



User's Manual

Enterprise HD PoE IP Phone (2-Line)

VIP-2020PT



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CE mark Warning

The 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 Stand by 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.



VIP-2020PT

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

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Revision

User's Manual for PLANET SIP PoE IP Phone: Model: VIP-2020PT Rev: 1.0 (2013, Aug) Part No. EM-VIP-2020PT_v1.0



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1 Introduction



Cost-effective, High-performance PoE VoIP Phone

To build high-performance VoIP communications at a low cost, PLANET now introduces the latest member of its IP Phone family, the VIP-2020PT enterprise-class 2-Line PoE IP Phone. It complies with IEEE 802.3af PoE interface for flexible deployment. The VIP-2020PT makes it simple for the enterprise featuring voice and data system or expanding voice system to new locations. It helps the company to save money on long distance calls; for example, the remote workers can dial in through a Unified VoIP Communication System just like an extension call but no long distance charge would occur. The VIP-2020PT also allows 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.



VIP-2020PT



Standard Compliance

Compliant with the Session Initiation Protocol 2.0 (RFC 3261), the VIP-2020PT 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

Enhanced, Full-Featured Business IP Phone

The VIP-2020PT is a full-featured enhanced business IP Phone that addresses the communication needs of the enterprises. It provides 2 voice lines and dual 10/100Mbps Ethernet. Furthermore, the VIP-2020PT delivers user-friendly design containing a 128×48 Graphic LCD with white backlight, 2 Line keys and 4 soft keys. It supports 5 ext. consoles with each consisting of 26 keys .

The VIP-2020PT supports 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, DTMF Relay, In-Band, Out-of-Band (RFC 2833) and SIP INFO, among others. Besides office use, the VIP-2020PT is also the ideal solution for VoIP service offered by Internet Telephony Service Provider (ITSP).





Secure, High-Quality VoIP Communication

The VIP-2020PT supports 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), 802.1Q VLAN tagging, and IP TOS technology. Using voice and data VLAN can easily separate the data and voice and thus maintain the best quality.

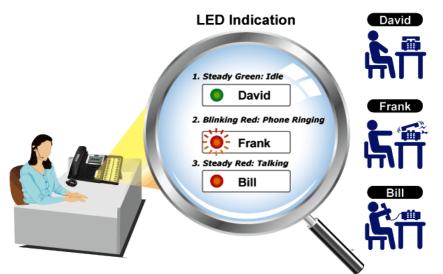


Professional Application

The VIP-2020PT supports Busy Lamp Field (BLF) function that, via the lights on the phone, enables users to easily identify the status of other phones which connected to the same IP PBX, such as busy, idle, ringing, etc. The connected IP PBX must also support BLF feature. The BLF function is helpful for a receptionist on the front desk to route all incoming calls smoothly.



BLF (Busy Lamp Field)



1.1 Features

Highlights

- Supports SIP 2.0 (RFC3261)
- Supports IAX2, IAX2 line call
- SIP supports 2 SIP lines.
- IEEE 802.3af Power over Ethernet compliant
- Supports multiple road call waiting in line
- Supports HD voice
- Supports SRTP and BLF

Advantageous Applications

- SIP supports SIP domain, SIP authentication (none, basic, MD5), DNS name of server, Peer to Peer/ IP call
- DTMF Relay: support inband, SIP info, RFC2833
- 9 kinds of ring types and 3 user-defined music rings
- Large dot matrix LCD display and soft keys make user easier to use
- Supports headset jack- RJ9
- 4 DSS Keys
- Supports 5 ext. consoles with each consisting of 26 keys
- Soft keys programmable; function keys programmable
- Multilanguage realizes localization



VIP-2020PT

- Echo cancellation: Supports G.168, and Hands-free can support 96ms, Hands-free Speaker Phone
- Supports Voice Gain Setting, VAD, CNG
- Full duplex hands-free speaker phone
- Hands-free headset ringing choice
- Voice codec setting for each SIP line

SIP Applications

- Call forward
- Transfer (blind/attended)
- Holding
- Waiting
- 3-way conference
- Paging and Intercom
- Call park
- Call pickup
- Join call
- Redial and click to dial
- Secondary dialing automatically
- Incoming calls /outgoing calls / missed calls. Each supports 100 records.
- Supports Phonebook 500 records
- Supports SMS and Speed Dial
- Supports XML phonebook / browser

Call Control Features

- Flexible dial map
- Hotline
- Empty calling no.
- Reject service
- Black list for reject authenticated call
- White list
- Limit cal
- Do not disturb
- Caller ID
- CLIR (reject the anonymous call)
- CLIP (make a call with anonymous)
- Dial without register



Network Features

- WAN/LAN: 10/100M Ethernet ports, supports Route and Bridge modes.
- Supports bridge working as hub
- Supports PPPoE for xDSL and PoE
- Supports 802.1 VLAN (Voice VLAN / data VLAN)
- Supports basic NAT and NAPT
- NAT transverse: support STUN client
- Supports DHCP client on WAN
- Supports DHCP server on LAN
- Supports main DNS and secondary DNS server.
- Supports DNS Relay, SNTP Client, Firewall, open VPN
- Supports VPN (L2TP) and DMZ
- Network tools in telnet server: including ping, trace route, telnet client

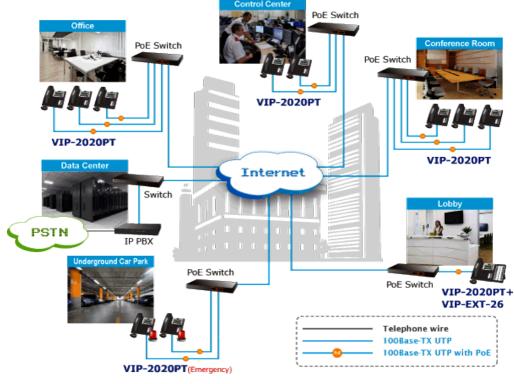
Maintenance and Management

- Web, telnet and keypad management
- Management with different account right
- Upgrade firmware through POST mode and HTTP, FTP or TFTP
- Supports DHCP option66 auto provisioning
- Telnet remote management/upload/ download setting file
- Safe mode provide reliability
- Supports Auto Provisioning to upgrade firmware or configuration file with HTTPS
- Supports TR-069(optional) and Syslog



VIP-2020PT

1.2 Application



Enterprise IP PBX Deployment of VIP-2020PT



1.3 Product Specifications

Due dust	VIP-2020PT	
Product	Enterprise HD PoE IP Phone (2-Line)	
Hardware		
Lines (Direct Numbers)	2-Line enterprise-class IP phone	
Display	75 x 28 mm 128X48 Graphic LCD with blue backlight	
	2 line keys include in 4 DSS keys	
Feature Keys	4 Soft Keys	
	12 dialing buttons (0~9, *, #)	
	12 fixed function buttons	
	Two 10/100BASE-T RJ-45 Ethernet ports (IEEE 802.3 / 802.3af Power over	
	Ethernet compliant)	
	Handset: RJ-9 connector	
Physical Interfaces	Headset: RJ-9 connector	
	RJ-11 EXT connector	
	DC power jack:	
	Built-in speakerphone and microphone	
Protocols and Standard		
	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)	
Data Networking	TCP (RFC 793)	
	User Datagram Protocol UDP (RFC 768)	
	User Datagram Protocol UDP (RFC 768)	
	User Datagram Protocol UDP (RFC 768) Real Time Protocol RTP (RFC 1889, 1890)	
	User Datagram Protocol UDP (RFC 768) Real Time Protocol RTP (RFC 1889, 1890) Real Time Control Protocol (RTCP) (RFC 1889)	



	VIP-2020P1
	Simple Network Time Protocol (SNTP) (RFC 2030)
	Backward compatible with RFC 2543
	Session Timer (RFC 4028)
	SDP (RFC 2327)
	NAPTR for SIP URI Lookup (RFC 2915)
	SIP version 2 (RFC 3261, 3262, 3263, 3264)
	SIP supported in NAT networks [including STUN (RFC 3489)]
	Message Waiting Indicator (RFC 3842)
	Voice algorithms:
	- G.711 (A-law and μ -law)
	- G.7231 high/low
	- G.729a/b
Voice Gateway	- G.722.1
	- G.726
	Dual-Tone Multi-Frequency (DTMF), In-Band and Out-of-Band (RFC 2833)
	(SIP INFO)
	Voice Activity Detection (VAD) with Silence Suppression
	Adaptive Jitter Buffer Management
	Comfort Noise Generation
	Echo Cancellation Message
Provisioning, Administration, and Maintenance	Integrated web server provides web-based administration and configuration
	Telephone keypad configuration via display menu/navigation
	Automated provisioning and upgrade via HTTPS, HTTP, TFTP
	User Authentication for configuration pages
	Local and Remote Syslog (RFC 3164)
	SNTP Time Synchronization
	TR069
Features	



Advantageous Applications	
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	Supports IAX2, IAX2 line call
	SIP supports 2 SIP lines.
	IEEE 802.3af Power over Ethernet (PoE) compliant
	Supports multiple road call waiting in line
	Supports HD voice
	Supports SRTP and BLF
	SIP supports SIP domain, SIP authentication (none, basic, MD5), DNS name
	of server, Peer to Peer/ IP call
	DTMF Relay: support inband, SIP info, RFC2833
	9 kinds of ring types and 3 user-defined music rings
	Large dot matrix LCD display and soft keys make user easier to use
	Supports headset jack- RJ9
	4 DSS Key
	Support 5 ext. consoles with each consisting of 26 keys
	Soft keys programmable; function keys programmable
	Multilanguage realizes localization
	Echo cancellation: Supports G.168, and Hands-free can support 96ms,
	Hands-free Speaker Phone
	Supports Voice Gain Setting, VAD, CNG
	Full duplex hands-free speaker phone
	Hands-free headset ringing choice
	Voice codec setting for each SIP line



	VIP-2020P1	
SIP Applications	Call forward	
	Transfer (blind/attended)	
	Holding	
	Waiting	
	3-way conference	
	Paging and Intercom	
	Call park	
	Call pickup	
	Join call	
	Redial and click to dial	
	Secondary dialing automatically	
	Incoming calls /outgoing calls / missed calls. Each supports 100 records.	
	Support Phonebook 500 records	
	Support SMS and Speed Dial	
	Support XML phonebook/browser	
Call Control Features	Flexible dial map	
	Hotline	
	Empty calling no.	
	Reject service	
	Black list for reject authenticated call	
	White list	
	Limit cal	
	Do not disturb	
	Caller ID	
	CLIR (reject the anonymous call)	
	CLIP (make a call with anonymous)	
	Dial without register	



	VIP-2020PT
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	Management with different account right
	Upgrade firmware through POST mode and HTTP, FTP or TFTP
	Supports DHCP option66 auto provisioning
	Telnet remote management/upload/ download setting file
	Safe mode provide reliability
	Supports Auto Provisioning to upgrade firmware or configuration file with
	нттрѕ
	Supports TR-069(optional) and Syslog
Environments	
Power Requirements	5V DC, 1A IEEE 802.3af
Operating Temperature	0 ~ 40 degrees C
Operating Humidity	10 ~ 65% (non-condensing)
Weight	950 g
Dimensions (W x D x H)	290 X 260 X 60 mm
Emission	CE, FCC, RoHS
Connectors	Two 10/100Mbps Ethernet, RJ-45 RJ-9 handset / headset connector RJ-11 EXT DC power jack



1.4 Physical specifications and packaging

Physical Specifications

Dimensions

Dimensions	290(L) X 260 (W) X 60 (H) mm
Net Weight	950g(without package)

BASIC PACKAGING

- SIP IP Phone unit
- Power Adapter
- Quick Installation Guide
- CD-ROM containing the on-line manual.
- RJ-45 cable x1
- Stand x 1



1.5 Keypad

Keypad, LED, and function key definitions



Keypad Description

Кеу	Key name	Function Description
	Navigation	Assists you in selecting an item that you want to process under the menu by pressing the Up, Down, Right or Left button. Press the center button to save.
HISTORY	Directory	Access to phone book by checking the record list, adding new records or revising the record. When checking the phone book record, press this key again to return to idle mode.
Ľ	Mute	Press this key in calling mode and you can hear the other side, but the other side cannot hear you.
+ -	Volume -/+	Turn down or turn up the volume by pressing the "-" key or the "+" key.



REDIAL	Redial	 In the hook off /hands-free mode, use the key to dial the last call number; In stand-by mode, it has a function to check the Outgoing Call.
I())	Hands-free	Make the phone into hands-free mode.
	Indicator light	Blinking light indicates there is an incoming call.
		Key combination includes functions such as
Soft key 1/2/3/4		History/Directory/DND/Menu/Del/Redial/Send/ Quit/Answer/Divert/Reject/Hold/Transfer/Conf/Close and so
		on.
HISTORY	History	View the Missed Calls, Incoming Calls and Dialed Calls.
1 2 3 4 5 6 7 8 9 * 0 #	Digital keyboard	Inputting the phone number or DTMF.
	DSS keys	User can configure them on the web page.



Rear view and panel descriptions



Keypad Description

Port	Port name	Description
	Power switch	Input: 5V AC, 1A
	WAN	10/100M Connect it to Network
	LAN	10/100M Connect it to PC
	External console interface	Port type: RJ-11 direct connector
	Headset	Port type: RJ-9 connector
	Handset	Port type: RJ-9 connector



1.6 Icon introduction

lcon	Description			
\longrightarrow	Call out			
***	Call in			
	Call hold			
88	Auto answer			
<u>.</u>	Call mute			
1	Contact			
DND	DND(Do not Disturb)			
u()	In hand-free mode			
<i>c</i>	In handset mode			
Δ	In headset mode			
\square	SMS			
널	Missed call			
C *	Call forward			

1.7 LED introduction

Table 1	Programmable	Kev L	ED for BLF
10010 1	i logiannaoio		

LED Status	Description			
Steady green	The object is in idle status.			
Slow blinking red	The object is ringing.			
Steady red	The object is active.			
Fast blinking red	The object failed.			
Off	No subscription			



Table 2 Programmable key LED for Presence				
LED Status	Description			
Steady green	The object is online.			
Slow blinking red	The object is ringing.			
Steady red	The object is active.			
Fast blinking red	The object failed.			
Off	No subscription			

Table 3 Programmable key LED for line

LED Status	Description			
Steady green	The account is active.			
Fast Blinking green	There is an incoming call to the account.			
Slow Blinking green	n The call is on hold.			
Slow Blinking red	Registration is unsuccessful.			
Off	The line is not applied or is idle.			

Table 4 Programmable key LED for MWI

LED Status	Description			
Blinking green	There are new voice mails.			
Off	There is no new voice mail.			

Table 5 Power Indication LED

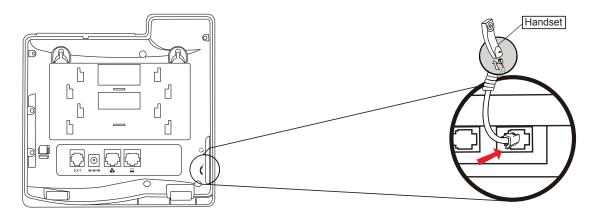
LED Status	Description
Steady red	Power on.
Fast Blinking red	There is an incoming call.
Off	Power off.



2 Initial Connection and Login

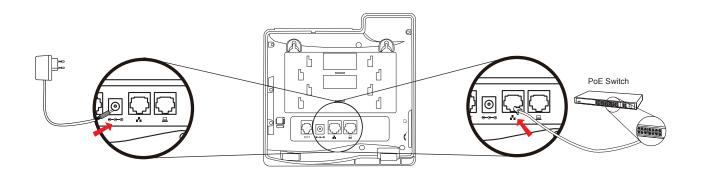
Step 1. Handset Connection

Plug one end of the handset cord into the handset and the other end into the handset jack



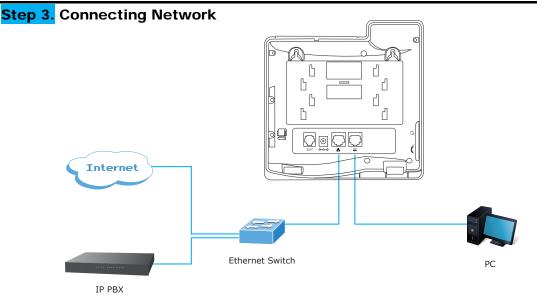
Step 2. Connecting Power System

The VIP-2020PT can be powered either by external AC/DC adapter or by connecting to an IEEE802.3af/at PSE device such as 802.3af injector/hub or 802.3af/at POE switch. Once the VIP-2020PT is powered, the LCD screen will prompt for POST.



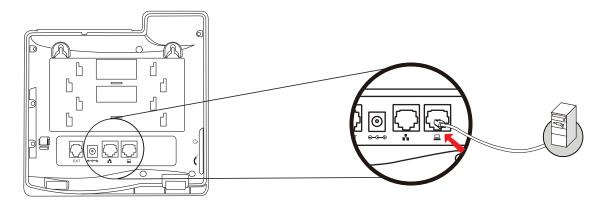
Note1: Use only the power adapter shipped with the unit to ensure correct functionality Note2: Only WAN supports POE.





Step 4. Computer Network Setup

Set your computer's IP address to 192.168.0.x, where x is a number between 2 to 254 (except 1 where is being used for the phone by default). If you don't know how to do this, please ask your network administrator. Connect your PC to VIP-2020PT PC port.



Step 5. Login Prompt

Use web browser (Internet Explorer 6.0 or above) to connect to 192.168.0.1 (type this address in the address bar of web browser).

You'll be prompted to input user name and password: admin and 123

User:	1
Password:	
Language:	English 💟



3 Basic Functions

3.1 Making a call

3.1.1 Call Device

User can make a phone call via the following devices:

- 1. Pick up the handset, C icon will be shown on the idle screen.
- 2. Press the Speaker button, 📫 icon will be shown on the idle screen.
- 3. Press the Headset button if the headset is connected to the Headset Port in advance.

The icon will be shown on the idle screen.

User can also dial the number first, and then choose the method user will use to speak to the other party.

3.1.2 Call Methods

User can press an available line button if there is more than one account, then

- 1. Dial the number User wants to call.
- 2. Press History softkey. Use the navigation buttons to highlight User choice (press Left/Right button to choose Missed Calls, Incoming Calls and Outgoing Calls.
- 3. Press the R/SEND button to call the last number called.

4. Press the programmable keys which are set as speed dial button. Then press the Send button or Dial softkey to make the call if necessary.

