour in Start Month/Start Day of Week and last in Month/Start Hour of Day. Set stop Month/Week/Day/Hour in Stop Month/Stop Day of Week and last in Month/Stop Day of Week/Stop Hour of Day, just like in picture 2.
- Press the Save button to save your changes and press the Reboot button to activate the changes.

4) System Log Setting

System Log Setting

Syslog Setting

Syslog Enable	Enable <input type="button" value="▼"/>
Syslog Level	DEBUG <input type="button" value="▼"/>
Remote Syslog Enable	Enable <input type="button" value="▼"/>
Remote Syslog Server	192.168.1.48

Field Name	Description
Syslog Enable	Enable system log or not.
Syslog Level	Choose log level between Info and Debug. Debug has priority to Info, the higher priority and more information in Syslog.

VIP-1000 Series supports local and remote syslog.

In local:

- Disable Remote Syslog and choose one system log level, just like in picture 1.
- Press the Save button to save and press the Reboot button to activate changes.
- User can view syslog on the Status/Syslog webpage.

In remote:

- Enable Remote Syslog and fill in Remote Syslog Server IP address or domain name;
- Choose one kind of Log Level;
- Press the Save button to submit your changes and press the Reboot button to activate the changes.

- User can view syslog in remote server, and he/she can view the syslog in Status/Syslog webpage, too.

5) Factory Default Setting

Factory Defaults Setting

Factory Defaults Setting Factory Defaults Lock	<input style="border: 1px solid #ccc; padding: 2px 10px; margin-right: 10px;" type="button" value="Disable"/> <input style="border: 1px solid #0070C0; background-color: #0070C0; color: white; padding: 2px 10px;" type="button" value="Enable"/>
--	--

Select enable or disable lock default function.

6) Factory Defaults

Factory Defaults

<input style="border: 1px solid #ccc; padding: 2px 10px;" type="button" value="Reset to Factory Defaults"/>	<input style="border: 1px solid #0070C0; background-color: #0070C0; color: white; padding: 2px 10px;" type="button" value="Factory Default"/>
---	---

Press the Reset Factory Default button to make VIP-1000 Series default.

4.5.2 Firmware Upgrade

Firmware Management

Firmware Upgrade

Local Upgrade	<input style="width: 100px; height: 20px;" type="text"/>	<input style="border: 1px solid #ccc; padding: 2px 10px;" type="button" value="Browse..."/>
<input style="border: 1px solid #0070C0; background-color: #0070C0; color: white; padding: 2px 10px;" type="button" value="Upgrade"/>		

Steps:

- Press Browse to browse the upgrade file;
- Press the Upgrade button to start upgrading;
- Log in web and then check whether the firmware is well upgraded by viewing the firmware version on the Status/Basic webpage.

4.5.3 Provision

- 1) Provisioning allows VIP-1000 Series to realize auto-upgrading and auto-configuration.
- 2) VIP-1000 Series supports 3 ways to provision: TFTP, HTTP and HTTPS.
 - Before testing or using TFTP, user should have TFTP Server and upgraded file and configuration file.
 - Before testing or using HTTP, user should have HTTP server and upgraded file and configuration file.
 - Before testing and using HTTPS, user should have HTTPS Server and upgraded file and configuration file. What's more, user should have CA Certificate (should be the same as HTTPS Server's), Client Certificate file and Private Key file.
- 3) User can upload CA Certificate file, Client Certificate file and Private Key file on the Equipment

Management/Cert Manage page.

