

SIP IP Phone VIP-154T/VIP-154PT/VIP-154NT

User's manual

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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.

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Revision

User's Manual for PLANET SIP IP Phone: Model: VIP-154T/VIP-154PT/VIP-154NT

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Chapter 1

Introduction

Overview

Meeting the next-generation Internet telephony service demands, PLANET Technology provides feature-rich, toll-quality Internet telephony service solutions. The built-in PSTN interface provides user more convenience between IP Phone and PSTN call selections. - VIP-154NT. With 802.3af Power over Ethernet (PoE) IP Phone - VIP-154PT. And the VIP-154T is the cost-effective SIP IP Phone; the VIP-154 series are SIP 2.0 (RFC3261) compliant with SIP digest authentication supports.

The VIP-154T / VIP-154PT / VIP-154NT ("**IP Phone**" in the following term, unless specified) features high-quality speakerphone technology, and includes an easy-to-use speaker on/off button and call hold/transfer buttons for various voice services.

The IP Phone has additional features such as built-in PPPoE/DHCP clients, password-protected machine management, LCD menu display, speed-dial 3-way conference keys, hands-free speakerphone, last number redial, incoming message indicator, and user-intuitive web administration system.

The IP Phone is self-contained, service-integrated, intelligent phone features offering, and powerful voice processing power. The IP Phone can effortlessly deliver toll voice quality equivalent to the regular PSTN connections utilizing cutting-edge Quality of Service, echo cancellation, comfort noise generation (CNG) and voice compensation technology. Meanwhile, the dual Ethernet interfaces on the IP Phone allow users to install in an existing network location without interfering with desktop PC network connections. When installing the VIP-154T / VIP-154PT / VIP-154NT, SIP IP Phone with IPX-2000 (PLANET IP PBX system), the VIP-154 series IP phones can be easily integrated in your office; via the auto-config support for IPX-2000. No expertise required building up the VoIP network deployment.

Besides, the IP Phones are ideal solution for office / home use as well as installation for Internet Telephony Service Provider (ITSP) from leading vendors. It's the delivery platform for IP voice services that makes benefit from the VoIP technologies in your daily life.

There are models for VIP-154T/VIP-154PT/VIP-154NT and there are:

VIP-154T: SIP IP Phone

VIP-154PT: 802.3af PoE SIP IP Phone

VIP-154NT: SIP IP Phone with PSTN connectivity

Product Features

• Built-in PSTN (VIP-154NT)

The built-in PSTN interface provides user more convenience between IP Phone and PSTN call selections easily

• Simple Installation and administration

Configuration of the IP Phone can be performed in minutes via the LCD menu keypad, telnet, or web interfaces. Using the built-in LCD display, the IP Phone offers user-friendly configuration guidelines, machine operation status, call status displays, and incoming call identification.

• IP PBX system integration

Via *auto-config* support for IPX-2000, no expertise required to establish your office voice network. VIP-154 series can help you to complete VoIP network deployment in minutes.

Feature-rich keypad IP Phone

The IP Phone integrates a high-quality speakerphone with the Call Hold, Forward, Transfer and Waiting functions and also provides advanced telephone features, such as 4 speed-dial keys, 3-way conference key, last number redial, incoming call history indicator in a much more convenient and functional manner than traditional telephone sets.

• Dynamic IP address assignment, and voice communication

The IP Phone can act as a PPPoE/DHCP client, automatically obtaining an IP address for Internet access.

Various field applications compliant

The IP Phone is capable of handling peer-to-peer and SIP proxy / IP PBX registration, authentication to interact with major IP PBX/SIP gateway/IP Phone in the market. The IP Phone offers the most flexibility and interoperability with PLANET and 3rd party VoIP vendors, allowing the deployment of both simple and complex VoIP networks such as ITSP, PC-to-Phone/Phone-to-PC or enterprise VoIP environments.

• Standards compliant

The IP Phone complies with SIP 2.0 (RFC3261), interoperates with 3rd party SIP voice gateways/terminal/software as well as other PLANET VoIP products. Supported Voice codecs and VoIP technologies are: G.723, G.729ab, G.711u-law/a-law; Voice Activity Detection (VAD), and the Confort Noise Generation (CNG).

VoIP Features

- SIP 2.0 (RFC3261) compliant
- Peer-to-Peer / SIP proxy calls
- Voice codec support: G.711, G.723.1, G.726, G.729A, G.729B
- Voice processing: Voice Active Detection, DTMF detection/ generation, G.168 echo cancellation (16mSec.), Comfort noise generation
- In band and out-of-band DTMF support

Package Content

The contents of your product should contain the following items:

VoIP IP Phone

Power adapter

Quick Installation Guide

User's Manual CD

RJ-45 cable x 1

Physical Details

The following figure illustrates the front/rear panel of IP Phone.