3.2 Answering a call

Answering an incoming call

- If User is not on another phone, lift the handset to use, or press the Speaker button/ Answer softkey to answer using the speaker phone, or press the headset button to answer the headset.
- 2. If User is on another call, press the answer softkey.



VIP-2020PT

During the conversation, User can alternate between Headset, Handset and Speaker phone by pressing the corresponding buttons or picking up the handset.

3.3 DND

Press DND softkey to activate DND Mode. Further incoming calls will be rejected and the display shows: DND icon. Press DND softkey twice to deactivate DND mode. User can find the incoming call record in the Call History.

3.4 Call Forward

This feature allows User to forward an incoming call to another phone number. The display shows \Box^+ icon.

The following call forwarding events can be configured:

Off: Call forwarding is deactivated by default.

Always: Incoming calls are immediately forwarded.

Busy: Incoming calls are immediately forwarded when the phone is busy.

No Answer: Incoming calls are forwarded when the phone is not answered after a specific period.

To configure Call Forward via Phone interface:

1. Press Menu \rightarrow Features \rightarrow Enter \rightarrow Call Forwarding \rightarrow Enter.

- 2. There are 4 options: Disabled, Always, Busy, and No Answer.
- 3. If User chooses one of them (except Disabled), enter the phone number User wants to forward to receiving party. Press Save to save the changes.

3.5 Call Hold

1. Press the Hold button or Hold softkey to put User active call on hold.

2. If there is only one call on hold, press the hold softkey to retrieve the call.

3. If there are more than one call on hold, press the line button, and the Up/Down button to highlight the call, and then press the Un-hold button to retrieve the call.



3.6 Call Waiting

1. Press Menu \rightarrow Features \rightarrow Enter \rightarrow Call Waiting \rightarrow Enter.

- 2. Use the navigation keys to activate or deactivate call waiting.
- 3. Then press the Save to save the changes.

3.7 Mute

Press Mute button during the conversation, icon $extsf{W}$ will be shown on the LCD. Then the called will not hear User, but User can hear the called. Press it again to get the phone to normal conversation.

3.8 Call transfer

1. Blind Transfer

During talking, press the key "Transf", and then dial the number that User wants to transfer to, and finish by pressing "#". Phone will transfer the current call to the third party. After finishing transfer, the call User talks to will be hanged up. User cannot select SIP line when phone transfers call.

2. Attended Transfer

During talking, press the key "Transf", then input the number that User wants to transfer to and press Send. After that third party answers, then press Transfer to complete the transfer. (User needs to enable call waiting and call transfer first). If there are two calls, User can just talk to one, and keep hold to the other one. The one who is keeping hold cannot speak to User or hear from User. In other words, if user wants to invite the third party during the call, they can press Conf to make calls mode in conference mode. If user wants to stop conference, user can press Split. (User must enable call waiting and three way call first).



The server that user uses must support RFC3515 or it might not be used.

3. Alert Transfer

During the talking, press Transf first, and then press Send after inputting the number that User wants to transfer. Users are waiting for connection, now, press Transf and the transfer will be done. (To use this feature, User needs to enable call waiting and call transfer first).



3.9 3-way conference call

- 1. Press the Conf softkey during an active call.
- 2. The first call is placed on hold. Then User will hear a dial tone. Dial the number to conference in, and then press Send key.
- 3. When the call is answered, press Conf and add the first call to the conference.
- 4. If User wants to release the conference, press Split key.

3.10 Multiple-way call

If user has 2 line calls and wants to invite the three party during the call, they can press Sofetkey-Conf or Softkey-XFER "New Call", press OK, enter the number ,then press Send and wait for the other party to answer. When there are multiple-way calls, User can press an arrow key to select a call.



4 Advanced Functions

4.1 Call pickup

Call pickup is implemented by simulating pickup function of PBX; that is, when A calls B, B rings but no answer, at this moment, C can hook off and input an appointed prefix plus B's number, pick up A's call and talk with A.

The following chart shows how to configure an appointed prefix in dial peer to have call pick up function.

Number	Destination	Port	Mode	Alias	Suffix	Del Length
*1*T	0.0.0	5060	SIP	rep:pickup	no suffix	3

1 means appointed prefix code. After making the above configuration, C can dial *1* plus B's phone number to pick up A's call. User can set prefix at random, in case it does not affect the current dialing rules.

4.2 Joint call

When B is calling C, A can join in the existing call by inputting an appointed prefix numbers plus B or C number, if B or C also supports joint call.

The following chart shows how to configure an appointed prefix in dial peer to have joint call function.

Number	Destination	Port	Mode	Alias	Suffix	Del Length
*2*T	0.0.0	5060	SIP	rep:joincall	no suffix	3

2 means appointed prefix code. After making the above configuration, A can dial *2* plus B or C number to join B and C's call. User can set prefix at random, in case it does not affect the current dialing rules.

4.3 Redial / Un-redial

If B is in busy line when A calls B, A will get the notice: busy, please hang up. If A wants to connect B as soon as B is in idle, he can use redial function at the moment and he can dials an appointed prefix number plus B's number to realize redial function.

What is redial function? A can't build a call with B when B is in busy, then A will subscribe to B's



calling mode at 60 second intervals. Once B is available, A will get reminder of rings to hook off, while a hooks off, A will call B automatically. If at this time A is occupied temporarily and unwilling to contact B, A also can cancel the redial function by dialing an appointed prefix plus B's number before making the redial function.

Number	Destination	Port	Mode	Alias	Suffix	Del Length
*3*T	0.0.0.0	5060	SIP	rep:redial	no suffix	3
*4*T	0.0.0.0	5060	SIP	rep:unredial	no suffix	3

3 is appointed prefix code. After making the above configuration, A can dial

3 plus B's phone number to make the redial function.

4 is appointed prefix code. After configuration, A can dial *4* to cancel redial function. User can set prefix at random, in case it does not affect the current dialing rules.

4.4 Click to dial

When user A browses on an appointed Web page, user A can click to call user B via a link (this link to user B), then user A's phone will ring, after A hooks off, the phone will dial to B.



It needs an external software that supports click to dial.

4.5 Call back

This function allows User to dial out the last phone call User receives.

4.6 Auto answer

When there is an incoming call unanswered, the phone will answer the call automatically.

4.7 Hotline

User can set hotline number for every sip, and then enter the dialer interface and after Warm Line Time, the phone will call out the hotline number automatically.

4.8 Applications

4.8.1 SMS

1. Press Menu \rightarrow Applications \rightarrow Enter \rightarrow SMS \rightarrow Enter.



- 2. Use the navigation keys to highlight the options. User can read the message in the Inbox/Outbox.
- 3. After viewing the new message, User can press Reply to reply the message, and use the 2aB softkey to change the Input Method. When entering the reply message, press OK, and then use the navigation keys to select the line from which User wants to send, then Send.
- 4. If User wants to write a message, User can press New and enter message. Use the 2aB softkey to change the Input Method. When User inputs the message User wants to send, press OK, then use the navigation keys to select the line from which User wants to send, then Send.
- 5. If User wants to delete the message, after viewing the message, press Del, then User has three options to choose from: Yes, All, No.

4.8.2 Memo

User can add some memos to record some important things to remind User.

```
Press Menu \rightarrow Application \rightarrow Memo \rightarrow Enter \rightarrow Add.
```

There are some options to configure: Mode, Date, Time, Text, Ring. When the configuration is completed, press Save.

4.8.3 Ping

- 1. Input the IP User wants, then User press "start". User can also press "delete" for modifying IP and change the input method when User inputs errors.
- 2. User waits till "OK" is shown on LCD, meaning Ping is successful, when User finishes entering the IP. Otherwise, Ping fails.

4.8.4 Voice Mail

1. Press Menu \rightarrow Application \rightarrow Voice Mail \rightarrow Enter.

2. Use the navigation keys to highlight the line for which User wants to set, press Edit, and use the navigation key to turn on the mode, and then input the number. Press 2aB softkey to choose the proper input method.



- 3. Press Save to save the change.
- 4. To view the new voicemail, press the Voicemail softkey directly. Press Dial, and then User may be prompted to enter the password. User can listen to new and old messages.

4.9 Programmable Key Configuration

The phone has 4 programmable keys which are able to set up many functions. The following list shows the functions User can set on the programmable keys and provides a description for each function. The default configuration for each key is N/A which means the key hasn't been set for any functions.

Set the type as Memory Key

Press Menu \rightarrow **Settings** \rightarrow **Basic Settings** \rightarrow **Enter** \rightarrow **Keyboard** \rightarrow **DSS Key Settings**, User have two options: Line Key Settings and Function Key Settings. Choose one User wants to make the assignment. Use the navigation key to choose the type as memory key. In the Dial field, User has some options, such as Normal, Speed Dial, Intercom, BLF, Presence, MWI and Call Park.

Speed dial

User can configure the key as a simplified speed dial key. This key function allows User to easily access User most dialed numbers.

Intercom

User can configure the key for Intercom code and it is useful in an office environment as a quick access to connect to the operator or the secretary.

BLF (Busy Lamp Field)

BLF is also called "Busy lamp field", and it is used to prompt the user to pay attention to the state of the object that has been subscribed, and used to cooperate with the server to pick up the phone call. User can configure the key for Busy Lamp Field (BLF) which allows User to monitor the status (idle, ringing, or busy) of other SIP accounts. User can dial out on a BLF configured key. Please refer to "LED Instructions" for more details about the LED status in different situations.



In the Web interface, User can also set the pickup number to activate the pickup function. For example, if User sets the BLF number as 212, and the pickup number is 189, then when there is an incoming call to 212, press the BLF key, it will call out the 189 automatically to pick up the incoming call on 212.



Presence

Presence is called present, and compared to the BLF, it can also check whether object is online.



User can subscribe to the BLF and presence station of the same number at the same time.

MWI (Message-Waiting Indicator)

When the key is configured as MWI, User is allowed to access voicemail quickly by pressing this key.





Call Park

- User needs to set a server number when User has set what represents Call park. If User has a call but busy to receive the call, User can press the key and hear a number. Then User can choose another phone and input this number, so User can directly recover call.
- 2. Set the type as Line

User can set these keys as line keys. When pressing it, it will enter dialer interface.

3. Set the type as Key Event

User can set these keys as Key Event, and the subtype has many options. Choose one and it will have corresponding function.

- None
- Auto Redial Off
- Auto Redial On
- Call Back
- Call Forward
- DND
- Flash
- Headset
- History
- Hold
- Hot Desking: Pressing the key, User can clear all sip information and register your sip information.
- Join
- Lock: Pressing the key, User can lock the keyboard.
- Memo
- MWI
- Phonebook
- Pickup
- Prefix
- Redial
- Release: Pressing the key, User can end the call.
- SMS
- Transfer
- Power Light
- Hot Desking
- 4. Set the type as DTMF

User can configure the key as DTMF. This key function allows User to easily dial or edit dial number.

5. Set the type as URL



User needs to match an XML Phonebook address. By pressing the button, User can directly access the corresponding remote phonebook.

6. Set the type as BLF List Key

It needs the cooperation with the Broadsoft server. The traditional BLF is that every number will need to be subscribed, so if the numbers that are subscribed are so many, it will cause obstruction. However, BLF List Key will put the numbers that are needed to be subscribed in a group. The phone uses the URL of the group to subscribe and analyze the specific information of each number such as number, name, state and so on according to the notifications from the server. Then set the idle Memory key as BLF List Key, later if the state of an object changes, the corresponding LED will change.



5 Other Functions

5.1 Auto Handdown

1. Press Menu \rightarrow Features \rightarrow Enter \rightarrow Auto Handdown \rightarrow Enter.

- 2. Set the Mode Enable through the navigation key, then set Time, unit is minute, then press Save.
- 3. When the call ends, after the time that User has set, the phone will return to the idle mode.

5.2 Ban Anonymous Call

1. Press Menu → Features → Enter → Ban Anonymous Call → Enter.

- 2. Choose which sip User want to enable Ban Anonymous Call, and then press Enter, choose Enabled or disabled through navigation key.
- 3. If User chooses Enabled, the others can't call the phone by anonymous. If User chooses Disabled, the others can call the phone by anonymous.

5.3 Dial Plan

Press Menu → Features → Enter → Dial Plan → Enter.

2. The following plans User can set: Press # to Send, Timeout to Send, Timeout, Fixed Length Number, Press # to Do BXFER, BXFER On-hook, AXFER On-hook. User can enable or disable each dial plan.

5.4 Dial Peer

1. Press Menu \rightarrow Features \rightarrow Enter \rightarrow Dial Peer \rightarrow Enter.

- Press Add to enter the Edit interface, and then input some information. For example, Number: 1T, Dest.: 0.0.0.0, Port: 5060, Mode: SIP, Alisa: all:3333, Suffix: no suffix, Del Len: 0. Then press Save.
- 3. Input 1+number (1234) in the dial interface, User can dial out 3333. User can refer to 8.3.3.4 DIAL PEER.



5.5 Auto Redial

- 1. Press Menu \rightarrow Features \rightarrow Enter \rightarrow Auto Redial \rightarrow Enter.
- 2. Choose Mode Enabled or Disabled through the navigation key. If User chooses Enable, User also needs to set Interval and Times, and then press Save.
- 3. After enabling auto redial to call out someone, if he is in busy, it will pop up a prompt box whether to auto redial. Press OK and the phone will call out to him according the Interval and Time that User has set.

5.6 Call completion

- 1. Press Menu → Features → Enter → Call Completion → Enter.
- 2. Enable the function through the navigation key, and then save.
- Call out others. If he is in busy, it will pop up a prompt Call Completion Waiting number. Press OK, when he is in idle. It will pop up a prompt Call Completion Call number. Press OK and the phone will call out the number automatically.

5.7 Ring From Headset

1. Press Menu \rightarrow Features \rightarrow Enter \rightarrow Ring From Headset \rightarrow Enter.

2. Enable this function through the navigation key. The phone connects to the headset. When the phone has an incoming call, it will ring from the headset.

5.8 Power Light

1. Press Menu → Features → Enter → Power Light → Enter.

2. Enable this function through the navigation key.

5.9 Hide DTMF

1. Press Menu \rightarrow Features \rightarrow Enter \rightarrow Hide DTMF \rightarrow Enter.

2. Through the navigation key, choose: Disabled, All, Delay, Last Show. When User set up a call with others and need to input the DTMF, the DTMF will show as User has set.



5.10 Ban Outgoing

1. Press Menu → Features → Ban Outgoing → Enter.

2. Enable this function; User cannot call any number.

5.11 Pre Dial

- 1. Press Menu \rightarrow Features \rightarrow Pre Dial \rightarrow Enter.
- 2. Enable this function and User will realize Pre-Dial function.

5.12 Password Dial

1. Press Menu → Features → Enter → Password Dial → Enter.

2. Enable this function and User can also set Prefix and Length. For example, User wants to call out 1234567 and User sets Password Dial Prefix 123 and Password Length 3, then enter the dial interface and input 1234567, and then the screen will show 123***7.

5.13 Action URL & Active URI

- 1. Action URL: The action that the phone carries out. For example, opening DND can produce one URL, and then the phone can send the HTTP to get the URL to PC. The phone can report the action to the PC.
- Active URI: Enter the web page of the phone, PHONE → FEATURE, input Active URI Limit IP. User can input internet server (e.g. PC'IP), PC can send one URL to the phone. The phone will produce one action; for example, open DND, so PC can control the phone.

5.14 Push XML

Enter the web page of the phone \rightarrow PHONE \rightarrow FEATURE, input Push XML Server(e.g. PC'IP), then PC can push text, SMS, phonebook, advertisement, execute, etc. To phone to update the message or the phone makes an action.



6 Basic settings

6.1 Keyboard

- 1. Press Menu → Settings → Enter → Basic Settings → Enter → Keyboard → Enter.
- 2. There are four items: DSS Key settings, Programmable Keys, Desktop Long Pressed, SoftKey, and User can set up respectively on them. Press the key Enter to the interface, then use the navigation keys to choose the function for the key according to User's requirements.
- 3. Press the key OK to save.

6.2 Screen Settings

- Press Menu → Settings → Enter → Basic Settings → Enter → Screen Settings → Enter.
- 2. User can set Contrast, Contrast Calibration and Backlight by pressing Enter and use the navigation keys to set, and then press the key Save.

6.3 Ring Settings

- Press Menu → Settings → Enter → Basic Settings → Enter → Ring Settings →
 Enter.
- 2. User can set Ring Volume and Ring Type by pressing Enter and use the navigation keys to set, and then press the key Save. In the Ring Type, the default system rings have nine and the custom ringtones have three that can be set through the web page.

6.4 Voice Volume

- Press Menu → Settings → Enter → Basic Setting → Enter → Voice Volume → Enter.
- 2. Use the navigation keys to turn down or turn up the voice volume, and then press the key Save.



6.5 Time & Date

- Press Menu → Settings → Enter → Basic Settings → Enter → Time & Date → Enter.
- 2. User has two options to choose from: Auto and Manual. Use the navigation keys to choose, and then press Save.

6.6 Greeting Words

- Press Menu ->Settings → Enter → Basic Settings → Enter → Greeting Words → Enter.
- 2. User can enter the message and press Save. It will display on the phone screen when the phone starts up.

6.7 Language

- 1. Press Menu → Settings → Enter → Basic Settings → Enter → Language → Enter.
- 2. The VIP-2020PT supports three languages. User can use the navigation keys to choose. The default two languages are English and Chinese.



7 Advanced Settings

7.1 Accounts

Press Menu \rightarrow Enter \rightarrow Advanced settings, and then input the password to enter. The default password is **123**. User can set it through the web page. Then choose Account and then press Enter. User can do some sip settings.

7.2 Network

Press Menu \rightarrow Enter \rightarrow Advanced settings, and then input the password to enter. Then choose Network and press Enter. User can do network settings by refering to 2.2.1 Network settings.

7.3 Security

Press Menu \rightarrow Enter \rightarrow Advanced settings, and then input the password to enter. Then choose Security to configure Menu Password, Key lock Password, Key lock Status and whether to ban Outgoing.

7.4 Maintenance

Press Menu \rightarrow Enter \rightarrow Advanced settings, and then input the password to enter the interface. Then choose Maintenance and press Enter. User can configure Auto Provision, Backup, and Upgrade.

7.5 Factory Reset

Press Menu \rightarrow Enter \rightarrow Advanced settings, and then input the password to enter the interface. Then choose Factory Reset and press Enter. User can choose Yes or No.