Provision
Configuration Profile

Provision Enable	Enable <input type="button" value="▼"/>
Resync On Reset	Enable <input type="button" value="▼"/>
Resync Random Delay(sec)	40 <input type="text"/>
Resync Periodic(sec)	3600 <input type="text"/>
Resync Error Retry Delay(sec)	3600 <input type="text"/>
Forced Resync Delay(sec)	14400 <input type="text"/>
Resync After Upgrade	Enable <input type="button" value="▼"/>
Resync From SIP	Disable <input type="button" value="▼"/>
Option 66	Enable <input type="button" value="▼"/>
Option 67	Disable <input type="button" value="▼"/>
Config File Name	\$(MA) <input type="text"/>
User Agent	<input type="text"/>
Profile Rule	<input type="text"/>

Firmware Upgrade

Upgrade Enable	Enable <input type="button" value="▼"/>
Upgrade Error Retry Delay(sec)	3600 <input type="text"/>
Upgrade Rule	<input type="text"/>

Field Name	Description
Provision Enable	Enable provision or not.
Resync On Reset	Enable resync or not.
Resync Random Delay (sec)	Set the maximum delay for request for the synchronization file.
Resync Period (sec)	Set the period time for resync; default is 3600s.
Resync Error Retry Delay (sec)	If the last resync fails, VIP-1000 Series will retry resync after the 'Resync Error Retry Delay' time; default is 3600s.
Forced Resync Delay (sec)	If it's time to resync, but VIP-1000 Series is busy now, in this case, VIP-1000 Series will wait for a period of time; the longest is 14400s. When the time is out, VIP-1000 Series will be forced to resync.
Option 66	Enable option 66 or not.
Option 67	Enable option 67 or not.
Config File Name	Fill in the configuration file name. Configuration File Name is used for in-house provision mode only. When using TFTP with option 66 to realize provisioning, user must input the right configuration file name on VIP-1000 Series' webpage.
User Agent	The User Agent defines user agent behavior in the course of client provisioning.
Profile Rule	Fill in the URL of your configuration file.

Field Name	Description
Upgrade Enable	Enable Upgrade or not.
Upgrade Error Retry Delay(sec)	Set the time to retry upgrade, effective when the last upgrade failed.
Upgrade Rule	Fill in the URL of the upgraded file.

4.5.4 SNMP

SNMP Configuration

SNMP Configuration

SNMP Service	<input type="button" value="Enable ▾"/>
Trap Server Address	<input type="text" value="192.168.1.48"/>
Read Community Name	<input type="text" value="public"/>
Write Community Name	<input type="text" value="private"/>
Trap Community	<input type="text" value="trap"/>
Trap period interval(sec)	<input type="text" value="300"/>

Field Name	Description
SNMP Service	Enable SNMP or not.
Trap Server Address	Fill in the IP address or domain of trap server.
Read Community Name	A string -- it is used an express password between management process and the agent process.
Write Community Name	A string -- it is used an express password between management process and the agent process.
Trap Community	The community code in Trap.
Trap period interval (sec)	The interval period between traps.

4.5.5 Diagnosis

The VIP-1000 Series provides two ways to check the issue of network, one is Ping Test and the other is Traceroute Test.

Ping Test

- **Ping Test** -

Dest IP/Host Name	<input type="text" value="192.168.1.254"/>
WAN Interface	<input type="button" value="1_MANAGEMENT_VOICE_INTERNET_R_VID_"/>

```
PING 192.168.1.254 (192.168.1.254): 56 data bytes
64 bytes from 192.168.1.254: seq=0 ttl=64 time=1.927 ms
64 bytes from 192.168.1.254: seq=1 ttl=64 time=0.883 ms
64 bytes from 192.168.1.254: seq=2 ttl=64 time=0.849 ms
64 bytes from 192.168.1.254: seq=3 ttl=64 time=0.869 ms
64 bytes from 192.168.1.254: seq=4 ttl=64 time=7.991 ms

--- 192.168.1.254 ping statistics ---
5 packets transmitted, 5 packets received, 0% packet loss
round-trip min/avg/max = 0.810/2.502/7.991 ms
```