Rear View



Rear Panel of VIP-154T



Rear Panel of VIP-154PT



Rear Panel of VIP-154NT

1	RESET	Reset to the factory default setting
2	12V DC	12V DC Power input outlet
3	PC	RJ-45 connector, to maintain the existing network structure, connected directly to the PC through straight CAT-5 cable
4	LAN	RJ-45 connector, for Internet access, connected directly to Switch/Hub through straight CAT-5 cable. The LAN interface also can be connected with 802.3af PoE switch or injector for power supply (VIP-154PT)
5	LINE	RJ-11 connector, connected directly to the PSTN analog line. Press 0 * to switch to PSTN mode. (VIP-154NT only)

(i) Note

- 1. IP Phone default IP is http://192.168.0.1. Press **RESET** button on rear panel over 5 seconds will reset the VoIP IP Phone to factory default value. (Except speed dial and call forward settings)
- 2. For VIP-154PT, either PoE or AC adapter can be deployed at one time $\,$

Front View and Keypad function



Keypad Description

1	LCD Display	Menu and all status shall be displayed for users.
	Speed Dial	To make a speed dial call by pressing the speed dial key M1 ~
2	M1~M4	M4.
3	MENU	To bring out the menu selection while IP Phone is in idle state.
4	Vol +/	To increase the volume of voice when at off-hooked state.
4	VOI +/	To page up menu when at configuration mode.
5	Vol - /	To decrease the volume of voice when at off-hooked state.
J	¥01 - 7	To page down menu when at configuration mode.
6	ОК	To be used as confirm configuration or enter sub-menu.

7	Phone Book	Enter the phone book selection.	
8	MESSAGE	Press this button can enter the voicemail service.	
9	TRANSFER	To transfer an active call (incoming call answered or outgoing call accepted) to another devices.	
10	CONF	Press this button can make 3-way conference function.	
11	FWD	To carry out forward function.	
12	DEL/MUTE	Press to delete digits when at configuration mode or input phone numbers. Press to mute sounds when at talk mode.	
13	Redial	Press to dial the last dialed number when the IP Phone is off-hooked.	
14	Handfree	To switch between the usage of the handset and the speaker devices.	
15	Hold	To hold the conversation.	
16	Call Log	Show the calls history.	

i Hint

- In default machine operation, the VIP-154NT is VoIP mode. If you want to make a PSTN phone call, press the "0*" key to switch to PSTN mode.
- For IP Phone, it can register to three different SIP Proxy servers at the same time. The Realm 2 and Realm 3 are backup purpose. It can receive any one of different SIP accounts incoming call, if users want to select the Realm 2 or Realm 3 of accounts for making outgoing calls. Please press the "*2" or "*3" key to switch to other SIP Proxy servers for make outgoing calls from Realm 2 or Realm3.
- If the IP address of the remote calling party is known, you may directly make calls via its IP address and end with a "#".

Chapter 2

Preparations & Installation

Physical Installation Requirement

This chapter illustrates basic installation of IP Phone

- Network cables. Use standard 10/100Base-TX network (UTP) cables with RJ45 connectors.
- TCP/IP protocol must be installed on all PCs.

For Internet Access, an Internet Access account with an ISP, and either of a DSL or Cable modem

Administration Interface

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

Web configuration access

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

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

Default IP address of IP Phone is **192.168.0.1**. You may now open your web browser, and insert http://192.168.0.1 in the address bar of your web browser to logon IP Phone web configuration page.



IP Phone will prompt for logon username/password, please enter: **root** / **null** (not password) to continue machine administration.

① Note

In order to connect machine for administration, please locate your PC in the same network segment (192.168.0.x) of IP Phone. If you're not familiar with TCP/IP, please refer to related chapter on user's manual CD or consult your network administrator for proper network configurations.

LAN IP address configuration via web configuration interface

Execute your web browser, and insert the IP address (**default: 192.168.0.1**) of IP Phone in the adddress bar. After logging on machine with username/password (default: **root / null**), browse to "**Network**" --> "**Network settings**" configuration menu:

Network Settings

You could configure the Network settings in this page.