8 Web Configuration

8.1 Introduction of configuration

8.1.1 Ways to configure

The VIP-2020PT has three different ways for different users.

- Use phone keypad.
- Use web browser (recommended way).
- Use telnet with CLI command.

8.1.2 Password Configuration

There are two levels to access to phone: root level and general level. User with root level can browse and set all configuration parameters, while user with general level can set all configuration parameters except SIP (1-2) or IAX2's that some parameters cannot be changed, such as server address and port. User will have a different access level with different user name and password.

- Default user with root level:
 - User Name: admin
 - Password: 123

The default password of phone screen menu is 123.

8.2 Setting via web browser

When this phone and PC are connected to network, enter the IP address of the WAN port in this phone as the URL (e.g. http://xxx.xxx.xxx/ or http://xxx.xxx.xxx/).

If User does not know the IP address, User can look it up on the phone's display by pressing Status button.

The login page is shown below:



VIP-2020PT

PLANET	
User:	
Password:	
Language:	English 💌 Logon

After User configures the IP phone, User needs to click Save button in config under Maintenance on the left side of the screen to save User configuration. Otherwise, the phone will lose User modification after power is off and on.

8.3 Configuration via WEB

8.3.1 BASIC

8.3.1.1 STATUS





Status

Field name	Explanation
Network	Shows the configuration information on WAN and LAN port,
	including the connect mode of WAN port (Static, DHCP, PPPoE),
	MAC address, the IP address of WAN port and LAN port, ON or
	OFF of DHCP mode of LAN port and bridge mod
Accounts	Shows the phone numbers provided by the SIP LINE 1-2 servers
	and IAX2.
	The last line shows the version number and issued date.

8.3.1.2 WIZARD

VIP-2020PT	STATUS	WIZARD	CALL LOG	LANGUAGE
> BASIC	WAN Connection M	lode		
	Static IP	۲		
> NETWORK		0		
> NETWORK	DHCP	0		
	DHCP PPPoE	0		
> NETWORK				Next

Wizard

Please select the proper network mode according to the network condition. The VIP-2020PT provides three different network settings:

- **Static:** If User ISP server provides User with the static IP address, please select this mode, and then finish Static Mode setting. If User doesn't know about parameters of Static Mode setting, please refer to User ISP.
- **DHCP:** In this mode, User will get the information from the DHCP server automatically; need not have to input this information artificially.
- **PPPoE:** In this mode, User must input User ADSL account and password. User can also refer to 2.2.1 Network setting to speedily set User network.

Choose Static IP mode and click **[NEXT]** to config the network and SIP (default SIP1)



simply. Click **[BACK]** to return to the last page.

PLANET	
VIP-2020PT	
	STATUS WIZARD CALL LOG LANGUAGE
> BASIC	Static IP Settings
> NETWORK	IP Address 192.168.1.179
	Subnet Mask 255.255.0
> VOIP	IP Gateway 192.168.1.1 DNS Domain
> PHONE	Primary DNS 202.96.134.133
	Secondary DNS 202.96.128.68
FUNCTION KEY	Back
IP Address	Input the IP address distributed to User.
Subnet Mask	Input the subnet mask distributed to User.
IP Gateway	Input the Gateway address distributed to User.
	Set DNS domain postfix. When the domain which User input
DNS Domain	cannot be parsed, phone will automatically add this domain to
	the end of the domain which User input before and parse it
	again.
Primary DNS	Input User primary DNS server address.
Secondary DNS	Input User standby DNS server address.
····, ·	,,,
PLANET Networking & Communication	
VIP-2020PT	
A BACIC	
> BASIC	Quick SIP Settings
> NETWORK	Display Name 804
	Server Address 192.168.1.98 Server Port 5060
> VOIP	Authentication User 804
> PHONE	Authentication ••••
	SIP User 804
FUNCTION KEY	Enable Registration
	Back
Display Name	Set the display name.
Server Address	Input User SIP server address.
Server Port	Set User SIP server port.
Authentication User	Input User SIP register account name.
Authentication	Input Licer SID register perceiverd
Password	Input User SIP register password.



VIP-2020PT

SIP User	Input the phone number assigned by User VOIP service provider.		
Enable Registration	Start to register or not by selecting it or not.		
STATUS	ZARD CALL LOG LANGUAGE		
WAN			
Connection Mode	Static IP		
Static IP Address	192.168.1.179		
IP Gateway	192.168.1.1		
SIP			
Server Address	192.168.1.98		
Account	804		
Phone Number	804		
Registration	Enabled		
	Back Finish		

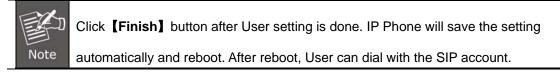
Display detailed information about User manual config.

Choose DHCP mode and click Next to config SIP (default SIP1) simply. Click Back to return to the last page, like static IP mode.

Choose PPPoE mode and click Next to config the PPPoE account/password and SIP (default SIP1) simply. Click Back to return to the last page, like static IP mode.

STATUS	WIZARD	CALL LOG	LANGUAGE
PPPoE Settings			
Service Name	ANY		
User	user123		
Password	•••••		
	Back		
Service Name	It will be provided by	ISP.	
User	Input User ADSL acc	count.	
Password	Input User ADSL pas	ssword.	





8.3.1.3 CALL LOG

User can check all the outgoing calls on this page shown below:

PLANET Networking & Communication					
VIP-2020PT	STATUS	WIZARD	CALL LOG	LANGUAGE	
> BASIC	Call Information				
> NETWORK	Start Time		Duration		Dialed Calls
> VOIP					
> PHONE					

Call	Log

Call Log	
Field name	Explanation
Start Time	Display the start time of the outgoing record.
Duration	Display the conversation time of the outgoing record.
Dialed Calls	Display the account/protocol/line of the outgoing record.

8.3.1.4 LANGUAGE

PLANET Networking & Communication				
VIP-2020PT	STATUS	WIZARD	CALL LOG	LANGUAGE
> BASIC	Language			
> NETWORK	Language Selec	tion	English 💌	
> VOIP	Greeting Words			
> PHONE	Greeting Words	5	VIP-2020PT	(0-12 character(s))
FUNCTION KEY				Apply
LANGUAGE				
Field name	Explanation			



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Language	Set the language of phone. English is default.
	The greeting words will display on LCD when phone is idle. It can
Greeting Words	support 12 chars.; the default chars are VOIP PHONE.
Note The maximum Chinese chara	length of the greeting message is 12 English characters and 5 cters.

8.3.2 NETWORK

8.3.2.1 WAN



WAN Status

WAN Status

Active IP Address	192.168.1.179
Current Subnet Mask	255.255.255.0
Current IP Gateway	192.168.1.1
MAC Address	00:a8:59:cd:6b:82
MAC Timestamp	20130603

Active IP Address	The current IP address of the phone.
Current Subnet Mask	The current Network mask address.
MAC Address	The current MAC address of the phone.



Current IP Gateway	The current Gateway IP address.			
MAC Timestamp	Shows the time of getting MAC address			
WAN Settings				
Obtain DNS Server Au	tomatically	Enabled 💌		
Enable Vendor Identif	ier	Disabled 💌		
Vendor Identifier		Planet VIP-2020PT		
Static IP 🔘		рнср 💿	PPPoE 🔘	
		Apply		

Please select the proper network mode according to the network condition. The VIP-2020PT provides three different network settings:

- **Static:** If User ISP server provides User with the static IP address. Please select this mode, and then finish Static Mode setting. If User doesn't know about parameters of Static Mode setting, please refer to User ISP.
- **DHCP:** In this mode, User will get the information from the DHCP server automatically; need not have to input this information artificially.
- **PPPoE:** In this mode, User must input User ADSL account and password.

Obtain DNS server automatically	Select it to use DHCP mode to get DNS address. If User does not select it, User will use static DNS server. The default is selecting it.			
IP Address	192.168.1.179			
Subnet Mask	255.255.255.0			
IP Gateway	192.168.1.1			
DNS Domain				
Primary DNS	202.96.134.133			
Secondary DNS	202.96.128.68			

User can also refer to 2.2.1 Network setting to speedily set User network.

If User uses static mode, User needs to set it.			
IP Address	Input the IP address distributed to User.		
Subnet Mask	Input the Network mask distributed to User.		
IP Gateway	Input the Gateway address distributed to User.		
	Set DNS domain postfix. When the domain which User input		
DNS Domain	cannot be parsed, phone will automatically add this domain to		
	the end of the domain which User input before and parse it		
	again.		
Primary DNS	Input User primary DNS server address.		

VIP-2020PT

Secondary DNS	Input User standby DNS server ac	ddress.
Static IP 🔘	DHCP O	PPPoE 💿
Service Name	ANY	
User	user123	
Password	• • • • • • •	

If User uses PPPoE mode, User need to make the above setting.

Service Name	It will be provided by ISP.
User	Input User ADSL account.
Password	Input User ADSL password.



- 1) Click "Apply" button after setting is done. IP Phone will save the setting automatically and new setting will take effect.
- 2) If User modifies the IP address, the web will not response by the old IP address. User needs to input new IP address in the address column to logon in the phone.
- 3) If networks ID which is DHCP server distributed is the same as network ID which is used by LAN of system, system will use the DHCP IP to set WAN, and modify LAN's networks ID (for example, system will change LAN IP from 192.168.10.1 to 192.168.11.1) when system uses DHCP client to get IP in startup. If system uses DHCP client to get IP in running status and network ID is also the same as LAN's, system will refuse to accept the IP to configure WAN. So WAN's active IP will be 0.0.0.0.

8.3.2.2 LAN

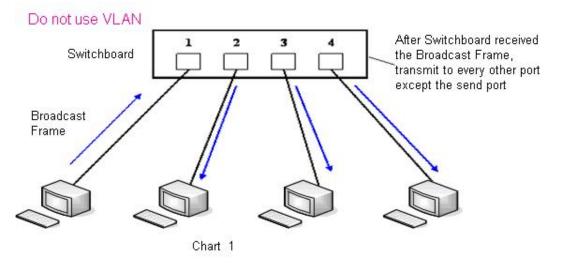
PLANET Retworking & Communication VIP-2020PT	WAN LAN.	QoS&VLAN SERVICE PORT DHCP SERVICE TIME&DATE			
> BASIC	LAN Settings 🕄				
• NETWORK	IP Address	192.168.0.1			
	Subnet Mask	255.255.255.0			
> VOIP	DHCP Service				
› PHONE	NAT Port Mirror Enable Bridge Mode	✓ ✓ (Only works in the bridge model)			
> FUNCTION KEY		Apply			
LAN Config					
Field name	Explanation				
IP Address	Specify LAN stat	Specify LAN static IP.			
Subnet Mask	Specify LAN Net	Specify LAN Netmask.			
	Select the DHCP	Select the DHCP server of LAN port or not. After User modifies			



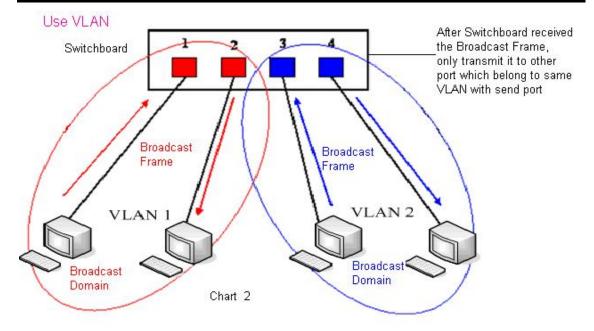
DHCP Service	the LAN IP address, phone will amend and adjust the DHCP		
	Lease Table and save the result amended automatically		
	according to the IP address and Net mask. User needs to rebo		
	the phone and the DHCP server setting will take effect.		
NAT	Select NAT or not.		
Port Mirror	Select Port Mirror or not, it only works in bridge mode. The		
	function of the port mirror is to copy the data stream from the		
	WAN port to the LAN port of the phone.		
	Select Bridge Mode or not: If User selects Bridge Mode, the		
Enable Bridge Mode	phone will no longer set IP address for LAN physical port, LAN		
	and WAN will join in the same network. Click "Apply", and the		
	phone will reboot.		
When LAN IP or bridge mode status is changed, the system will reboot!			
Note If User choose	s the bridge mode, the LAN configuration will be disabled.		

8.3.2.3 QoS&VLAN

The VOIP phone supports 802.1Q/P protocol and DiffServ configuration. VLAN functionality can use different VLAN IDs by setting signal/voice VLAN and data VLAN. The VLAN application of this phone is very flexible.







In chart 1, there is a layer 2 that switches go without setting VLAN. Any broadcast frame will be transmitted to the other ports except the send port. For example, a broadcast information is sent out from port 1 then transmitted to ports 2, 3 and 4.

In chart 2, red and blue indicate two different VLANs in the switch, and port 1 and port 2 belong to red VLAN, port 3 and port 4 belong to blue VLAN. If a broadcast frame is sent out from port 1, switch will transmit it to port 2, the other port in the red VLAN and not transmit it to port3 and port 4 in blue VLAN. By this means, VLAN divides the broadcast domain via restricting the range of broadcast frame transition.



Chart 2 uses red and blue to identify the different VLANs, but in practice, VLAN uses different VLAN IDs to identify.



PLANET						
Networking & Communication						
VIP-2020PT	WAN LAN	QoS&VLAN	SERVICE PORT DHCP SERVIC	E TIME&DATE		
> BASIC	Link Layer Discovery Protocol	(LLDP) Settings				
> NETWORK	Enable LLDP 9		Packet Interval(1~3600)	60 second(
→ VOIP	Enable Learning Function	Enable Learning Function				
> PHONE	Quality of Service (QoS) Settin Enable DSCP	ngs	SIP DSCP	46 (0~63)		
	Audio RTP DSCP	46 (0~63)				
> FUNCTION KEY	WAN Port VLAN Settings					
> MAINTENANCE	Enable WAN Port VLAN SIP 802.1P Priority	0 (0~7)	WAN Port VLAN ID Audio 802.1P Priority	256 (0~409 0 (0~7)		
> SECURITY	LAN Port VLAN Settings					
> LOGOUT	LAN Port VLAN Mode	Follow WAN 💌	LAN Port VLAN ID	254 (0~409		
			Apply			
QoS Configuration						
Link Layer Discovery F		.				
Enable LLDP	Enable LLDP b					
	After enabling L	LDP Learn, tel	ephone can automatica	ally learn		
	the data of DSC	CP, 802.1p, VLA	N ID from the switch. I	f the data is		
Enable Learning	different from th	ne data of the L	LDP server, telephone	will change		
Function	its own value as	s the value of th	e switch (Synchronous	s with VI AN		
	in switch).			,		
Package						
Interval(1-3600)	I ne time interva	The time interval of sending LLDP Packet.				
Quality of Service (Qos		al of sending LL	DP Packet.			
	s) Settings	al of sending LL	.DP Packet.			
Enable DSCP	Enable DSCP t	by selecting it.				
SIP DSCP	Enable DSCP to Specify the value	by selecting it.	SCP.			
SIP DSCP Audio RTP DSCP	Enable DSCP to Specify the value Specify the value	by selecting it.	SCP.			
SIP DSCP Audio RTP DSCP WAN Port VLAN Settin	Enable DSCP to Specify the value Specify the value	by selecting it. Le of the SIP DS Le of the Audio	SCP. RTP DSCP.			
SIP DSCP Audio RTP DSCP	Enable DSCP to Specify the value Specify the value N Enable WAN Pe	by selecting it. ue of the SIP DS ue of the Audio ort VLAN by sel	SCP. RTP DSCP. lecting it.			
SIP DSCP Audio RTP DSCP WAN Port VLAN Settin	Enable DSCP to Specify the value Specify the value N Enable WAN Pe	by selecting it. ue of the SIP DS ue of the Audio ort VLAN by sel	SCP. RTP DSCP.	e of the		
SIP DSCP Audio RTP DSCP WAN Port VLAN Settin Enable WAN Port VLA WAN Port VLAN ID	Enable DSCP to Specify the value Specify the value Specify the value Specify the value Specify the value value is 0-4095	by selecting it. ue of the SIP DS ue of the Audio ort VLAN by sel ue of the WAN F	SCP. RTP DSCP. lecting it.			
SIP DSCP Audio RTP DSCP WAN Port VLAN Settin Enable WAN Port VLA	Enable DSCP to Specify the value Specify the value Specify the value Specify the value Specify the value value is 0-4095	by selecting it. ue of the SIP DS ue of the Audio ort VLAN by sel ue of the WAN F	SCP. RTP DSCP. lecting it. Port VLAN ID, the rang			
SIP DSCP Audio RTP DSCP WAN Port VLAN Settin Enable WAN Port VLA WAN Port VLAN ID SIP 802.1p Priority	Enable DSCP to Specify the value Specify the value Specify the value Specify the value value is 0-4095 Specify the value is 0-7. Specify the value	by selecting it. ue of the SIP DS ue of the Audio ort VLAN by sel ue of the WAN F ue of the sip 802	SCP. RTP DSCP. lecting it. Port VLAN ID, the rang	of the value		
SIP DSCP Audio RTP DSCP WAN Port VLAN Settin Enable WAN Port VLA WAN Port VLAN ID SIP 802.1p Priority Audio 802.1p Priority	Enable DSCP to Specify the value Specify the value Specify the value Specify the value value is 0-4095 Specify the value is 0-7. Specify the value value is 0-7.	by selecting it. ue of the SIP DS ue of the Audio ort VLAN by sel ue of the WAN F ue of the sip 802	SCP. RTP DSCP. lecting it. Port VLAN ID, the rang 21.p priority, the range	of the value		
SIP DSCP Audio RTP DSCP WAN Port VLAN Settin Enable WAN Port VLA WAN Port VLAN ID SIP 802.1p Priority	Enable DSCP to Specify the value Specify the value Specify the value Specify the value value is 0-4095 Specify the value is 0-7. Specify the value value is 0-7.	by selecting it. ue of the SIP DS ue of the Audio ort VLAN by sel ue of the WAN F ue of the sip 802 ue of the audio a	SCP. RTP DSCP. lecting it. Port VLAN ID, the rang 21.p priority, the range 802.1p priority, the rang	of the value		
SIP DSCP Audio RTP DSCP WAN Port VLAN Settin Enable WAN Port VLA WAN Port VLAN ID SIP 802.1p Priority Audio 802.1p Priority LAN Port VLAN Setting	Enable DSCP to Specify the value Specify the value Specify the value Specify the value value is 0-4095 Specify the value is 0-7. Specify the value value is 0-7. Specify the value value is 0-7.	by selecting it. Le of the SIP DS Le of the Audio ort VLAN by sel Le of the WAN F Le of the sip 802 Le of the audio 8 Le of the audio 8	SCP. RTP DSCP. lecting it. Port VLAN ID, the rang 21.p priority, the range 802.1p priority, the rang	of the value		
SIP DSCP Audio RTP DSCP WAN Port VLAN Settin Enable WAN Port VLA WAN Port VLAN ID SIP 802.1p Priority Audio 802.1p Priority	Enable DSCP to Specify the value Specify the value Specify the value Specify the value value is 0-4095 Specify the value is 0-7. Specify the value value is 0-7. Specify the value value is 0-7.	by selecting it. Le of the SIP DS Le of the Audio ort VLAN by sel Le of the WAN F Le of the sip 802 Le of the audio 8 Le of the audio 8	SCP. RTP DSCP. lecting it. Port VLAN ID, the rang 21.p priority, the range 802.1p priority, the rang	of the value		



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	different from WAN ID.
LAN Port VLAN ID	Specify the value of the Port VLAN ID different from WAN ID, the
	range of the value is 0-4095.