Traceroute Test

- **Traceroute Test** -

Dest IP/Host Name	<input type="text"/>
WAN Interface	<input type="button" value="1_MANAGEMENT_VOICE_INTERNET_R_VID_"/>

```
traceroute to 8.8.8.8 (8.8.8.8), 30 hops max, 38 byte packets
1 192.168.1.254 (192.168.1.254) 8.582 ms 0.865 ms 0.728 ms
2 210-61-134-254.HINET-IP.hinet.net (210.61.134.254) 16.510 ms 16.292 ms
3 tpe4-3302.hinet.net (168.95.229.86) 16.451 ms 17.083 ms 16.916 ms
4 72.14.222.94 (72.14.222.94) 17.649 ms 18.008 ms 18.332 ms
5 72.14.233.20 (72.14.233.20) 19.894 ms 19.858 ms 19.855 ms
6 209.85.250.229 (209.85.250.229) 28.920 ms 34.091 ms 28.469 ms
7 209.85.245.58 (209.85.245.58) 24.842 ms 24.992 ms 28.392 ms
```

4.5.6 Operation Mode

There are two modes on this page: Basic Mode and Advanced Mode

Management	Firmware Upgrade	Provision	SNMP	Diagnosis	Operating Mode
-------------------	-------------------------	------------------	-------------	------------------	-----------------------

Operating Mode Settings

- **Operating Mode Settings** -

Operating Mode	<input type="button" value="Advanced Mode"/> <input checked="" type="button" value="Basic Mode"/> <input type="button" value="Advanced Mode"/>
----------------	--

The default is advanced mode. This mode provides multiple WAN and VLAN functions, otherwise, basic mode does not support these functions.

Status	Network	SIP Account	Phone	Administration
WAN	VPN	DDNS	MAC Clone	

INTERNET

WAN

Connect Name	1_MANAGEMENT_VOICE_INTERNET_R_VID	Delete Connect
Service	1_MANAGEMENT_VOICE_INTERNET_R_VID	New Connection
IP Protocol Version	IPv4	Add new connection

Status	Network	SIP Account	Phone	Administration
WAN	VPN	DDNS	MAC Clone	

INTERNET

WAN

Connect Name	1_MANAGEMENT_VOICE_INTERNET_R_VID
Service	MANAGEMENT_VOICE_INTERNET
IP Protocol Version	IPv4
WAN IP Mode	Static
VLAN Mode	Trunk
VLAN ID	100 (1-4094)
802.1p	0

Appendix A -- Frequently Asked Questions

Q1: No operation after powering on.

A1: Check if the power adapter is properly connected.

If applicable, check if the PoE (Power over Ethernet) switch behind the IP phone is set correctly.

Note only VIP-1000PT supports PoE function.

Q2: What's the default setting?

A2: The default IP is 172.16.0.1; default username and password are admin and 123.

Q3: No Dial Tone?

A3: Check if the handset cord is properly connected.

Q4: Cannot Make a Call.

A4: Check the status of your SIP registration status or contact your administrator, supplier, or ITSP for more information or assistance.

Q5: Cannot Receive Any Phone Call.

A5: Check the status of your SIP registration status, or contact your administrator, supplier, or ITSP for more information or assistance

Q6: No voice during an active call.

A6: Check if the servers support the current audio codec type, or contact your administrator, supplier, or ITSP for more information or assistance.

Q7: Cannot connect to the configuration Website.

A7: Check if the Ethernet cable is properly connected.

Check if the URL is correctly written. The format of URL is: http:// the Internet port IP address

Check if your firewall/NAT settings are correct.

Check if the version of IE is IE8, or use other browsers such as Firefox or Mozilla, or contact your administrator, supplier, or ITSP for more information or assistance.

Q8: Forget the Password.

A8: Default password of website and menu is null.

If user changed the password and then forgot it, you cannot access the configuration website or the menu items which need a password.

Solution:

Please perform factory default by IVR: Pick up the handset and press **** into IVR. Press 3 to perform factory reset. The default password is admin (the key is 23646#). When done, please press 4 to perform reboot, which also needs the password. When done, hang up the handset and VIP-1000 Series will restore the default setting.