IP Type:	● Fixed IP ○ DHCF	Client OPPPoE
IP:	192.168.0.1	
Mask:	255.255.255.0	
Gateway:	192.168.0.254	
DNS Server1:	168.95.192.1	
DNS Server2:	168.95.1.1	
MAC:	001122334455	

PPPoE Settings	
User Name:	
Password:	
	-

Submit

Parameter Description

IP address LAN IP address of IP Phone

Default: 192.168.0.1

Subnet Mask LAN mask of IP Phone

Default: 255.255.255.0

Default Gateway Gateway of IP Phone

Default: 192.168.0.254

After confirming the modification you've done. Please click on the **Submit** button to apply settings and browse to "**Save & Reboot**" menu to reboot the machine to make the settings effective.

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



Please consult your ISP personnel to obtain proper PPPoE/IP address related information, and input carefully. If Internet connection cannot be established, please check the physical connection or contact the ISP service staff for support information.

Save Modification to Flash Memory

Most of the IP Phone parameters will take effective after you modify, but it is just temporary stored on RAM only, it will disappear after your reboot or power off the IP Phone, to save the parameters into Flash ROM and let it take effective forever, please remember to press the **Save & Reboot** button after you modify the parameters.

Save & Reboot You have to save changes to effect them. Save Changes: Save

Initialize IP Phone through LCD phone menus

STEP 1:

Power on machine, the LCD screen displays flashing greeting as below:

Starting		

STEP 2:

Wait for 10 seconds, the main LCD screen shall be shown as below, and when the Internet access is available, the IP phone will connect to the SNTP server. The current time will be displayed on the LCD.

Date Time No service

LCD screen of VIP-154 series

STEP 3:

Press **MENU** to enter configuration mode then press **OK** button to enter sub menus; press **CANCEL** can jump out current menu to previous level.

	MENU	Description
1 Phone Book 1.1 Search: Search Phone Book.		1.1 Search: Search Phone Book.
•	I Holic Book	1.2 Add entry: Add new phone number to phone book.
		1.3 Speed dial: Add speed dial phone number to speed dial list.
		1.4 Erase all: Erase all phone number from Phone Book.
2 Call history 2.1 Incoming calls: Show all incoming call 2.2 Dialed numbers: Show all dialed call.		2.1 Incoming calls: Show all incoming call.
		2.2 Dialed numbers: Show all dialed call.
		2.3 Erase record: Delete call history.
		2.4 All: Delete all call history.
		2.4.1 Incoming: Delete all incoming call.
		2.4.2 Dialed: Delete all dialed out call.

3	Phone setting	3.1 Call forward	
		3.1.1 All Forward 3.1.1.1 Activation: To Enabled/Disabled this function.	
		3.1.1.2 Number: Forward to a Speed Dial Number.	
		3.1.2 Busy Forward	
		3.1.2.1 Activation: To Enabled/Disabled this function.	
		3.1.2.2 Number: Forward to a Speed Dial Number.	
		3.1.3 No Answer Forward	
		3.1.3.1 Activation: To Enabled/Disabled this function.	
		3.1.3.2 Number: Forward to a Speed Dial Number.	
		3.1.4 Ring Timeout: Set the Ring times to start the no answer	
		forward function, ex: 2 means after 2 rings then forward to	
		the dedicated number.	
		3.2 Block Setting	
		3.2.1 All: To Enabled/Disabled this function.	
		3.2.2 By Time: To Enabled/Disabled this function.	
		3.2.3 Duration: Set the block time. 3.3 Date/Time setting: Date and Time Setting.	
		3.3.1 Date & Time: Set the IP Phone Date and Time.	
		3.3.2 SNTP setting	
		3.3.2.1 SNTP: Enabled / Disable SNTP.	
		3.3.2.2 Primary SNTP: Set Primary SNTP server IP address.	
		3.3.2.3 Secondary SNTP: Set Secondary SNTP server IP	
		address.	
		3.3.2.4 Time zone: Set Time zone.	
		3.3.2.5 Adjustment Time: Set adjustment time period.	
		3.4 Volume and Gain	
		3.4.1 Handset volume: Set Handset volume from 0~15 (max.) for	
		you to hear. 3.4.2 Speaker volume: Set Spearer phone volume from 0~15	
		(max.) for you to hear.	
		3.4.3 Handset Gain: Set Handset Gain from 0~15 (max.) for the	
		other site to haer.	
		3.4.4 Speaker Gain: Set Spearer phone Gain from 0~15 (max.) for	
		the other site to haer.	
		3.5 Ringer	
		3.5.1 Ringer volume: Ringer volume setting from 0~15 (max.).	
		3.5.2 Ringer type: Ringer tone selection from 1~4.	
		3.6 Auto Dial: Set Auto Dial time from 3~9 seconds.	
		3.7 Pick up	
		3.8 Voicm Mall	
4	Network	4.1 IP Setup	
	NOUVOIR	4.1.1 IP Type	
		4.1.2 Fixed IP client	
		4.1.2.1 IP Address / Subnet mask / Default Gateway	
		4.1.3 DHCP client 4.1.3.1 User name / Password	
		4.1.4 PPPoE client:	
		4.1.4.1 PPPoE setting	
		4.1.4.2 User name / Password	
		4.2 DNS	
		4.2.1 Primary DNS /	
		4.2.2 Secondary DNS	
<u> </u>		4.3 Status: Show LAN IP address and MAC address	
5	SIP Settings	5.1.1 If you want to use Kaypad to set the SIP setting, you have to	
		go to item 7 (Administrator) System Authent to input the password (Default is "null" (not password)), or you can not	
		change the SIP setting.	