8.3.2.4 SERVICE PORT

User can set the port of telnet/HTTP/RTP on this page.

PLANET Networking & Communication							
VIP-2020PT	WAN	LAN	QoS&VLAN	SERVICE PORT	DHCP SERVICE	TIME&DATE	
> BASIC	Service Port Settin	gs					
• NETWORK	Web Server Ty	pe	HTTP 💌				
> VOIP	HTTP Port HTTPS Port		80 443				
> PHONE	Telnet Port RTP Port Range	e Start	23 10000				
› FUNCTION KEY	RTP Port Quan	tity	200	Apply			
SERVICE PORT							
Field name	Explana	ation					
Service Port Settings	5						
Web Server Type	Specify	Web Server	Туре.				
	Set web	Set web browser port, the default is 80 port, if User want to					
	enhance	enhance system safety, User would be better change it into					
HTTP Port		non-80 standard port;					
		Example: The IP address is 192.168.1.70, and the port value is					
		8090, the accessing address is http://192.168.1.70:8090.					
	Before u	Before using the https, User must download https authentication					
	certificat	certification into the phone, then					
	Set web	Set web browser port, the default is 443 ports; if User want to					
HTTPS Port	enhance system safety, User would be better change it into						
		non-443 standard port. User can access to the web in https after					
		rebooting the phone.					
				User can o	hange the v	alue into	
	others.	Set Telnet Port, the default is 23. User can change the value into					
Telnet Port							
		Example: The IP address is 192.168.1.70. The telnet port value					
RTP Port Range Start		is 8023; the accessing address is telnet 192.168.1.70 8023. Set the RTP Start Port. It is dynamic allocation.					
						0	
RTP Port Quantity	Set the	Set the maximum quantity of RTP Port, the default is 200.					



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- 1) User needs to save the configuration and reboot the phone after setting this page.
- 2) Please reboot the system if User modifies the HTTP or telnet port number (the new number should be greater than 1024).
- 3) If User sets 0 for the HTTP port, it will disable HTTP service.

8.3.2.5 DHCP SERVICE

(Contraction of the second of	WAN	L	JAN (QoS&VLAN	SERVICE	PORT DHCP S		ME&DATE
	DHCP Client Table							
	Leased IP Add	lress			Clier	nt MAC Address		
BASIC	DHCP Lease Table							
	Name Start IP		End IP	Leased Tin	ne	Subnet Mask	IP Gateway	DNS
NETWORK	lan 192.168	8.0.2	192.168.0.31	1440		255.255.255.0	192.168.0.1	192.168.0.3
VOIP	DHCP Lease Table	Settings						
	Leased Table I	Name						
> PHONE	Start IP Addre	Start IP Address						
	End IP Addres	s						
FUNCTION KEY	Leased Time				min	ute(s)		
MAINTENANCE	Subnet Mask							
MAINTENANCE	IP Gateway							
SECURITY	DNS Server Ad	ldress						
SECONT					Add			
LOGOUT	DHCP Lease Table	Delete						
	Leased Table I	Name	lan 💌			Delete		
	DNS Relay							

DHCP SERVICE							
Field name	Explan	Explanation					
	IP-MAC	IP-MAC mapping table. If the LAN port of the phone connects to					
DHCP Lease Table	a devic	a device, this table will show the IP and MAC address of this					
	device.	device.					
DHCP Lease Table							
Name Start IP E	nd IP	Leased Time	Subnet Mask	IP Gateway	DNS		
lan 192.168.0.2 1	92.168.0.31	1440	255.255.255.0	192.168.0.1	192.168.0.1		
Shows the DHCP Lease Table, the unit of Lease time is Minute.							
Lease Table Name	Specify	Specify the name of the lease table.					
Start IP Address	Set the	Set the start IP address of the lease table.					
	Set the	Set the end IP address of the lease table, the network device					
End IP Address	connec	connected to LAN port will get IP address between Start IP and					
Enu IP Address	End IP	End IP by DHCP.					



	VIP-2020PT			
Subnet Mask	Set the Network mask of the lease table.			
IP Gateway	Set the Gateway of the lease table.			
Leased Time	Set the Lease Time of the lease table.			
DNC Conver Address	Set the default DNS server IP of the lease table; Click the Add			
DNS Server Address	button to submit and add this lease table.			
DHCP Lease Table Delet	te			
Leased Table Name	lan 💙 🛛 Delete			
Select name of lease tabl	e, click the Delete button will delete the selected lease table from			
DHCP lease table.				
DNS Relay				
Enable DNS Relay	✓ Apply			
Enable	Select DNS Relay, the default is enabled. Click the Apply button			
DNS Relay	to become effective.			
Note	le cannot be larger than the quantity of C network IP address. We			
	use the default lease table and not to modify it.			
 2) If User modifies the DHCP lease table, User needs to save the configuration and report 				

8.3.2.6 TIME&DATE

Setting time zone and SNTP (Simple Network Time Protocol) server according to User location, User can also manually adjust date and time in this web page.



VIP-2020PT	WAN	LAN	QoS&VLAN	SERVICE PORT	DHCP SERVICE	TIME&DATE
	Simple Netwo	rk Time Protocol	(SNTP) Settings	E.		
	Enable SN	тр 🕑				
BASIC	Enable DH	CP Time 🛛 🔲				
DASIC	Primary Se	rver 209	9.81.9.7			
	Secondary	Server				
NETWORK	Timezone	(G	MT+08:00)Beijing	,Chongqing,Hong	Kong,Urumqi	~
	Resync Pe	riod 60	second(s)			
/OIP	12-Hour C	lock 🔲				
	Date Form	at 13	lan,Mon 🛛 💌			
PHONE				Apply		
	Davlight Savin	ıg Time Settings				
UNCTION KEY	Enable					
	Offset	60	minutes(s)			
1AINTENANCE	Month				Ortohan	~
(PHP 12) Carrol Harvester (arch 💌		OCCODEN	×
ECURITY	Week	5			5 💌	1000
	Day		inday 💌		Sunday	~
	Hour	2			2	
DGOUT	Minute	U		(Apply)	0	
	Manual Time S	ettings				
	Year			1		
	Month					
	Day					
	Hour					
	Minute					
				Apply		

TIME&DATE					
Field name	Explanation				
Simple Network Time Protocol (SNTP) Settings					
Enable SNTP	Enable SNTP by selecting it.				
Enable DHCP Time	Enable DHCP Time by selecting it, then the				
	phone will automatically synchronize the standard time.				
Primary Server	Set SNTP Primary Server IP address.				
Secondary Server	Set SNTP Secondary Server IP address.				
Time Zone	Select the Time zone according to User location.				
Resync Period	Set the time out, the default is 60 seconds.				
12 -Hour Clock	Switch the time mechanism between 12 hours and 24 hours.				
	Default is 24 hours mode.				
Date format	Specify the date format.				
Daylight Saving Time S	ettings				
Enable	Enable daylight saving time.				
Offset(minutes)	Setup the variety length.				
Month	Setup start and end month.				
Week	Setup start and end week.				



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Day		Setup start and	d end day.			
Hour		Setup start and	Setup start and end hours.			
Minute		Setup start and	d end minutes.			
Manual Tim	ne Settings					
м	Manual Time	e Settings				
	Year]		
	Month					
	Day]		
Hour]		
Minute]		
				Apply		
	-		ble the SNTP service, ar mplete and submit to ma			

8.3.3 VOIP

8.3.3.1 SIP

Note

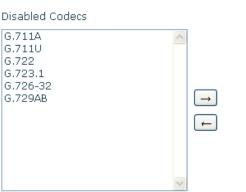
Set User SIP server in the following interface.

P-2020PT	SIP	IAX2	STUN	DIAL PEER		
	SIP Line	SIP 1	~			
ORK	Basic Settings >>					
5	Status		Registered	Domain Re	alm	
	Server Address		192.168.1.98	Proxy Serv	ver Address	
	Server Port		5060	Proxy Serv	ver Port	
	Authentication U	lser	804	Proxy Use	r 🗌	
ON KEY	Authentication P	assword	•••	Proxy Pas	sword	
	SIP User		804	Backup Pri	oxy Server Address 🗌	
NANCE	Display Name		804	Backup Pr	oxy Server Port 50)60
	Enable Registrat	tion		Server Na	me	
гү	Codecs Settings >>					
	Advanced SIP Settin	gs >>				
				Apply		



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Advanced SIP Settings >>

Forward Type Forward Number No Ans. Fwd Wait Time Transfer Timeout

Disabled	*
60](0~120)second(
0	second(s)

SIP Encryption SIP Encryption Key RTP Encryption RTP Encryption Key

Subscribe For MWI MWI Number Subscribe Period

Enable Service Code DND On Code Always CFwd On Code Busy CFwd On Code No Ans. CFwd On Code Ban Anonymous On Code

Keep Alive Type User Agent DTMF Type DTMF SIP INFO Mode Ring Type Enable Rport Enable PRACK Enable Long Contact Convert URI Dial Without Registered Ban Anonymous Call Enable DNS SRV Enable Missed Call Log BLF List Number Enable BLF List Respond 182 when Call waiting

<u> </u>	000000000000000000000000000000000000000

3600 second(s)



Enable Hotline Hotline Number (s) Warm Line Wait Time BLF Server

Enable Auto Answer Auto Answer Timeout Enable Session Timer Session Timeout

Conference Type Conference Number Registration Expires

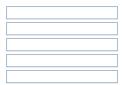
DND Off Code Always CFwd Off Code Busy CFwd Off Code No Ans. CFwd Off Code Ban Anonymous Off Code

Keep Alive Interval Server Type RFC Protocol Edition Local Port Anonymous Call Edition Keep Authentication Ans. With a Single Codec Auto TCP Enable Strict Proxy Enable GRUU Enable Displayname Quote Enable user=phone Click To Talk Transport Protocol Use VPN Enable DND



60	second(s)
0	second(s)

Local 3600 second(s)







SIP Line

Enterprise HD PoE IP Phone

SIP Global Settings >>	•		
Strict Branch			Enable Group
Registration Failur	e Retry Time 32	second(s)	
SIP Config			
Field name	Explanation		

Choose line to set info about SIP, there are 4 lines to choose. User can switch by **[Load]**

button.				
Basic Settings				
Status	Shows if the phone has been registered the SIP server or not;			
	or so, show Unapplied.			
Server Address	Input User SIP server address.			
Server Port	Set User SIP server port.			
Authentication User	Input User SIP register account name.			
Authentication Password	Input User SIP register password.			
SIP User	Input the phone number assigned by User VoIP service			
	provider. Phone will not register if there is no phone number			
	configured.			
Display Name	Set the display name.			
	Set proxy server IP address (Usually, Register SIP Server			
	configuration is the same as Proxy SIP Server. But if User			
Proxy Server Address	VoIP service provider gives different configurations between			
	Register SIP Server and Proxy SIP Server, User need make			
	different settings).			
Proxy Server Port	Set User Proxy SIP server port.			
Proxy User	Input User Proxy SIP server account.			
Proxy Password	Input User Proxy SIP server password.			
	Set the sip domain if needed, otherwise this VoIP phone will			
Domain Realm	use the Register server address as sip domain automatically.			
	(Usually it is same with registered server and proxy server IP			
	address).			
Backup Server Address	Input the Backup Server Address, if the primary server is			
	unavailable, then the phone will enable the Backup Server			
	Address.			
Backup Server Port	Specify the Backup Server Port.			
Enable Registration	Start to register or not by selecting it or not.			
Codecs Settings				
Disable Codecs/Enable	Use the navigation keys to highlight the desired one in the			
Codecs	Enable/Disable Codecs list, and press the desired to move to			
	the other list.			



Advanced SIP Setting				
	Select call forward mode, the default is Off.			
	Off: Close down calling forward.			
	Busy: If the phone is busy, incoming calls will be forwarded to			
	the appointed phone.			
	No answer: If there is no answer, incoming calls will be			
Forward Type	forwarded to the appointed phone after a specific.			
	Always: Incoming calls will be forwarded to the appoint phone			
	immediately.			
	The phone will prompt the incoming while doing forward.			
Forward Number	Specify the number User want to forward.			
No Answer Forward Wait	Specify the No Answer Forward Delay Time, if the Forward			
Time	Type is No answer, incoming calls will be forwarded after the			
	no answer forward wait time.			
Enable Hot Line	Specify Hot Line by selecting it.			
	Specify Hot Line Number, the phone dial the hot line number			
Hot Line Number	automatically at hands-free mode or handset mode after warm			
	line time.			
Warm Line Wait Time Specify the Warm Line Time.				
	For the phone supports the transfer of certain special features			
Transfer Timeout	server, set interval time between sending "bye" and hanging			
	up after the phone transfers a call.			
	The registered server will be gotten subscription package from			
	ordinary application of BLF phone, please enter the BLF			
BLF Server	server, when the sever dose not support subscription			
	package. then the registered server and subscription server			
	will be separate			
SIP Encryption	Enable/Disable SIP Encryption.			
SIP Encryption Key	Set the key for sip encryption.			
RTP Encryption	Enable/Disable RTP encryption.			
RTP Encryption Key	Set the key for RTP encryption.			
Enable Auto Answer	Enable Auto Answer by selecting it.			
Auto Anower Timoout	Specify Auto Answer Time, the phone auto answers the			
Auto Answer Timeout	incoming call after Auto Answer Time.			
Enchle Seccion Timer	Set Enable/Disable Session Timer, whether support			
Enable Session Timer	RFC4028.It will refresh the SIP sessions.			
Session Timeout	Set the session timeout.			
Subsoribs for MM/	Enable the Subscribe for MWI by selecting it, the phone will			
Subscribe for MWI	send subscribe message for MWI to the SIP Server.			
	Specify the MWI Number; Please contact User system			
MWI Number	administrator for the connecting code. Different systems have			
	different codes.			
	·			



	VIF-2020P
Subscribe Period(s)	Overtime of resending subscribe packet. Suggest using the default configuration.
Conference Type	Specify the Conference Type, if User select the local, User needn't input the conference number.
Conference Number	Specify the network conference number, please contact User
Registration Expire(s)	system administrator for the network conference number. Set expire time of SIP server register, default is 60 seconds. If the register time of the server requested is longer or shorter than the expired time set, the phone will change automatically
	the time into the time recommended by the server, and register again.
Enable Service Code	If User want to realize the following function by the server, please enter the On Code and Off Code option, then when User choose to enable/disable following function on User IP phone, it will send message to the server, and the server will turn on/off the function immediately.
DND On Code	Set the DND On Code, When User press the DND hot key, the phone will send a message to the server, and the server will turn on the DND function. Then any calls to the extension will be rejected by the server automatically. And the incoming call record will not be displayed in the Call History.
DND Off Code	Set the DND Off Code, When User press the DND hot key, the phone will send a message to the server, and the server will turn off the DND function.
Always CFwd On Code	Set the Always CFwd On Code, when User choose to enable the always forward function on User phone, it will send message to the server, and the server will turn on the function immediately. When there are calls to the extension, the server will always forward it to the set number automatically. And the IP phone will not show the record in the call history anymore.
Always CFwd Off Code	Set the Always CFwd Off Code, when User choose to disable the always forward function on User phone, it will send message to the server, and the server will turn off the function immediately.
Busy CFwd On Code	Set the Busy CFwd On Code, when User choose to enable the busy forward function v on User phone, it will send message to the server, and the server will turn on the function immediately. When there are calls to the extension, the server will forward it to the set number automatically based the forward type. And the IP phone will not show the record in the call history anymore.
Busy CFwd Off Code	Set the Busy CFwd Off Code, when User choose to disable



	VIP-2020P		
	the busy forward function on User phone, it will send message		
	to the server, and the server will turn off the function		
	immediately.		
	Set the No Answer CFwd On Code, when User choose to		
	enable the on answer forward function on User phone, it will		
	send message to the server, and the server will turn on the		
No Answer CFwd On	function immediately. When there are calls to the extension,		
Code	the server will forward it to the set number automatically based		
	the forward type. And the IP phone will not show the record in		
	the call history anymore.		
	Set the No Answer CFwd Off Code, when User choose to		
No Answer CFwd Off	disable the busy forward function on User phone, it will send		
Code	message to the server, and the server will turn off the function		
	immediately.		
	Set the Anonymous On Code, When User choose to enable		
Anonymous On Codo	the anonymous call function on User IP phone, it will send		
Anonymous On Code	information to the server, and the server will enable the		
	anonymous call function for User IP phone automatically.		
	Set the Anonymous Off Code, When User chooses to disable		
Anonymous Off Code	the anonymous call function on User IP phone, it will send		
Anonymous On Code	information to the server, and the server will disable the		
	anonymous call function for User IP phone automatically.		
	Specify the keep alive type, if the type is option, the		
	phone will send option sip message to server every NAT Keep		
Keep Alive Type	Alive Period(s), then the server responses with 200 to keep		
	alive. If the type is UDP, the phone will send UDP message to		
	server to keep alive every NAT Keep Alive Period(s).		
Keep Alive Interval	Set examining interval of the server, default is 60 seconds.		
User Agent	Set the user agent if have, the default is VoIP Phone 1.0.		
	Select DTMF sending mode, there are three modes:		
	• DTMF_RELAY		
DTMF Type	• DTMF_RFC2833		
	DTMF_SIP_INFO		
	Different VoIP Service providers may provide different modes.		
Local Port	Set sip port of each line.		
Ring Type	Set ring type of each line.		
Enable Via Rport	Enable/Disable system to support RFC3581. Via rport is		
	special way to realize SIP NAT.		
Enable PRACK	Enable or disable SIP PRACK function, suggest use the		
	default config.		
Enable Long Contact	Set more parameters in contact field; connection with SEM		
	server.		



	VIF-2020F			
Convert URI	Convert # to %23 when send the URI.			
Dial Without Registered	Set call out by proxy without registration.			
Ban Anonymous Call	Set to ban Anonymous Call.			
Enable DNS SRV	Support DNS looking up with _sip.udp mode.			
0	Select the special type of server which is encrypted, or has			
Server Type	some unique requirements or call flows.			
	Select SIP protocol version to adapt for the SIP server which			
	uses the same version as User select. For example, if the			
RFC Protocol Edition	server is CISCO5300, User need to change to RFC2543; else			
	phone may not cancel call normally. System uses RFC3261 as			
	default.			
Transport Protocol	Set transport protocols, TCP or UDP.			
	Set Anonymous call out safely; Support RFC3323and			
Anonymous call Edition	RFC3325.			
	Enable/Disable Keep Authentication System will take the last			
Kaan Authentiation	authentication field which is passed the authentication by			
Keep Authentication	server to the request packet. It will decrease the server's			
	repeat authorization work, if it is enable.			
Anower With A Single	Enable/Disable the function when call is incoming, phone			
Answer With A Single Codec	replies SIP message with just one codec which phone			
Codec	supports.			
Auto TCP	Set to use automatically TCP protocol to guarantee usability of			
AULOTOP	transport as message is above 1300 byte			
	Support the special SIP server-when phone receives the			
Enable Strict Proxy	packets sent from server, phone will use the source IP			
	address, not the address in via field.			
Enable GRUU	Set to support GRUU			
Enable Display name	Set to make quotation mark to display name as the phone			
Quote	sends out signal, in order to be compatible with server.			
Enable user = phone	Enable user = phone by selecting it, it is contained in the invite			
	sip message, in order to be compatible with server.			
	Enable the missed call log by it, the phone will save the			
	missed call log into the call history record and display the			
Enable Missed Call Log	missed calls on the idle screen, or won't save the missed call			
	log into the call history record and display the missed calls on			
	the idle screen.			
Click to talk	Set click to Talk (need practical software support).			
	Enable BLF List by selecting it, BLF list is a function which can			
Enable BLF List	monitor the group status, it is not one to one monitoring, but			
	the information feedback from the server to decide which BLF			
	list will monitor.			
BLF List Number	Specify the BLF List Number.			



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SIP Global Settings	
	Enable the Strict Branch, the value of the branch must be in
	the beginning of z9hG4k in via field of the invite sip message
Strict Branch	received, or the phone won't response to the invite sip
	message.
	Notice: the deployment will become effective in all sip lines.
	Enable Group by selecting it, then the phone enable the sip
Enable Group	group backup function.
	Notice: the deployment will become effective in all sip lines.
	Specify the registration failure retry time, if the phone register
Registration Failure Retry	failed, the phone will register again after registration failure
Time	retry time.
	Notice: the deployment will become effective in all sip lines.

8.3.3.2 IAX2

PLANET						
VIP-2020PT	ſ	SIP	IAX2	STUN	DIAL PEEF	
				3		
> BASIC	IAX	2				
> NETWORK		Status		Unapplied		
METWORK		Server Address				
> VOIP		Server Port		4569		
VOIP		Account				
. BUONE		Password				
> PHONE		Phone Number				
		Local Port		4569		
FUNCTION KEY		Voice Mail Number		0		
CONTRACTOR AND		Voice Mail Text		mail		
• MAINTENANCE		Echo Test Number		1		
		Echo Test Text		echo		
> SECURITY		Refresh Time		60 secon	d(s)	
The second		Enable Registrat	ion			
> LOGOUT		Enable G.729AB				
					Apply	
IAX2 Config						
Field name	Explana	tion				
Status	Shows if	the phone ha	s been registe	red the IAX2 ser	ver or not.	
Server Address	Input Us	Input User IAX2 server address.				
Server Port	Set User	Set User IAX2 server port, the default is 4569.				

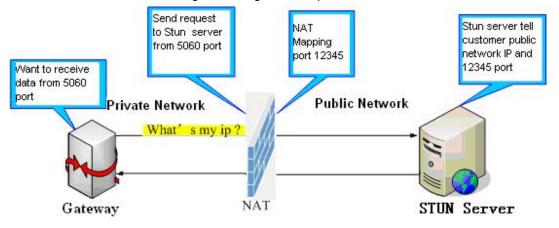


Input User IAX2 register account name.			
Input User IAX2 register password.			
Input User assigned phone number (usually it is same User're User			
IAX2 account name).			
Set User local sport, the default is 4569.			
Specify the voice mail's number.			
Specify the voice mail's name.			
Set echo test number. If IAX2 server supports echo test, and echo			
test number is non- numeric, system could set an echo test number			
to replace the echo test text. So user can dial the numeric number			
to test echo voice test. This function is provided with server to			
make endpoint to test whether endpoint could talk through server			
normally.			
Specify echo test text's name.			
Set expire time of IAX2 server register, User can set it between 60			
and 3600 seconds.			
Start to register the IAX2 server or not by selecting it or not.			
Enable or disable code G.729 by selecting it or not.			

8.3.3.3 STUN

In this web page, Users can config SIP STUN.

STUN: By STUN server, the phone in private network could know the type of NAT and the NAT mapping IP and port of SIP. The phone might register itself to SIP server with global IP and port to realize the device both calling and being called in private network.





				VIFZUZUFI		
PLANET						
VIP-2020PT	SIP	IAX2	STUN	DIAL PEER		
> BASIC						
7 DASIC	Simple Traversal of U	JDP through NAT	s (STUN) Setting	5		
> NETWORK	STUN NAT Traver	sal	FALSE			
/ HETWORK	Server Address					
> VOIP	Server Port		3478			
· VOIP	Binding Period		50	second(s)		
BUONE	SIP Waiting Time		800	millisecond(s)		
> PHONE	Local SIP Port		5060			
				Apply		
FUNCTION KEY						
	SIP Line Using STUN					
> MAINTENANCE	SIP 1	*				
	Lice STUN					
> SECURITY	Use STUN			(America)		
				Apply		
> LOGOUT						
STUN						
Field name	Explanation					
Simple Traversal of	UDP through NATs (STU	N) Settings				
		; 0	estimation tr	ue means STUN		
STUN NAT Traversa		Shows STUN NAT Transverse estimation, true means STUN can penetrate NAT, while False means not.				
Server Address	Set User SIP ST					
Server Port	Set User SIP ST	TUN Server Po	ort.			
	Set STUN blindi	ing period(s).	If NAT server f	inds that a NAT		
Dlinding Deried(e)	mapping is idle	mapping is idle after time out, it will release the mapping and				
Blinding Period(s)	the system need	the system need send a STUN packet to keep the mapping				
	effective and aliv	effective and alive.				
			User can inpu	It the time		
SIP Waiting Time		Specify the sip wait stun time; User can input the time depended on User network condition.				
	· · ·			000 (1)		
	° °	Configure the local SIP port, default port is 5060 (the port with				
Local SIP Port	immediate effec	immediate effect, after revision, SIP calls will use the				
	modified port.					
SIP Line Using STU	IN					
SIP Line U	sing STUN					
SIF LINE U	July Ston					
SIP 1	*					
Use ST	FUN					
				Apply		



Choose line to set info about SIP, There are 2 lines to choose. User can switch by [Load]

button.		
Use STU	N	Enable/Disable SIP STUN.
Note	STUN Server IP and	to realize SIP penetration to NAT. If User phone configures d Port (default is 3478), and enable SIP Stun, User can use the to realize penetration into NAT.

8.3.3.4 DIAL PEER

This functionality offers User more flexible dial rule; User can refer to the following content to know how to use this dial rule. When User wants to dial an IP address, the entry of IP addresses is very cumbersome, but by this functionality, User can set number 156 to replace 192.168.1.119 here.

Dial Peer Table						
Number	Destination	Port	Mode	Alias	Suffix	Deleted Length
156	192.168.1.119	5060	SIP	no alias	no suffix	0

When User want to dial a long distance call to Beijing, User need dial an area code 010 before local phone number, but User can also dial number 1 instead of 010 after we make a setting according to this dial rule. For example, User want to dial 01062213123, but User need dial only 162213123 to realize User long distance call after User make this setting.

Dial Peer Table

Number	Destination	Port	Mode	Alias	Suffix	Deleted Length
IT	0.0.0.0	5060	SIP	no alias	no suffix	0

To save the memory and avoid abundant input of user, add the follow functions:

Dial F	eer `	Tab	le

Number	Destination	Port	Mode	Alias	Suffix	Deleted Length
IT	0.0.0	5060	SIP	no alias	no suffix	0
13xxxxxxxxx	0.0.00	5060	SIP	add:0	no suffix	0
13[5-9]xxxxxxxx	0.0.00	5060	SIP	add:0	no suffix	0
156	192.168.1.119	5060	SIP	no alias	no suffix	0

1.* Match any single digit that is dialed.

If user makes the above configuration, after user dials 11 digit numbers started with 13, the phone will send out 0 plus the dialed numbers automatically.

1. [] Specifies a range that will match digit. It may be a range, a list of ranges separated by commas, or a list of digits.



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If user makes the above configuration, after user dials 11 digit numbers started with from 135 to 139, the phone will send out 0 plus the dialed numbers automatically.

Use this phone User can realize dialing out via different lines without switch in web interface.

VIP-2020PT	SIP	IAX2 STUP		DIAL PEE	R		
	Dial Peer Table						
C. C. Const. M.	Number	Destination	Port	Mode	Alias	Suffix	Deleted Leng
> BASIC	IT	0.0.0	5060	SIP	no alias	no suffix	0
	13xxxxxxxxx	0.0.0	5060	SIP	add:0	no suffix	0
> NETWORK	13[5-9]xxxxxxx	0.0.0	5060	SIP	add:0	no suffix	0
> VOIP	156	192.168.1.119	5060	SIP	no alias	no suffix	0
2	Add Dial Peer						
> PHONE	Phone Number						
	Destination(Option	nal)					
FUNCTION KEY	Port(Optional) Alias(Optional)						
> MAINTENANCE	Call Mode	SIP ¥					
MAINTENANCE	Suffix(Optional)						
> SECURITY	Deleted Length(Op	otional)					
				Apply			
· LOGOUT	Dial Peer Option						
			Dalat				
	IT	~	Delet	ie M	odify		
DIAL PEER	IT	×	Delet	:e (M	odify		
	⊥⊤ Explanatio		Delet	:e_) (M	odify		
DIAL PEER Field name	Explanatio					e is full m	atching,
	Explanation	on	ching c	onditic	ons: one		•
	Explanation There are to the other is	on two types of mate s prefix matching.	ching co In the	onditic Full m	ons: one atching	, User ne	ed input
	Explanation There are the other is User desire	on two types of mate s prefix matching. ed phone numbe	ching co In the r in this	onditic Full m s blank	ons: one atching , and th	, User ne Ien User	ed input need
Field name	Explanation There are the other is User desired dial the pho	on two types of mate s prefix matching. ed phone numbe one number to re	ching co In the r in this calize ca	onditic Full m s blank alling t	ons: one atching , and th to what	, User ne ien User the phon	ed input need
	Explanation There are the other is User desire dial the pho- number is	on two types of mate s prefix matching. ed phone numbe one number to re mapped. In the p	ching co In the r in this alize co refix m	onditic Full m s blank alling t atchin	ons: one atching , and th co what g, User	, User ne len User the phon need inp	eed input need le but User
Field name	Explanation There are the other is User desire dial the pho- number is	on two types of mate s prefix matching. ed phone numbe one number to re	ching co In the r in this alize co refix m	onditic Full m s blank alling t atchin	ons: one atching , and th co what g, User	, User ne len User the phon need inp	eed input need le out User
Field name	Explanation There are to the other is User desired number is desired pres	on two types of mate s prefix matching. ed phone numbe one number to re mapped. In the p	ching c In the r in this alize c refix m F; then	onditic Full m s blank alling t atchin dial th	ons: one atching , and th co what g, User e prefix	, User ne ien User the phon need inp and a ph	eed input need ee out User none
Field name	Explanation There are to the other is User desired dial the pho- number is desired pre- number to	on two types of mate s prefix matching. ed phone numbe one number to re mapped. In the p efix number and ⁻ realize calling to	ching c In the r in this alize c refix m F; then what U	onditic Full m blank alling t atchin dial th Jser pr	ons: one atching and th o what g, User e prefix efix nur	, User ne ien User the phon need inp and a ph	eed input need ee out User none
Field name	Explanation There are a the other is User desired dial the pho- number is desired pre- number to The prefix	on two types of mate s prefix matching. ed phone numbe one number to re mapped. In the p efix number and ⁻ realize calling to number supports	ching c In the alize c refix m F; then what U at mos	onditic Full m s blank alling t atchin dial th Jser pr st 30 d	ons: one atching atchi	, User ne ien User the phon need inp and a ph nber is m	eed input need le but User none napped.
Field name	Explanation There are to the other is User desired dial the pho- number is desired pre- number to The prefix Set Destina	on two types of mate s prefix matching. ed phone numbe one number to re mapped. In the p efix number and ⁻ realize calling to number supports ation address. Th	ching c In the r in this alize c refix m r; then what U at mos is is op	onditic Full m blank alling t atchin dial th Jser pr st 30 d	ons: one atching a and th o what g, User e prefix efix nur ligits. config i	, User ne the phon need inp and a ph nber is m	eed input need be out User none napped.
Field name	Explanation There are to the other is User desired dial the pho- number is desired pre- number to The prefix Set Destina	on two types of mate s prefix matching. ed phone numbe one number to re mapped. In the p efix number and ⁻ realize calling to number supports	ching c In the r in this alize c refix m r; then what U at mos is is op	onditic Full m blank alling t atchin dial th Jser pr st 30 d	ons: one atching a and th o what g, User e prefix efix nur ligits. config i	, User ne the phon need inp and a ph nber is m	eed input need be out User none napped.
Field name	Explanation There are to the other is User desired dial the pho- number is desired pre- number to The prefix Set Destina- to set peer	on two types of mate s prefix matching. ed phone numbe one number to re mapped. In the p efix number and ⁻ realize calling to number supports ation address. Th	ching c In the r in this alize c refix m r; then t; then what U at mos at mos	onditic Full m s blank alling t atchin dial th Jser pr st 30 d otional ut dest	ons: one atching atchi	, User ne hen User the phon need inp and a ph nber is m tem. If Us IP addre	eed input need be but User none napped. ser want ss or
Field name Phone number	Explanation There are to the other is User desired dial the pho- number is desired pre- number to The prefix Set Destina- to set peer domain name	on two types of mate s prefix matching. ed phone numbe one number to re mapped. In the p efix number and realize calling to number supports ation address. The to peer call, plea me. If User want	ching c In the r in this alize c refix m F; then what U at mos is is op ase inputo use i	onditic Full m s blank alling t atchin dial th Jser pr st 30 d otional ut dest this dia	ons: one atching atching atching atching atching and the atching atchi	, User ne hen User the phon need inp and a ph nber is m tem. If Us IP addre n SIP2 lin	eed input need out User none napped. ser want ss or ne, User
Field name Phone number Destination	Explanation There are to the other is User desired dial the pho- number is desired pre- number to The prefix Set Destina- to set peer domain nam- need input	on two types of mate s prefix matching. ed phone numbe one number to re mapped. In the p efix number and realize calling to number supports ation address. The to peer call, plea me. If User want 255.255.255.255	ching c In the r in this alize c refix m F; then What U at mos as is op as in pr to use f 5 or 0.0	onditic Full m s blank alling t atchin dial th Jser pr st 30 d otional ut dest this dia	ons: one atching atching atching atching and th owhat g, User efix nur efix nur ligits. config i tination al rule o n it.SIP3	, User ne hen User the phon need inp and a ph nber is m tem. If Us IP addre n SIP2 lin	eed input need out User none napped. ser want ss or ne, User
Field name Phone number Destination	ExplanationThere are the other isUser desireddial the phonenumber isdesired predimenumber toThe prefixSet Destinationto set peerdomain nameneed inputSet the Signal	on two types of mate s prefix matching. ed phone numbe one number to re mapped. In the p efix number and realize calling to number supports ation address. The to peer call, plea me. If User want 255.255.255.255.255	ching c In the r in this alize c refix m F; then what U at mos ase input to use f 5 or 0.0 ault is 5	onditic Full m s blank alling t atchin dial th Jser pr st 30 d otional ut dest this dia 0.0.2 in 5060 fc	ons: one atching atching a and the owhat g, User e prefix efix nur ligits. config i tination al rule o h it.SIP3 or SIP.	, User ne nen User the phon need inp and a ph nber is m tem. If Us IP addre n SIP2 lin s into 0.0.	eed input need out User none napped. ser want ss or ne, User .0.3
Field name	ExplanationThere are the other isUser desireddial the phonenumber isdesired predimenumber toThe prefixSet Destinationto set peerdomain nameneed inputSet the Signal	two types of mate s prefix matching. ed phone numbe one number to re mapped. In the p efix number and realize calling to number supports ation address. The to peer call, plea me. If User want 255.255.255.256 gnal port, the defa	ching c In the r in this alize c refix m F; then what U at mos ase input to use f 5 or 0.0 ault is 5	onditic Full m s blank alling t atchin dial th Jser pr st 30 d otional ut dest this dia 0.0.2 in 5060 fc	ons: one atching atching a and the owhat g, User e prefix efix nur ligits. config i tination al rule o h it.SIP3 or SIP.	, User ne nen User the phon need inp and a ph nber is m tem. If Us IP addre n SIP2 lin s into 0.0.	eed input need out User none napped. ser want ss or ne, User .0.3



There are four types of aliases.

1) Add: xxx, it means that User need dial xxx in front of phone number, which will reduce dialing number length.



- 1) All: xxx, it means that xxx will replace some phone number.
- 2) Del: It means that phone will delete the number with length appointed.
- 3) Rep: It means that phone will replace the number with length and number appointed.
- 4) User can refer to the following examples of different alias application to know more how to use different aliases and this dial rule.