		5.1.2 Service domain / Second realm / Third realm	
		5.1.2.1 First / Second / Third realm	
		5.1.2.1.1 Activation	
		5.1.2.1.2 User name	
		5.1.2.1.3 Display name	
		5.1.2.1.4 Register name	
		5.1.2.1.5 Register password	
		5.1.2.1.6 Proxy server	
		5.1.2.1.7 Domain server	
		5.1.2.1.8 Outbound proxy	
		5.1.3 Codec	
		5.1.3.1 Codec type	
		5.1.3.1.1 G.711 uLaw	
		5.1.3.1.2 G.711 aLaw	
		5.1.3.1.3 G.723	
		5.1.3.1.4 G.729	
		5.1.3.1.5 G.726-16	
		5.1.3.1.6 G.726-24	
		5.1.3.1.7 G.726-32	
		5.1.3.1.8 G.726-40	
		5.1.3.2 VAD: Voice Active Detection Enable/Disable	
		5.1.4 RTP setting	
		5.1.4.1 Outband DTMF	
		5.1.4.2 Duplicate RTP	
		5.1.4.3 No duplicate	
		5.1.4.4 One duplicate	
		5.1.4.5 Two duplicate	
		5.1.5 RPort Setting: RPort Enabled/Disabled	
		5.1.6 Hold by RFC	
		5.1.7 Status: Show the SIP Proxy registers status. You can use	
		UP/Down key to check each Realm's status	
		5.1.7.1 First Realm / Second Realm / Third Realm	
6	NAT	6.1.1 STUN setting	
٦	IIAI	6.1.1.1 STUN: STUN Enabled/Disabled	
	Transversal	6.1.1.2 STUN server	
_	A -l!!t	7.1.1 Auto Config	
7	Administrator	7.1.1.1 Config Mode: You can select	
		Disable/TFTP/FTP/HTTP/IP-PBX to do the auto config	
		function. This function must work with the Auto Config	
		Server.	
		7.1.1.2 TFTP server: Setting the TFTP server IP address.	
		7.1.1.3 FTP server: Setting the FTP server IP address.	
		7.1.1.4 FTP Login Name: Setting the login name to the FTP	
		server.	
		7.1.1.5 FTP Password: Setting the Password to the FTP	
		_	
		Server.	
		7.1.2 Default setting: You can restore to the default setting	
		7.1.3 System Authentication: To do the SIP setting from Keypad,	
		need to input the password first. Default is "null" (not	
		password).	
		7.1.4 Version: This will show the system's firmware version.	
1		7.1.5 Restart: You can use this function to restart your IP Phone	

Chapter 3

Network Service Configurations

Configuringnd monitoring your IP Phone from web browser

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

Overview on the web interface of IP Phone

With web graphical user interface, you may have:

- More comprehensive setting feels than traditional command line interface.
- Provides user input data fields, check boxes, and for changing machine configuration settings
- Displays machine running configuration

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

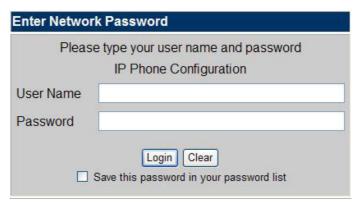
- Netscape Communicator 4.03 or higher
- Microsoft Internet Explorer 4.01 or higher with Java support

Manipulation of IP Phone via web browser

Log on IP Phone via web browser

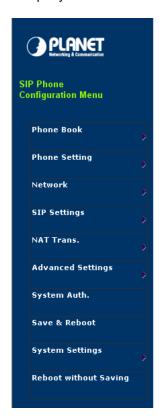
After TCP/IP configurations on your PC, you may now open your web browser, and input http://192.168.0.1 to logon IP Phone web configuration page.

IP Phone will prompt for logon username/password: root / null (not password)



IP Phone log in page

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





IP Phone main page

Chapter 4

IP Phone Configurations

Phone Book settings

IP Phone can set up 140 records of Phone Book. User can make calls via **Phone Book** feature of IP Phone.

Phone Book You could add/delete items in current phone book. Phone Book Page: page 1 Phone 0 1 2 3 4 Delete Selected Delete All Reset Add New Phone Position: (0~139) Name: URL: Add Phone Reset

Field	Description	
Phone Book Bogo	The default is Page 1. It can select Page1 ~ Page 14	
Phone Book Page	to look round Phone Book records.	
Phone	The record number from 0 ~ 139, it can set up 140	
Phone	records in total.	
Name	The name of Phone Book records, it only can input	

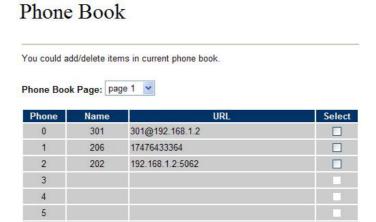
	numerals.
URL	Fill in the outgoing number (Line Number) or IP address.
Select	To select this record.

If you need to add a phone number into the Phone Book list, you need to input the position, the name, and the phone number (by URL type). When you finished a new phone list, just click the "Add Phone" button.

If you want to delete a phone number, you can select the phone number you want to delete then click "Delete Selected" button.

If you want to delete all phone numbers, you can click "Delete All" button.

For example:



STEP 1:

IP Phone had added the above phone numbers. User press **Phone Book** button from keypad then the LCD screen will show below:

Delete All

Search:	[3]	

Delete Selected

STEP 2:

Press OK button to enter the Phone Book menu. The LCD screen will show the Phone Book records pervious made.

00	202	
01	206	

STEP 3:

Selecting the recorder you want to dial and press OK button. It sill show the detail information as below:

STEP 4:

Pick up the telephone handset or press Handfree button to dial to this telephone.

Speed Dial settings

In Speed Dial setting function you can add/delete Speed Dial number. You can input maximum 10 entries speed dial list. You can setup the Speed Dial number. If you want to use Speed Dial you just dial the speed dial number (from **0~9**) and follow the "#" key.

If you need to add a phone number into the Speed Dial list, you need to input the position, the name, and the phone number (by URL type). When you finished a new phone list, just click the "Add Phone" button.

If you want to delete a phone number, you can select the phone number you want to delete then click "Delete Selected" button.

If you want to delete all phone numbers, you can click "Delete All" button.

Speed Dial Phone List

Call Forward

This page defines Call Forward function. You can setup the phone number you want to forward in this page. There are three type of Forward mode. You can choose All Forward, Busy Forward, and No Answer Forward by click the icon:

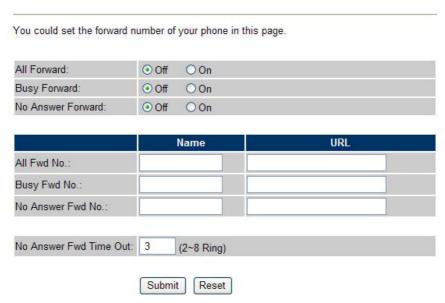
All Forward: All incoming call will forward to the number you chosen. You can input the name and the phone number in URL field. If you select this function, then all the incoming call will direct forward to the speed dial number you choose.

Busy Forward: If you are on the phone, the new incoming call will forward to the number you choosed. You can input the name and the phone number in URL field.

No Answer Forward: If you can not answer the phone, the incoming call will forward to the number you chosen. You can input the name and the phone number in URL field. Also you have to set the Time Out time for system to start to forward the call to the number you choosed.

When you finished the setting, please click the Submit button.

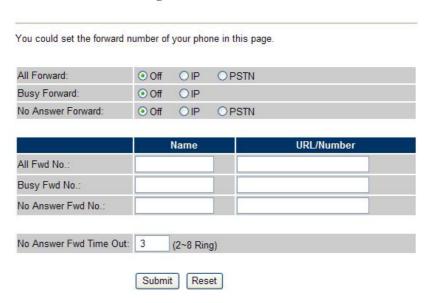
Forward Settings



Call Forward function for VIP-154T/VIP-154PT

Call Forward to PSTN (VIP-154NT): VIP-154NT not only supports Call Forward to IP calls, but also can forward the calls to PSTN. You can choose the Call Forward type with PSTN, and then input the name and the PSTN number in URL/Number field.