Call Mode	Select different signal protocol, SIP or IAX2			
Suffix	Set suffix, this is optional config item. It will show no suffix if User			
Sullix	don't set it.			
	Set delete length. This is optional config item. For example: if the			
Doloto Longth	delete length is 3, the phone will delete the first 3 digits then send			
Delete Length	out the rest digits. User can refer to examples of different alias			
	application to know how to set delete length.			



	lifferent alias	applications	
Set by web		Explanation	Example
Add Dial Peer Phone Number Destination(Optional) Port(Optional) Alias(Optional) Call Mode Suffix(Optional) Deleted Length(Optional)	9T 255.255.255.255 del SIP V 1 Apply	User need set phone number, Destination, Alias and Delete Length. Phone number is XXXT; Destination is 255.255.255.255 (0.0.0.2) and Alias is del. This means any phone No. that starts with User set phone number will be sent via SIP2 line after the first several digits of User dialed phone number are deleted according to delete length.	If User dials "93333" the SIP2 server will receive "3333".
Phone Number Destination(Optional) Port(Optional) Alias(Optional) Call Mode Suffix(Optional) Deleted Length(Optional)	2 all:33334444	This setting will realize speed dial function, after User dialing the numeric key "2", the number after all will be sent out.	When User dial "2", the SIP1 server will receive 33334444.
Phone Number Destination(Optional) Port(Optional) Alias(Optional) Call Mode Suffix(Optional) Deleted Length(Optional)	8T add:0755 SIP V	The phone will automatically send out alias number adding User dialed number, if User dialed number starts with User set phone number.	When User dial "8309", the SIP1 server will receive "07558309".
Phone Number Destination(Optional) Port(Optional) Alias(Optional) Call Mode Suffix(Optional) Deleted Length(Optional)	010T	User need set Phone Number, Alias and Delete Length. Phone number is XXXT and Alias is rep: xxx If User dialed phone number starts with User set phone number, the first digits same as User set phone number will be replaced by the alias number specified and New phone number will be send out.	When User dial "0106228", the SIP1 server will receive "86106228".

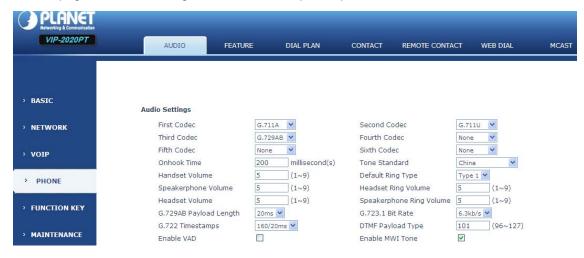


Phone Number 147 Destination(Optional)	If User dialed phone number starts with User set phone number. The phone will send out User dialed phone number adding suffix number.	When User dial "147", the SIP1 server will receive "1470011".
--	---	--

8.3.4 PHONE

8.3.4.1 AUDIO

On this page, User can configure voice codec, input/output volume and so on.



AUDIO Configuration		
Field name	Explanation	
First Codec	The first preferential DSP codec: G.711A/u, G.722,	
FIISt Codec	G.723.1,726-32 G.729AB,None.	
Second Codec	The second preferential DSP codec: G.711A/u, G.722,	
Second Codec	G.723.1,726-32 G.729AB,None.	
Third Codec	The third preferential DSP codec: G.711A/u, G.722,	
Third Codec	G.723.1,726-32 G.729AB,None.	
Fourth Codec	The forth preferential DSP codec: G.711A/u, G.722, G.723.1,	
Fourtin Codec	726-32 G.729AB, None.	
Fifth Codec	The fifth preferential DSP codec: G.711A/u, G.722, G.723.1,	
Fillin Codec	726-32 G.729AB, None.	
Sixth codec	The sixth preferential DSP codec: G.711A/u, G.722, G.723.1,	
Sixin couec	726-32 G.729AB, None.	
Handset Input Volume	Specify Input (MIC) Volume grade.	
G729AB Payload	Set G729 Payload Length.	



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Length	
Onhook Time	Specify the least reflection time of Hand down, the default is
Onnook nine	200ms.
Default Ring Type	Select Ring Type.
Handset Output Volume	Specify Output (receiver) Volume grade.
Speakerphone volume	Specify Speakerphone Volume grade.
Ring Volume	Specify Ring Volume grade.
G722 Timestamps	160/20ms or 320/20ms is available.
G723.1 Bit Rate	5.3 kb/s or 6.3 kb/s is available.
Tone Standard	Select Tone Standard.
Enable VAD	Select it or not to enable or disable VAD. If enable VAD, G729
	Payload length could not be set over 20ms.
DTMF Payload Type	Set DTMF Payload Type.

8.3.4.2 FEATURE

In this web page, User can configure Hotline, Call Transfer, Call Waiting, 3 Ways Call, Black List, white list Limit List and so on.

PLINEI Networking & Communication VIP-2020PT				
	AUDIO FEATU	RE DIAL PLAN	CONTACT REMOTE CON	NTACT WEB DIAL MCAST
	Feature Settings			
	DND (Do Not Disturb)	Disabled 💌	Ban Outgoing	
BASIC	Enable Call Transfer	V	Enable Call Waiting	
	Semi-Attended Transfer		Enable 3-way Conference	
NETWORK	Enable Auto Handdown	~	Accept Any Call	
NETWORK	Auto Handdown Time	3 second(s)	Enable Call Completion	
2012 C	Enable Auto Redial		Enable Pre-Dial	
VOIP	Auto Redial Interval	10 (1~180)second (s)	Enable Silent Mode	
PHONE	Auto Redial Times	10 (1~100)	Hide DTMF	Disabled 💌
	Auto Headset		Ring From Headset	
FUNCTION KEY	Enable Intercom	\checkmark	Enable Intercom Mute	
	Enable Intercom Tone		Enable Intercom Barge	V
MAINTENANCE	P2P IP Prefix		DND Return Code	480(Temporarily Not Available) 💌
MAINTENANCE	Turn Off Power Light		Busy Return Code	486(Busy Here)
CECUPTER	Emergency Call Number	110	Reject Return Code	603(Decline)
SECURITY	Enable Password Dial		Active URI Limit IP	
	Password Dial Prefix		Push XML Server	
> LOGOUT	Password Length	0 (0~31)	Enable Call Waiting Tone	V
	Enable Call History	~	Enable Multi Line	
	Enable Default Line		Enable Auto Switch Line	V
	Allow IP Call	×		
	Play Talking DTMF Tone		Play Dialing DTMF Tone	V



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Action URL Settings	
Setup Completed	
Registration Success	
Registration Disabled	
Registration Failed	
Off Hook	
On Hook	
Incoming Call	
Outgoing Call	
Call Established	
Call Terminated	
DND Enabled	
DND Disabled	
Always Forward Enabled	
Always Forward Disabled	
Busy Forward Enabled	
Busy Forward Disabled	
No Ans. Forward Enabled	
No Ans. Forward Disabled	
Transfer Call	
Blind Transfer Call	
Attended Transfer Call	
Hold	
Resume	
Mute	
Unmute	
Missed Call	
IP Changed	
Idle To Busy	
Busy To Idle	

Block Out Settings

		Block Out	
	Add	~	Delete

FEATURE	
Field name	Explanation
Do Not Disturb	Select DND, the phone will reject any incoming call, the callers will be
DO NOL DISLUID	reminded by busy, but any outgoing call from the phone will work well.
Ban Outgoing	If User select Ban Outgoing to enable it, and User cannot dial out any
Ban Outgoing	number.
Enable Call	Enable Call Transfer by selecting it.
Transfer	
Semi-Attended	Enable Semi-Attended Transfer by selecting it.
Transfer	
Enable Auto	Enable Auto Redial by selecting it, then the phone reminds whether redial,
Redial	when the caller is busy or rejects.



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Auto Redial interval	Specify the Auto Redial interval.
Auto Redial Times	Specify the Auto Redial interval.
Auto Headset	Open this function, if there is a headphones in VIP-2020PT, User can press " answer" key or line key to answer a call with the headset
Enable Call Completion	Enable Call Completion by selecting it.
Enable Pre-Dial	Enable Pre-Dial
Enable Call Waiting	Enable Call Waiting by selecting it. Then the phone reminds whether redial, when the caller is busy or rejects. if it's ok and the phone finds out that the caller is idle by sip message, it will reminds whether redial.
Enable Call Waiting Tone	Turn off this feature, User will not hear issued a " beep" sound with more calls.
Enable 3-way Conference	Enable 3-way conference by selecting it.
Accept Any Call	If select it, the phone will accept the call even if the called number is not belong to the phone.
Enable Auto Hand down	The phone will hang up and return to the idle automatically at hands-free mode.
Auto Hand down Time	Specify Auto Hand down Time, the phone will hang up and return to the idle automatically after Auto Hand down Time at hands-free mode, and play dial tone Auto Hand down Time at handset mode.
Ring From Headset	Enable Ring From Handset by selecting it, the phone plays ring tone from handset.
Enable Intercom	Enable Intercom Mode by selecting it.
Enable Intercom Mute	Enable mute mode during the intercom call.
Enable Intercom Tone	If the incoming call is intercom call, the phone plays the intercom tone.
Enable Intercom Barge	Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call.
Enable Silent Mode	Enable Silent Mode by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.
Turn Off Power Light	Enable Turn Off Power Light by selecting it.
Emergency Call Number	Specify the Emergency Call Number. Despite the keyboard is locked, User can dial the emergency call number.
Enable Password Dial	Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers

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	After the password prefix will be hidden as *, N stand for the value which	
	User enter in the Password Length field. For example: User set the	
	password prefix is 3, enter the Password Length is 2, then User enter the	
	number 34567, it will display 3**67 on the phone.	
Password Dial		
Prefix	Specify the prefix of the password call number.	
Password		
Length	Specify the Password length.	
DND Return		
Code	Specify DND Return code.	
Busy Return		
Code	Specify Busy Return Code.	
Reject Return		
Code	Specify Reject Return Code.	
Hide DTMF	Specify the hide DTMF mode.	
Push XML	Specify the Push XML Server, when phone receives request, it will	
Server	determine whether to display corresponding content on the phone which	
	sent by the specified server or not.	
	Set Prefix in peer to peer IP call. For example: what User want to dial is	
P2P IP Prefix	192.168.1.119, If User define P2P IP Prefix as 192.168.1., User dial only	
	#119 to reach 192.168.1.119. Default is ".". If there is no "." Set, it means to	
	disable dialing IP.	
Active URI	Specify the server IP that remote control phone for corresponding operation.	
Limit IP	Specify the server in that remote control phone for corresponding operation.	
Action URL Set	lings	
	Specify the Action URL that Record the operation of phone; send this	
Action URL	corresponding information to server, url: http://InternalServer	
Settings	/FileName.xml? (Internal Server is server IP. Filename is name of xml that	
0	contains the action message).	
Block Out Settin		
	Set Add/Delete Limit List. Please input the prefix of those phone numbers	
	which User forbid the phone to dial out. For example, if User want to forbid	
	those phones of 001 as prefix to be dialed out, User need input 001 in the	
	blank of limit list, and then User cannot dial out any phone number whose	
Block out	prefix is 001.	
	X and are wildcard x means matching any single digit. For example, 4xxx	
	expresses any number with prefix 4 which length is 4 will be forbidden to	
	dialed out means matching any arbitrary number digit. For example, 6	
	expresses any number with prefix 6 will be forbidden to dialed out.	
EK		
Esta-U Disali	List and Limit List can recent at most 40 items recent stimuly	



Black List and Limit List can record at most 10 items respectively.



8.3.4.3 DIAL PLAN

This system supports 4 dial modes:

- 1) End with "#": dial User desired number, and then press #.
- 2) Fixed Length: the phone will intersect the number according to User specified length.
- 3) Time Out: After User stop dialing and waiting time out, system will send the number collected.
- 4) User defined: User can customize digital map rules to make dialing more flexible. It is realized by defining the prefix of phone number and number length of dialing.

In order to keep some users' secondary dialing manner when dialing the external line with PBX, phone can be added a special rule to realize it. So user can dial a number as external line prefix and get the secondary dial tone to keep dial the external number. After finishing dialing, phone will send the prefix and external number totally to the server.

For example, there is a rule 9, xxxxxxx in the digital map table. After dialing 9, phone will send the secondary dial tone, user may keep going dialing. After finished, phone will call the number which starts with 9; actually the number sent out is 9-digit with 9.

Networking & Communication	AUDIC	D FEATURE DIAL PLAN CONTACT REMOTE CONTACT WEB DIAL MC
SIC	Basic Settin	ins.
TWORK		Press "#" to Send
TWORK		Dial Fixed Length 11 to Send
DIP		Send after 5 second(s)(3~30)
11-	~	Press # to Do Blind Transfer
		Blind Transfer on Onhook
HONE		Attended Transfer on Onhook
		Press DSS Key to Do Blind Transfer
INCTION KEY		Apply
AINTENANCE	Dial Plan Ta	ble
		Plans:
CURITY		Add Delete

DIAL PLAN Configuration

Diffe i Eritt Goningaradi	Diver Evit Comiguration		
Field name	Explanation		
Basic Setting			
Press "#" to Send	Set Enable/Disable the phone ended with "#" dial.		
Dial Fixed Length	Specify the Fixed Length of phone ending with.		



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Send after (3-30) seconds	Set the timeout of the last dial digit. The call will be sent after timeout.
Press # to Do Blind Transfer	Enable Blind Transfer On Hook, when executing Blind Transfer End with #, press # after inputting the number that User want to transfer, the phone will transfer the current call to the third party.
Blind Transfer on OnHook	Enable Blind Transfer on On Hook, when executing Blind Transfer, hang up after inputting the number that User want to transfer, the phone will transfer the current call to the third party.
Attend Transfer on OnHook	Enable Attend Transfer on On Hook, when executing Attended Transfer, hang up after the third party answers, the phone will transfer the current call to the third party.

Dial Plan Table

	Plans:		
Add	~	Delete	

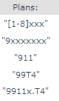
Below is user-defined digital map rule:

[] Specifies a range that will match digit. May be a range, a list of ranges separated by commas, or a list of digits.

* Match any single digit that is dialed.

. Match any arbitrary number of digits including none.

Tn Indicates an additional time out period before digits are sent of n seconds in length. n is mandatory and can have a value of 0 to 9 seconds. Tn must be the last 2 characters of a dial plan. If Tn is not specified it is assumed to be T0 by default on all dial plans.



Cause extensions 1000-8999 to be dialed immediately.

Cause 8 digit numbers started with 9 to be dialed immediately.

Cause 911 to be dialed immediately after it is entered.

Cause 99 to be dialed after 4 seconds.

Cause any number started with 9911 to be dialed 4 seconds after dialing ceases.



End with "#", Fixed Length, Time out and Digital Map Table can be used simultaneously. System will stop dialing and send number according to User set rules.

8.3.4.4 CONTACT

User can input the name, phone number and select ring type for each name here.



PLANET							
Networking & Communication	AUDIO	FEATURE	DIAL PLAN	CONTACT	REMOTE CONTACT	WEB DIAL	MCAST
			DIAL FORM	CONTACT	REMOTE CONTACT	WED DIAL	MCADI
	Phonebook Tab Group All	le V				Han	
> BASIC	Index N	ame Office Number	Mobile Num	2000		Type Group	
> NETWORK	Page: 💌	Pre Next frien	d 💌 🗛 9	Add to Bla	cklist Delete	Delete All	
7 NETWORK	Add Contact						
> VOIP	Name Office Numb	er	Ring C	Гуре	Default 💌 Auto	×	
> PHONE	Mobile Num		Line		Auto	~	
	Other Numb Group Setti	20 L	Line		Auto	~	
> FUNCTION KEY		friend home work	1				
> MAINTENANCE		business classmate	v				
> SECURITY		Add	M	odify	Clear		
	Import Contact	List					
> LOGOUT	Select File:		Browse	(*.xml,*.vcf,*.cs	v) Update		
	Export Contact						
		Export XML	Export	CSV	Export VCF		
Group Option							
Group	friend 💌						
Name	friend						
Ring Type	Default 🚩						
	Add	Modify De	lete Delet	e All J			
Blacklist Settings	;						
Blacklist Item	~			Delete	Delete All		
Туре	Number 💙						
Value				Add			
Line	Auto 💌						
			Blacklist				
Contact							
Field name		Explanatio	n				
Phonebook	Table						
Name		Shows the	name corre	espondin	g to the phon	e number	_
Index Name	Office Number	Mobile Numb		ther Number			_
Page: V Pre			Add to B			elete All	
Shows the de	etail of current p	NONEDOOK.					
Th Th	e maximum cap	acity of the p	honebook	is 500 ite	ms. User can	select ma	iny or a
co	ntact to add to g	group and ac	d to black	list, and o	delete many	or a conta	ct, and
Note de	lete all contacts.						
Add Contac	t List						1
Name		Specify the	name corr	espondin	g to the phor	ne number	· ·
Office Number	or	Specify the		-			-
	51	Specify the	once null	ibei.			



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Mobile Number	Specify the mobile number.
Other Number	Specify the other number.
Ring Type	Specify the ring type for the phone number.
Line	Specify the sip line for the each number.
Croup cotting	Select the group from the unselected group to selected list for
Group setting	the contact; User can select many groups for the contact.
	adding a new contact, the modify button for modifying the clear all button for clear all input information of the contact.
Group Option	
Group	Select the added groups then modify or delete and so on.
Name	Input the name of the group, then click the add button, User
name	can add a new group.
Ring Type	Specify the ring type for the group as adding a new group.
Blacklist Settings	
Turpo	Select the blacklist type, User can select number or prefix of
Туре	number.
Value	Input number or prefix of number.
Line	Select the sip line.



The add button for adding a new blacklist, the delete button for deleting one item, the delete all button for deleting all items.

If user does not want to answer some phone calls, add these phone numbers to the Black List, and these calls will be rejected x and are wildcard x means matching any single digit. For example, 4xxx expresses any number with prefix 4 which length is 4 will be forbidden to be responded.

DOT (.) means matching any arbitrary number digit. For example, 6. Expresses any number with prefix 6 will be forbidden to be responded.

If user wants to allow a number or a series of number incoming, he may add the number(s) to the list as the white list rule. The configuration rule is -number, for example, -123456, or -1234xx.

Blacklist

-4119

Means any incoming number is forbidden except for 4119 Note: End with DOT (.) when set up the white list.