Forward Settings



Call Forward function for VIP-154NT

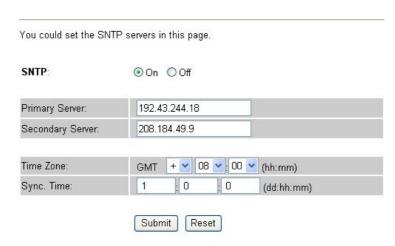
SNTP settings

This page defines the primary and second SNTP server IP address, to get the date/time information.

Also you can base on your location to set the Time Zone, and how long need to synchronize again.

When you finished the setting, please click the Submit button.

SNTP Settings



Volume Setting

This page defines the Handset Volume, Ringer Volume, and the Handset Gain. When you finished the setting, please click the Submit button.

Handset Volume is to set the volume for you can hear from the handset.(Handfree mode)

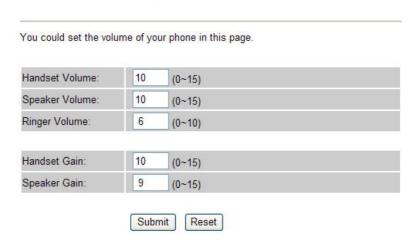
Speaker Volume is to set the volume for you can hear from the speaker.

Ringer Volume is to set the ringer volume for you can hear.

Handset Gain is to set the volume send out to the other side's handset.

Speaker Gain is to set the volume send out to the other side's handset from the microphone. (Handfree mode)

Volume Settings



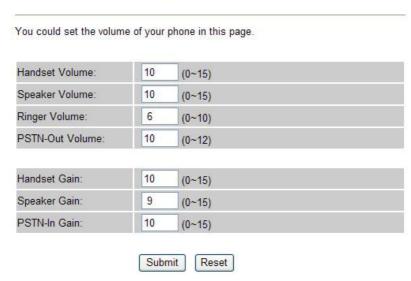
Volume Settings for VIP-154T/VIP-154PT

Beside the above settings, VIP-154NT also can set the volume of PSTN.

PSTN-Out Volume is to set the volume for you can hear from the PSTN line.

PSTN-In Gain is to set the volume send out to the other PSTN side's haneset.

Volume Settings



Volume Settings for VIP-154NT

Ringer Setting

This page defines the user can set the tinkle of bells when someone ring your IP Phone. If want to set ringer, it need to enable Ringer function and select the Ringer Type you wanted. There are four Ringer Types can be chosen. When you finished the setting, please click the Submit button.

Ringer Settings



Block Setting

This page defines the Block Setting to keep the phone slience. You can choose Always Block or Block a period.

Always Block: All incoming call will be blocked until disable this feature.

Block Period: Set a time period and the phone will be blocked during the time period. If the "**From**" time is large than the "**To**" time, the Block time will from Day 1 to Day 2.

When you finished the setting, please click the Submit button.

Block Setting

Always Block:	OOn	⊙ Off	
Block Period:	OOn	⊙ Off	
From:	00	100	(hh:mm)
To:	00	00	(hh:mm)

Auto Answer settings (For VIP-154NT)

This page defines the Auto Answer function. You can set the Auto Answer function to answer the incoming call by the phone. If the call is come from the IP, then the VIP-154NT can let user to redial the call to PSTN phone number. If the call is coming from PSTN, then the VIP-154NT can let user to redial to IP Phone number.

Auto Answer Counter is to set after the ring count met the number you set then the auto answer will enable.

For security issue, you'd better to set the PIN Code. If you have set the PIN code, you will hear a tone to inform you input the PIN Code then you can dial out.

Auto Answer

	adition and the control of the contr
Auto Answer:	On ⊙Off
Auto Answer Counter:	03 (2~15)
PIN Code Enabled:	On ⊙Off
PIN Code:	

Dial Plan Settings

This page defines the Dial Plan Setting function. This function is when you input the phone number by the keypad but you don't need to press "#". After time out the system will dial directly.

Dial Plan Settings

You could set the dial plan in this page. Replace prefix code: ⊙ On ○ Off 001+006+009 Replace rule: -> 005 Dial Plan: *xx+#xx+10x+11x+xxxxxxxx Auto Prefix: (0000~9999) Prefix Unset Plan: 1+0+xxxx+xxxxx Auto Dial Time: (3~9 sec) Submit Reset

Symbol Explan:

Digits	Description
X or X	0, 1, 2, 3, 4, 5, 6, 7, 8, 9
+	or

Replace rule: If replace prefix code function is ON and prefix number is matched with rule then 005 will replace prefix.

Auto Dial Time: Stop dialing after seconds then send dial number out.

Dial Plan: When match with pattern then send dial number out but if fisrt digit is '0' then dial plan will be ignored.

For example:

Digits	Description
*xx	If matched with one of *00,*01*99 then will send number out
#xx	If matched with one of #00,#01#99 then will send number out
10x	If matched with one of 100,101109 then will send number out
11x	If matched with one of 110,111119 then will send number out
Xxxxxxx	If dial with 8 digits then send number out

Auto Prefix: Number for add before dial number.

Prefix Unset Plan: When first digit or dial numeb match with pattern then ignore auto prefix.

Digits	Description
0	lignore auto prefix if first digit is '0'
1	Ignore auto prefix if first digit is '1'
xxxx	dial numbers are 4 digits ignore auto prefix
Xxxxx	dial numbers are 5 digits ignore auto prefix

When you finished the setting, please click the Submit button.

Flash Time Setting (For VIP-154NT)

When you use the VIP-154NT and you need to press the Hook to do the Flash (Switch to the other phone line or HOLD), this function is for you to set the time you press the Hook to represent the Flash function.

Flash Time Settings

Flash Time:	65	(Range:1~200, Unit:10ms)	
-------------	----	--------------------------	--

Call waiting Settings

When you are talking with other people, you can choose If you want to hear the notice when there is a new coming call. If the call waiting function is On, if there is a new incomeing call, you will hear the call waiting notice in your current call. If you set the function to Off, then you will not hear any notice.

Call Waiting Settings

You could enab	le/disable the call waiting setting in this page.
Call Waiting:	⊙ On ○ Off
	Submit Reset

Voice Mail Settings

This page defines the voice mail key function. When device register to IP PBX and it support Voice Mail System. It can set up the voice mail number in advanced, and press the "**MESSAGE**" button from keypad. It will enter for voice mail system.

Voice Mail Settings



DDNS Settings

This page defines the DDNS setting in this page. You need to have the DDNS account and input the informations properly. You can have a DDNS account with a public IP address then others can call you via the DDNS account. But now most of the VoIP applications are work with a SIP Proxy Server. When you finished the setting, please click the Submit button.

DDNS Settings



Service Domain Settings

This router comes with the built-in firewall based on the advanced technology of Stateful Packet In Service Domain Function you need to input the account and the related informations in this page, please refer to your ISP provider. You can register three SIP account in the Phon. You can dial the VoIP phone to your friends via first enable SIP account and receive the phone from these three SIP accounts.

First you need click Active to enable the Service Domain, then you can input the following items:

Display Name: you can input the name you want to display.

User Name: you need to input the User Name get from your ISP.

Register Name: you need to input the Register Name get from your ISP.

Register Password: you need to input the Register Password get from your ISP.

Domain Server: you need to input the Domain Server get from your ISP.

Proxy Server: you need to input the Proxy Server get from your ISP.

Outbound Proxy: you need to input the Outbound Proxy get from your ISP. If your ISP does not provide the information, then you can skip this item.

You can see the Register Status in the Status item. If the item shows "Registered", then your Phone Adapter is registered to the ISP, you can make a phone call directly.

If you have more than one SIP account, you can following the steps to register to the other ISP. When you finished the setting, please click the Submit button.

Service Domain Settings

You could set information of service domains in this page.

Realm 1 (Default)		
Active:	On ⊙Off	
Display Name:		
Line Number:	1001	
Register Name:		
Register Password:		
Domain Server:		
Proxy Server:		
Outbound Proxy:		
Status:	Not Registered	

Note N

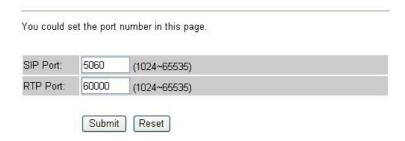
For IP Phone can register to three different SIP Proxy servers at the same time. The Realm 2 and Realm 3 are backup purpose. It can receive any one of different SIP accounts incoming call, if users want to select the Realm 2 or Realm 3 of accounts for making outgoing calls. Please press the "*2" or "*3" key to switch to other SIP Proxy servers for make outgoing calls from Realm 2 or Realm3.

Meanwhile, when the Realm 1 account is failed, the Realm 2 will be available for outgoing calls services. (When the Realm 1 is effective, the Realm 2 cannot be used for dialing out.)

Port Settings

This page defines the SIP and RTP port number in this page. Each ISP provider will have different SIP/RTPport setting, please refer to the ISP to setup the port number correctly. When you finished the setting, please click the Submit button.