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8.3.4.5 REMOTE CONTACT

VIP-2020PT	AUDIO	FEATURE	DIAL PLAN	CONTACT	REMOTE CONTACT	WEB DIAL	М
	6144 - 51556 24755 - 7						
BASIC	Remote Phonel	pook Settings	Server URL	SIP Line	User	Password	
	1	Phonebook Name	Server OKL	Auto V	User	Password	
NETWORK	2			Auto V	-		
	3			Auto 🗸			
VOIP	4			Auto 💌			
FUNCTION KEY	LDAP Settings						
	LDAP	LDAP 1					
MAINTENANCE	Display Title	5			Version	Version 3 💙	
	Server Add	ress			Server Port	389	
SECURITY	Authenticati	on	None 💙		Line	AUTO 💌	
	Username				Password		
LOGOUT	Search Bas	e	-		Enable Calling Search		
and the other states of the			telephoneNumber		Mobile	mobile	
	Telephone		telephonenumber		Hobite	mobile	

User needs to match a XML Phonebook address and User can directly access to the

corresponding remote phonebook on the phone.

For example: Set the Phonebook Name as Planet, Server URL is

tftp://192.168.1.3/admin/phonebook/index.xml.

Or Set the Phonebook Name as Idap, Server URL is Idap://192.168.1.3/dc=winline,dc=com.

Remote Phonebook Setting					
Phonebook Name	Custom the phonebook name displayed on the phone.				
Server URL	Specify the server url of the remote phonebook.				
SIP Line	Specify the sip line for the remote phonebook.				
Authentication	Specify the authentication mode for remote phonebook.				
User/password	Input the authentication username and password.				

8.3.4.6 WEB DIAL

VIP-2020PT	AUDIO	FEATURE	DIAL PLAN	CONTACT	REMOTE CONTACT	WEB DIAL	MCAST
› BASIC	Web Dial Settings						
> NETWORK	Dial Number Line Selection	804@192	.168.1.98	~	Dial	Hangup	
> VOIP				Luc .			
> PHONE							



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User can make a call through the WEB DIAL, enter the Dial Number then press Dial, if User wants to finish the talk, press Hang-up.

8.3.4.7 MCAST Setting

Use the multicast function to send notice to every member of the multicast is simple and easy. By setting the multicast key on your phone, you can send multicast RTP flow to the pre-configured multicast address. By listening multicast address is configured on the phone, listen and play the multicast address to send the RTP stream.

Send multicast setting

On the phone web page,function key-function key,set a function key, as shown

DSS Key 8 Multicast 💌 239.1.1.1:1366		AUTO	Ŧ		G.711A	•	
--------------------------------------	--	------	---	--	--------	---	--

Value format IP:Port, the IP address of multicast is range from 224.0.0.0 to 239.255.255.255,port is greater than 1024

If multicast codec is G722, the LCD screen will displays "HD", which means the phone is sending high-definition voice stream

Operate steps:

1. When the phone is idle, press multicast key

Multicast RTP stream is send to pre-configured multicast address (IP: Port). The phone which listens to multicast address in the local network can receive the RTP stream. Multicast function key LED lights yellow.

LCD screen displays the following:



- 2. Press the hold softkey to hold the current multicast session
- 3. Press the end softkey again or multicast function key, multicast session can be stopped

Notice: RTP stream is one side that is from a sender to a receiver. when the phone initiates a multicast RTP session in a call, the current call is on hold.



Receive multicast setting

You can set up the phone monitoring 10 different multicast addresses to receive these multicast RTP stream.

You have two methods to receive RTP stream of multicast that can be set up through the web page:

Enable priorities of normal calls and Enable page Priority:

Enable priorities of normal call by select it, if the incoming RTP stream priority of multicast lower than the priority of current for normal calls, the phone will ignore the RTP stream of multicast. If the incoming RTP stream priority of multicast higher than the priority of current for normal calls, the phone will receive the RTP stream of multicast, and hold the current call.

Disabled priorities of normal call by select disable, the phone will ignore all local networks RTP stream of multicast.

Options as follows:

1-10: the priority defined for normal calls, 1 the highest level, 10 the lowest level Disabled: Ignore all RTP stream of multicast

Enable Page Priority

Page priority determines the phone how to handle the newly received multicast RTP stream when in a multicast session. Enabled page priority, the phone will automatically ignore the low priority multicast RTP stream and receive the high priority multicast RTP stream and hold the current multicast session; If not enabled, the phone will automatically ignore all incoming multicast RTP stream.

Web page is set as follows:

MCAST Settings

 or octango		
Priority	1	
Enable Page Priority		
Index/Priority	Name	Host:port
1	SS	239.1.1.1:1366
2	ee	239.1.1.1:1367

Now multicast "ss" has higher priority than multicast "ee", the highest priority is for normal calls Notice: When a multicast session begins, multicast sender and receiver will beep



8.3.5 FUNCTION KEY

8.3.5.1 FUNCTION KEY

PLANET Retworking & Communication VIP-2020PT	FUNCTION KEY	EXT KEY	SOFTKEY		_	_
› BASIC	Screen Configurat Contrast Backlight Time	5	(1~9)	ply	Enable Backlight	T
> NETWORK	Function Key Setti	ings				
	Key	Туре	Value	Line	Subtype	Pickup Number
> VOIP	DSS Key 1	Line 💌		SIP1 💌	None	2
> PHONE	DSS Key 2	Line 💌		SIP2 💌	Literio -	×
PHONE	DSS Key 3	Key Event 💌		AUTO M		×
FUNCTION KEY	DSS Key 4	Key Event 💌		AUTO 💟	Headset	
			Api	ply		
> MAINTENANCE						
	Programmable Ke					
> SECURITY	Key	Desktop	Dialer		Calling	Desktop Long Pressed
	Up	History V	Prev. Line		ct Call	Status V
> LOGOUT	Down Left	Status V Pre Account V	Next Line 💌		ume Down 💙	None Y
	Right	Next Account	None		ume Up	Speed Dial
	OK	Menu Y	None 💙	Nor		None V
					Summer 1	Subor 1
			Ap	ply		
Function Key						

Field name	Explanation
Contrast	Set contrast of screen.
Enable Backlight	Set enable/disable backlight.
Line Key Settings	

Line: select Auto, SIP1, SIP2 or IAX2 in function key type. After User set it, User pick up handset or hands-free, press this function key, and then User can use the corresponding SIP line.

Function Key Settings	
key	Show the function key's serial number.
	Memory Key: settings can be stored in key storage for each
	number, the standby or off-hook, select the function keys on
	the keyboard can call this number.
Туре	Line, set the dial mode (Auto, SIP1, SIP2, IAX2).Key Event
	functions, monitor state.
	DTMF: In the call, send DTMF.
	URL: User can input remote book url.
Value	Set the type parameter values.
Line	Choose which lines to use this feature.
Subtype	Select the function parameters Key Event and Memory Event.





Pickup Number	Please input the pickup number When SubType is BLF or presence.	
NOTICE :		

• Memory keys can be configured through the following:

Speed Dial function, through the configuration of the key corresponding to the number of ways as shown below.

Key	Туре	Value	Line	Subtype	Pickup Number
DSS Key 1	Memory Key 🛛 💟	4111	SIP1 💌	Speed Dial 💌	

User can press the F1 key to allocate this number by line1 line.

Intercom function, User can press this key in standby to automatically answer the call and make each other.

Key	Туре	Value	Line		Subtype		Pickup Number
DSS Key 1	Memory Key 🛛 💌	4111	SIP1	*	Intercom	Y	

User can be configured in accordance with push to talk function the way: 4116 was the other number; Then press the standby button and make it automatically answer the call 4116.

• key can be configured through the following events:

For example:

Кеу	Туре	Value	Line	Subtype	Pickup Number
DSS Key 1	Key Event 💌		SIP1 🗸 🗸	DND 💌	

8.3.5.2 EXIT KEY

	FUNCTIO	N KEY EXT KEY	SOFTKEY			
	1000	Module Selection			Load	Not Connecte
BASIC	Key	Туре	Value	Line	Subtype	Pickup Number
	F 1	None 💌	1	AUTO 😒	None	9
NETWORK	F 2	None 💌		AUTO 😪	None	Y
	FЗ	None 💌		AUTO 😒	None	~
VOIP	F 4	None 💌		AUTO M	None	~
	F 5	None 💌		AUTO M	None	×
PHONE	F 6	None 💌		AUTO 💌	None	4
	F 7	None 💌		AUTO ⊻	None	Y
FUNCTION KEY	F 8	None 💌	0	AUTO Y	None	Y .
TORCTION RET	F 9	None 💌		AUTO 😪	None	~
MAINTENANCE	F 10	None 💌		AUTO M	None	V
MAINTENANCE	F 11	None 💌		AUTO 💉	None	V
NAMES AND ADDRESS OF TAXABLE	F 12	None 💌		AUTO ⊻	None	Sec. 1
SECURITY	F 13	None 💉		AUTO 👻	None	~
10-10-10-10-10-10-10-10-10-10-10-10-10-1	F 14	None 💌	0	AUTO 👻	None	Y
LOGOUT	F 15	None 💉		AUTO 💌	None	2
	F 16	None 💌		AUTO 🔍	None	V .
	F 17	None 💌		AUTO M	None	<u>M</u>
	F 18	None 💌		AUTO 😒	None	v
		None		AUTO V		V -



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EXT KEY has the same usage with the Function key. "In" port connects the phone, "Out" port connects the next one, if there is only, User don't need for power supply, if there are more than one, User need supply 5V power for the first one, and use RJ-45 direct connector.

8.3.5.3 SOFTKEY

PLANET Retworking & Communication VIP-2020PT		T KEY SOFTKEY	_	
: BASIC : NETWORK	Softkey Settings	Softkey Mode Screen	More V Call Dialer V	
· VOIP		Unselected Softkeys	Selected Softkeys	
3 PHONE		None Call Back(CBack) Clear History In Join	Delete None Dial Exit	
> FUNCTION KEY		Missed MWI	-	
MAINTENANCE		Out Pause Phonebook(Dir) Pickup Prev. Line(Prev.) Redial		

SOFTKEY

User can configure different functions in different screens for every softkey.



8.3.6 Maintenance

8.3.6.1 Auto Provision

PLANET Retworking & Communication		_				
VIP-2020PT	AUTO PROVISION	SYSLOG	CONFIG	UPDATE	ACCESS	REBOOT
BASIC	Auto Provision Setting	s				
; NETWORK	Current Config Ve		2.0002			
	Common Config V CPE Serial Numbe		2.0002)10000000010e597	050	
; VOIP	User	if.	00100400XH0200	100000000106397	052	
	Password					
1 PHONE	Config Encryption	Кеу	-			
FUNCTION KEY	Common Config B					
	Save Auto Provisi	on Information				
> MAINTENANCE	DHCP Option Settings	>>				
SECURITY	Plug and Play (PnP) Se	ettings >>				
	Phone Flash Settings >	·>				
: LOGOUT	TR069 Settings >>					
Plug and Play (PnP) S	ettings >>					
Enable PnP						
PnP Server		224.0.1	.75			
PnP Port		5060				
PnP Transport		UDP 🔽				
PnP Interval		1		hour(s)		
Phone Flash Settings	>>					
Findle Hash bettings	~ ~					
Server Address		0.0.0.0				
Config File Name	1					
Protocol Type		FTP	*			
Update Interval		1		hour(s)		
Update Mode		Disabled	d	~		

Planet endpoint supports PnP and DHCP and Phone Flash to obtain the parameters. The PnP and DHCP and Phone Flash are all deployed, endpoint will go by the following process to try to obtain the server address and other parameters, when it boots up: DHCP option \rightarrow PnP server \rightarrow Phone Flash

Auto Provision	
Field name	Explanation



Auto Provision Setting	
Current Config Version	Show the current config file's version. If the version of the configuration downloaded is higher than the version of the running configurations, the auto provision would upgrade, or stop here. If the endpoints confirm the configuration by Digest method, the endpoints wouldn't upgrade configuration unless the configuration in the server is different with the running configuration.
Common Config Version	Show the common config file's version. If the configuration downloaded and the running configurations are the same, the auto provision would stop here. If the endpoints confirm the configuration by Digest method, the endpoints wouldn't upgrade configuration unless the configuration in the server is different with the running configuration.
CPE Serial Number	Show CPE Serial Number.
User	Specify FTP/HTTP/HTTPS server Username. System will use anonymous if username keep blank.
Password	Specify FTP/HTTP/HTTPS server Password.
Config Encrypt Key	Input the Encrypt Key, if the configuration file is encrypted.
Common Config Encrypt Key	Input the Common Encrypt Key, if the Common Configuration file is encrypted.
Save Autoprovision Information	Save the username and password authentication message of http/https/ftp and input ID message in the phone until the url in the server changes.
DHCP Option Setting	
DHCP Option Setting	Specify DHCP Option. DHCP option supports DHCP custom option and DHCP option 66 and DHCP option 43 to obtain the parameters. User could choose one method among them; the default is DHCP option disable.
Custom DHCP Option	A valid Custom DHCP Option is from 128 to 254. The Custom DHCP Option must be in accordance with the one defined in the DHCP server.
Plug and Play	
Enable PnP	Enable PnP by selecting it, than the phone will send SIP SUBSCRIBE messages to a multicast address when it boots up. Any SIP server understanding that message will reply with a SIP NOTIFY message containing the Auto Provisioning Server URL where the phones can request their configuration.
PnP Server	Specify the PnP Server.
PnP Port	Specify the PnP Server.
PnP Transport	Specify the PnP Transfer protocol.
PnP Interval	Specify the Interval time, unit is hour.



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Phone Flash					
Server Address	Set FTP/TFTP/HTTP server IP address for auto update. The				
Server Address	address can be IP address or Domain name with subdirectory.				
	Set configuration file's name which need to update. System will				
Config File Name	use MAC as config file name if config file name keep blank. For				
	example, 000102030405.				
Protocol Type	Specify the Protocol type FTP, TFTP or HTTP.				
Update Interval	Specify update interval time, unit is hour.				
	Different update modes:				
	1. Disable: means no update.				
Update Mode	2. Update after reboot: means update after reboot.				
	3. Update at time interval: means periodic update.				
TR069 Settings					
Enable TR069	Enable TR069 by selecting it.				
ACS Server Type	Specify the ACS Server Type.				
ACS Server URL	Specify the ACS Server URL.				
ACS User	Specify ACS User.				
ACS Password	Specify ACS Password.				
TR069 Auto Login	Enable TR069 Auto Login by selecting it.				
"Inform" Sending Period	Specify the "inform" Sending Period, unit is second.				

8.3.6.2 SYSLOG

Syslog is a protocol which is used to record the log messages with client/server mechanism. Syslog server receives the messages from clients, and classifies them based on priority and type. Then these messages will be written into log by some rules which administrator can configure. This is a better way for log management.

8 levels in debug information:

Level 0---emergency: This is highest default debug info level. User system cannot work.

Level 1---alert: User system has deadly problem.

Level 2---critical: User system has serious problem.

Level 3---error: The error will affect User system working.

Level 4---warning: There are some potential dangers. But User system can work.

Level 5---notice: User system works well in special condition, but User need to check its working environment and parameter.

Level 6----info: the daily debugging info.

Level 7---debug: the lowest debug info Professional debugging info from R&D person.

At present, the lowest level of debug information is info; debug level only can be displayed on telnet.



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PLANET					
VIP-2020PT			UPDATE	ACCESS	REBOOT
BASIC	Syslog Settings				
I NETWORK	Server Address Server Port	0.0.0.0			
¹ VOIP	MGR Log Level SIP Log Level	None 💙			
1 PHONE	IAX2 Log Level Enable Syslog	None 💌			
FUNCTION KEY	Watch Dog				
> MAINTENANCE	Enable Watch Dog		Apply		
SECURITY	Web Capture				
I LOGOUT	Start	Stop			

Syslog Configuration	
Field name	Explanation
Syslog Setting	
Server Address	Set Syslog server IP address.
Server Port	Set Syslog server port.
MGR Log Level	Set the level of MGR log.
SIP Log Level	Set the level of SIP log.
IAX2 Log Level	Set the level of IAX2 log.
Enable Syslog	Select it or not to enable or disable syslog.
Web Capture	
Start	Click the start button when User need capture the WAN packet
Start	stream of the phone, then open or save the file as the interface.
Stop	Click the end button to stop capturing the packet stream.



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8.3.6.3 CONFIG

PLANET Retworking & Communication						
VIP-2020PT	AUTO PROVISION SYSLOG CONFIG UPDATE ACCESS REBOOT					
9 BASIC	ave Configuration					
i NETWORK	Click "Save" button to save the configuration files! Save					
: VOIP	ackup Configuration					
> PHONE	Save all network and VOIP settings. Right Click here to Save as Config File(.bxt)					
FUNCTION KEY	Right Click here to Save as Config File(.xml)					
> MAINTENANCE	ear Configuration Click the "Clear" button to clear the configuration files!					
* SECURITY	Clear					
Config Setting						
Field name	Explanation					
	User can save all changes of configurations. Click the Save					
Save Configuration	button, all changes of configuration will be saved, and be					
	effective immediately.					
	Right clicks on "Right click here" and select "Save Target As					
Backup Configuration	config File(.txt)" then User will save the config file in .txt format,					
	or select "Save Target As config File(.xml)" then User will save					
	the config file in .xml format.					
	User can restore factory default configuration and reboot the					
	phone.					
Clear Configuration	If User login as Admin, the phone will reset all configurations and					
	restore factory default; if User login as Guest, the phone will					
	reset all configurations except for VoIP accounts (SIP1-2 and					
	IAX2) and version number.					

8.3.6.4 UPDATE

User can update User configuration with User config file in this web page.



					VIP-2020F		
AUTO PROVISION	SYSLOG	CONFIG	UPDATE	ACCESS	REBOOT		
Web Update							
Sel	ect File:	Brow	/se (*.z,*.txt,*.xm	nl,*.au,*.vcf,*.csv,*.	wav) Update		
TFTP/FTP Update							
Server Addres	s						
User							
Password					Apply		
File Name					Арріу		
Туре		Application Update	• 💙				
Protocol		FTP 💌					
Update Logo File							
		Select File:		Browse	odate		
Delete Logo File							
		Select File:	*	Delete			
Logo File							
Update							
Field name	E	Explanation					
Web Update							
Web Update	r F	Click the browse provided by many press "Update" to pdate file, logo p	ufacturer, dowi save. User ca	nload it to the p an also update	downloaded		
TFTP/FTP U	odate						
		Set the FTP/TFT	P server addre	ess for downloa	d/upload. The		
Server Addre	SS	Set the FTP/TFTP server address for download/upload. The address can be IP address or Domain name with subdirectory.					
User		Set the FTP serv					
Password		Set the FTP serv		•			
			•				
File name		Set the name of update file or config file. The default name is the MAC of the phone, such as 000102030405.					
					ownload config file		
	-		-		•		
which includes several modules that need to be imported. For example, Use							
	download a config file just to keep with SIP module. After reboot, other modules						
Note of system still use the previous setting and are not lost							

(1111)01-111101-01	
	Action type that system wants to execute:
	1. Application update: download system to update file.
Туре	2. Config file export: Upload the config file to FTP/TFTP server,
	name and save it.
	3. Config file import: Download the config file to phone from



	FTP/TFTP server. The configuration will be effective after the
	phone is reset.
	4. Phone book export (.vcf): Upload the phonebook file to
	FTP/TFTP server, name and save it.
	5. PhoneBook import (.vcf): Download the phonebook file to
	phone from FTP/TFTP server.
Protocol	Select FTP/TFTP server.
Update Logo File	
Select File	Specify the URL of the logo file.
Delete Logo File	
Select File	Select the logo that User wants to delete.
Logo File	
Logo File	Show the logo file.

8.3.6.5 ACCESS

User can add or delete user account, and change the authority of each user account in this web page.

AUTO PROVISION SYSLOG	6 CONFIG	UPDATE	ACCESS	REBOOT		
LCD Menu Password Settings						
Menu Password	•••			Apply		
Keyboard Lock Settings						
PIN to Lock						
Keyboard Password	•••			Apply		
Enable Keyboard Lock						
User Settings						
User			User Level			
admin			Root			
Add User						
User						
Password				Apply		
Confirm						
User Level	Root 💌					
User Management						
admin 💌		elete Modify				
Access Configuration						
Field name	Explanation					
Kowhoord Doppword	Set the passwor	d for entering t	he setting men	u of the phone by	у	
Keyboard Password	the phone's key board. The password is digit.					



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User	Settings	
	User	User Level
	admin	Root
	root	General

This table shows the current user existed.			
User	Set account user name.		
User Level	Set user level, Root user has the right to modify configuration, General can only read.		
Password	Set the password.		
Confirm	Confirm the password.		

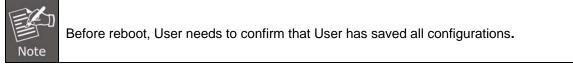
Select the account and click the **Modify** to modify the selected account, and click the **Delete** to delete the selected account.

General user only can add the user whose level is General.

8.3.6.6 REBOOT

AUTO PROVISION	SYSLOG	CONFIG	UPDATE	ACCESS	REBOOT
Reboot Phone		Click "Reboot"	button to restart th	e phone!	
			Reboot		

If User modified some configurations which need the phone's reboot to be effective, User need click the Reboot, then the phone will reboot immediately.





8.3.7 SECURITY

8.3.7.1 WEB FILTER

WEB FILTER	FIREWALL	NAT	VPN	SECURITY	
Web Filter Table					
Start IP Addre	SS	End I	P Address		Option
Web Filter Table S	ettings				
Start IP Addre	SS	End I	P Address		Add
Web Filter Setting					
Enable Web Fi	lter 🗌	A	pply		
WEB Filter					
User could m	ake some device	e own IP, which	n is pre-spe	cified, access to the	MMI of the
phone to conf	ig and manage t	he phone.			
Field name	Ex	olanation			
Web Filter Ta	ble Settings:				
Add or delete	the IP address	segments that	access to th	ne phone.	
Set initial IP a	ddress in the Sta	art IP column,	Set end IP a	address in the End I	P column, and
				lete to delete the se	
segment.	5				
Web Filter setting		ect it or not to	enable or d	isable Web Filter. C	lick Apply to
		ke it effective.			,
	not set User vision to the web.	ting IP outside	e the Web fil	ter range; otherwise	e, User cannot



8.3.7.2 FIREWALL

WEB FILTER	FIREWALL	IAT	VPN	SECURITY		
Firewall Type	Enable Input Rules 🗌	A	pply	Enable Output	Rules 🗌	
Firewall Input Rule T	able					
Index Deny/Pern	nit Protocol Src Address	Src Mask	Dest Address	Dest Mask	Range	Port
Firewall Output Rule	Table					
Index Deny/Pern	nit Protocol Src Address	Src Mask	Dest Address	Dest Mask	Range	Port
Firewall Settings						
Input/Output	Input 💌	Src A	ddress			
Deny/Permit	Deny 💌	Dest	Address			
Protocol	UDP 💌	Src N	1ask			Add
Port Range	more than 👻	Dest	Mask			
Rule Delete Option						
Input/Output	Input 💌	Inde	x To Be Deleted		(Delete
Firewall Config	guration					

In this web interface, User can set up firewall to prevent unauthorized Internet users from accessing private networks connected to the Internet (input rule), or prevent unauthorized private network devices from accessing the Internet (output rule).

Firewall supports two types of rules: input access rule and output access rule. Each type supports at most 10 items.

Through this web page, User could set up and enable/disable firewall with input/output rules. System could prevent unauthorized access, or access other networks set in rules for security. Firewall, is also called access list, is a simple implementation of a Cisco-like access list (firewall). It supports two access lists: one for filtering input packets, and the other for filtering output packets. Each kind of list could be added 10 items. We will give User an instance for User reference.

Field name	Explanation
Enable Input Rules	Select it to Enable Input Rules.
Enable Output Rules	Select it to Enable Output Rules.
Input / Output	Specify current adding rule by selecting input rule or output rule.
Deny / Permit	Specify current adding rule by selecting Deny rule or Permit rule.
Protocol	Filter protocol type. User can select TCP, UDP, ICMP, or IP.
Port Range	Set the filter Port range.
	Set source address. It can be single IP address, network
Src Address	address, complete address 0.0.0.0, or network address similar to
	..*.0.



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	Set the destination address. It can be IP address, network
Des Address	address, complete address 0.0.0.0, or network address similar to
	* * * *
	Set the source address' mask. For example, 255.255.255.255
Src Mask	means just point to one host; 255.255.255.0 means point to a
	network which network ID is C type.
	Set the destination address' mask. For example,
Dest Mask	255.255.255.255 means just point to one host; 255.255.255.0
	means point to a network which network ID is C type.

Click the Add button if User wants to add a new output rule.

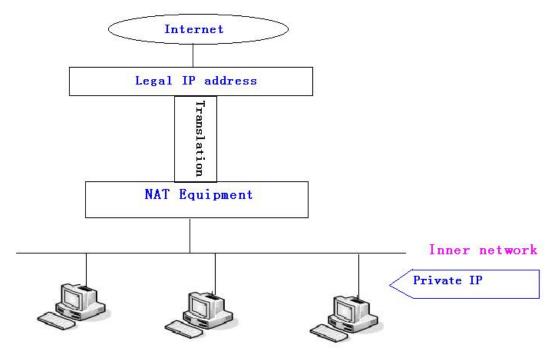
Then enable out access, and click the Apply button.

So when devices execute to ping 192.168.1.118, system will deny the request to send icmp request to 192.168.1.118 for the out access rule. But if devices ping other devices which network ID is 192.168.1.0, it will be normal.

Click the **Delete** button to delete the selected rule.

8.3.7.3 NAT

NAT is abbreviated from Net Address Translation; it's a protocol responsible for IP address translation. In other word, it is responsible for transforming IP and port of private network to public, also is the IP address mapping which we usually say.



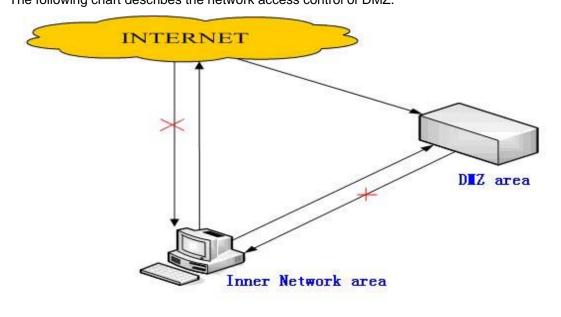
DMZ config:

In order to make some intranet equipment support better service for extranet, and make internal network security more effectively, these equipment open to extranet need be separated from the other equipment not open to extranet by the corresponding isolation method according to



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different demands. We can provide the different security level protection in terms of the different resources by building a DMZ region which can provide the network level protection for the equipment environment, reduce the risk which is caused by providing service to distrust customer, and is the best position to put public information The following chart describes the network access control of DMZ.



|--|

Application Layer Gateway (AL	.G) Settings				
IPSec ALG 🗹		PPTP ALG			
	Othi				
Network Address Translation (NAT) Table				
Inside IP Address	Inside TCP Port	Outside TCP Port			
Inside IP Address	Inside UDP Port	Outside UDP Port			
NAT Table Option Transfer Type To Inside IP Address	CP V Outside P Inside Po Add Delet	rt			
	DMZ Settings				
NAT Configuration					
Field name	Explanation				
	It is an encryption technology	. Select it to enable IPSec ALG, the			
IPSec ALG	default is enabled.				
	FTP is a service of connection	n layer which can transform intranet			



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FTP ALG	IP into extranet IP when intranet IP is sending out packet.
	Select it to enable FTP ALG, the default is enabled.
PPTP ALG	Select it enable PPTP ALG, the default is enabled.
Shows the NAT TCP ma	ipping table
Transfer Type	Select the NAT mapping protocol style, TCP or UDP
Inside IP	Set the IP address of device which is connected to LAN interface
Address	to do NAT mapping.
Inside Port	Set the LAN port of the NAT mapping
Outside Port	Set the WAN port of the NAT mapping
	setting, click the Add button to add new mapping table; click the o delete the selected mapping table.
Shows the outside WAN	port IP address and the inside LAN port IP address.
	aptivity means the network card, and other equipment physical



10M/100M adaptivity means the network card, and other equipment physical consultations speed, testing speed under bridge mode, which is closed to 100M. In order to ensure the quality of voice and communications in real-time performance, we have made some sacrifices of NAT under the transmission performance. Transmission is in full capacity only when system is idle, so it cannot be guaranteed that the transmission speed can reach100M.

8.3.7.4 VPN

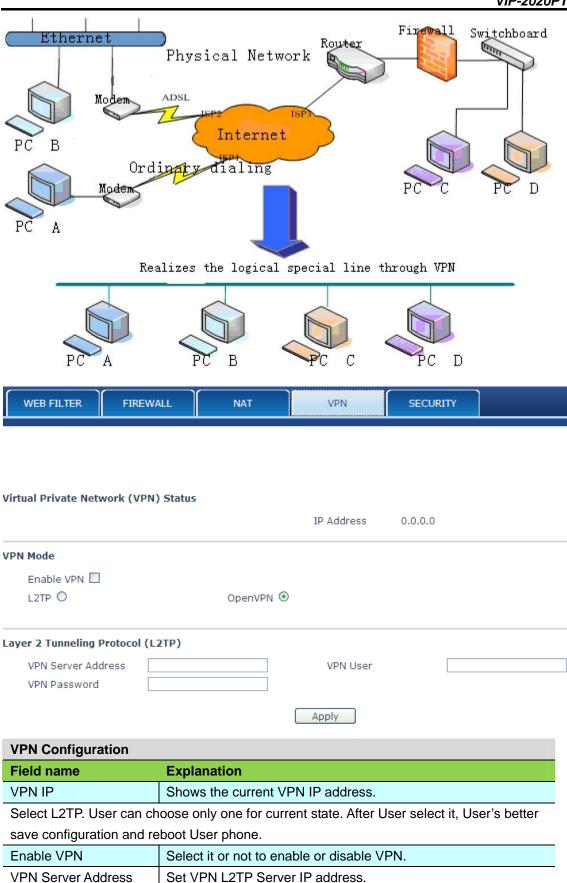
This web page provides us a safe connect mode by which we can make remote access to enterprise inner network from public network. That is to say, User can set it to connect public networks in different areas into inner network via a special tunnel.



VPN User

Enterprise HD PoE IP Phone

VIP-2020PT



Set User Name access to VPN L2TP Server.



VIP-2020PT

VPN Password

Set Password access to VPN L2TP Server.

8.3.7.5 SECURITY

WEB FILTER	FIREWALL	NAT	VPN	SECURITY
Update Security File				
	Select	Security File:		Browse Update
Delete Security File				
	Se	lect Security File:		V Delete
SIP TLS Files				
HTTPS Files				
OpenVPN Files				

Security	
Field name	Explanation
Update Security File	
Salaat Sagurity File	Select the security file User want to update, then click Update
Select Security File	button to update.
Delete Security File	
Salaat Sagurity File	Select the security file User want to delete, then click Delete
Select Security File	button to update.
SIP TLS File	Show SIP TLS authentication certification file.
HTTPS File	Show HTTPS authentication certification file.
Open VPN Files	Show Open VPN File authentication certification file.

8.3.8 LOGOUT

Logout

Click "Logout" button to logout the system!

Click Logout ' and User will exit web page. If User want to enter it next time, User need input

user name and password again.

9 Appendix

Keypad	Character	Keypad	Character
	1 @	Pars	7 P Q R S p q r s
(2) ABC	2 A B C a b c	82	8 T U V t u v
3 Der	3 D E F d e f	9 wxvz	9 W X Y Z w x y z
4 GHI	4 G H I g h i	*	*/.
5	5 J K L j k I	0	0
6 MNO	6 M N O m n o	#	#/SEND

9.1 Digit-character map table

9.2 Frequently Asked Questions List

Q1: No operation after power 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.
Q2: No dial tone?
A2: Check if the handset cord is properly connected.
Q3: Cannot make a call?
A3: Check the status of your SIP registration status or contact your administrator, supplier, or ITSP for more information or assistance.
Q4: Cannot receive any phone call?
A4 : Check the status of your SIP registration status, or contact your administrator, supplier, or ITSP for more information or assistance
Q5: No voice during an active call?

A5: Check if the servers support the current audio codec type, or contact your administrator, supplier, or ITSP for more information or assistance.

Q6: Cannot connect to the configuration website?

A6: Check if the Ethernet cable is properly connected.

Check if the URL is right; 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 browser such as Firefox or Mozilla, or contact your administrator, supplier, or ITSP for more information or assistance.

Q7: Forget the password?

A7: Default password of website and menu is null.

If user changes the password and then forget it, or you cannot access to the configuration website or the menu items need password.

Solution:

Factory default: press Menu button and choose 16Factory Default and then a notice will appear, choose OK by using the corresponding softkey button.

If you choose factory default, you will return the phone to the original factory settings and will erase ALL current settings, including the directory and call logs.

Q7: How to switch to different line to dial out?

A7: Before dialing out, press the correspondence line number you want to use. For example, if User wants to use Line 2 to dial out, please press Line 2.



Q8: How to set up the BLF function in the VIP-2020PT?

A8: Before we start, please be reminded your IPPBX must also support BLF function.

In Function key / EXT Key.

Type: please chose Memory Key

Value: your BLF extension

Line: choose which line you want to use BLF function

Subtype: BLF

Pick up Number: choose your IPPBX to pick up code + Extension number

Expansion I	Module Selection	n							
Expan	sion Module 1 💌						Load	Not C	Connected
Key	Туре		Value		Line	S	ubtype	Pickup I	Number
F 1	Memory Key	▶ 80	1		SIP1 🗸	BLF	*	*7801	
F 2	Memory Key	▼ 80	4		SIP1 🗸	BLF	~	*7804	
F 3	None	~			AUTO 🗸	None	~		
F 4	None	~			AUTO 🗸	None	~		
	to register	VIP-2	020PT to II	PX-210	0?				
A9: [In IPX-2 For exter	1 00] nsions, pleas	se cre	ate a new a	ccount	and rem	ember the	ir user nam	e and pa	ssword.
▶ Home		Exte	ns			Edit			×
 Operator 			General						
Basic			SIP:	×		IAX2:			
► Extens	ions	Exte	en Name:	800		Extension:	800		
▶ Trunks			Password:	123456		Outbound CII			
• Outbou	Ind Routes	Nev	/ DialPlan: Voicemail	DialPlar	า1 🚩	Analog Phone	e: Non	e 💌	
Inbound	Control	Exte	Noicemail:	~		VM Password	: 1234	-	-
Advanced	i		Delete VMail	:		Email(Fax/Voi	icemail):		ns
Network	Settings		Other Optio	_					it it
Security			Veb Manage Allow Being S		Agent: Pickup G	roup: 1 🔽	Call Waitin	ig: 🗌	it
Report			Mobility Exte				nber:		it
System			VoIP Setting	js				_	it
			NAT:			t: UDP 💌	SRTI	P:	it
			OTMF Mode: Video Option		*	Permit IP:			it it
			1 Video Call:						it
			□H.261 □H.	.263 🗆 H.2	263+ 🗆 H.2	64			
			Audio Codec						
			Malaw Mula	w 🖾 G.722		_G.726	1 🔲 Speex		
					Sa	ve Cancel			
SIP line: Server a Server p Authentio	2020PT] / SIP page, choose the ddress: the I ort: Server re cation user: 2 : (the extens	line yo PX-21 egiste 800 (tl	ou want to re 00 IP addre r port defaul ne extension	egister ess It is 506 n you ci	0 reate in				
Display r	name: the na	me vo	ou want to d	lisplay o	on phone	e screen w	hen pressir	na the line	button
									button
After sav	ing the mod	ificatio	on, the "succ	cesstully	y registe	red" status	s will be dis	played.	

VIP-2020PT	SIP IAX2	STUN	DIAL PEER	
ASIC				
	SIP Line SIP 2	~		
ETWORK	Basic Settings >>			
HOLD	Status	Registered	Domain Realm	
VOIP	Server Address	192.168.1.198	Proxy Server Address	
HONE	Server Port	5060	Proxy Server Port	
HONE	Authentication User	800	Proxy User	
UNCTION KEY	Authentication Password	•••••	Proxy Password	
UNUTION RET	SIP User	800	Backup Proxy Server Address	
AINTENANCE	Display Name	800	Backup Proxy Server Port	5060
HITTENHITTE	Enable Registration	V	Server Name	
ECURITY	Codecs Settings >>			
	couecs settings >>			