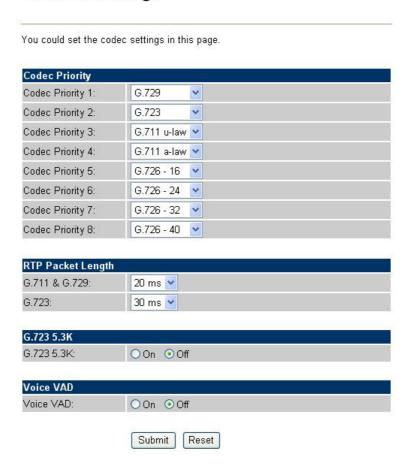
Port Settings



Codec Settings

This page defines the Codec priority, RTP packet length, and VAD function in this page. You need to follow the ISP suggestion to setup these items. When you finished the setting, please click the Submit button.

Codec Settings



Codec ID Setting

This page defines the Codec ID. Sometimes 2 VoIP devices with different Codec ID will cause the interopability issue. If you are talking with others got some problems, you may ask the other one what kind of Codec ID he use then you can change your Codec ID. When you finished the setting, please click the Submit button.

Codec ID Settings

You could set the value of Codec ID in this page.

Codec Type	ID		Default Value
G726-16 ID:	23	(95~255)	☑ 23
G726-24 ID:	22	(95~255)	☑ 22
G726-32 ID:	2	(95~255)	☑ 2
G726-40 ID:	21	(95~255)	☑ 21
RFC 2833 ID:	101	(95~255)	☑ 101

Submit Reset

DTMF Settings

This page defines the DTMF parameters. Yyou can setup the RFC-2833, Inband and Send DTMF SIP Info in this page. To change this setting, please follow your ISP information. When you finished the setting, please click the Submit button.

DTMF Settings

You could set the DTMF Settings in this page.	
⊙ 2833	
O Inband DTMF	
O Send DTMF SIP Info	

RPort Settings

This page defines the RPort Enable/Disable in this page. To change this setting, please following your ISP information. When you finished the setting, please click the Submit button.

RPort Settings

You could er	nable/disable the RPort setting in this page.
RPort:	○ On
	Submit Reset

Other Settings

This page defines the Hold by RFC, Voice/SIP QoS and SIP expire time in this page. To change these settings please following your ISP information. When you finished the setting, please click the Submit button. The QoS setting is to set the voice packets' priority. If you set the value higher than 0, then the voice packets will get the higher priority to the Internet. But the QoS function still need to cooperate with the others Internet devices.

Other Settings

Hold by RFC:	On ⊙Off		
Voice QoS:	40 (0~63)		
SIP QoS:	40 (0~63)		
SIP Expire Time:	3600 (60~86400 sec)		

STUN settings

This page defines the STUN Enable/Disable and STUN Server IP address in this page. This function can help your Phone Adapter working properly behind NAT. To change these settings please following your ISP information. When you finished the setting, please click the Submit button.

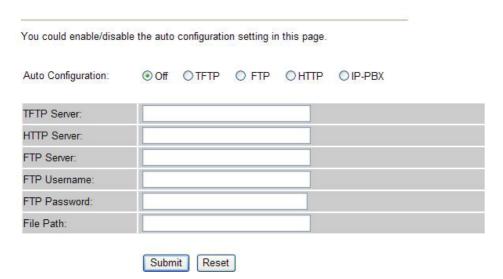
STUN Settings



Auto Configuration

This page defines the Auto Configuration (Auto Provision) setting. IP Phone supports TFTP, FTP, HTTP and IP PBX auto configuration function in total. In IP PBX auto configuration setting you need to check with your service provider if they have provided this function. Usually this function will be bounden with an IP PBX to use in the office.

Auto Configuration Settings



PTT Settings (For VIP-154NT)

This page defines the PTT settings. When VIP-154NT connected to different country's PSTN Line, you have to set the country's setting to meet the requirement. When you finished the setting, please click the Submit button.

PTT Settings You could select the PTT setting for different country in this page. PSTN-PTT: USA

Reset

Submit

Country Settings

This page defines the ICMP echo Enable/Disable. This function can disable echo when someone ping this device, it can avoid haker try to attack the device. When you finished the setting, please click the Submit button.

ICMP Settings You could enable/disable the ICMP setting in this page. ICMP Not Echo: On Off Submit Reset

System Authority

In System Authority you can change your login password.



Save & Reboot

In Save & Reboot you can save the changes you have done. If you want to use new setting in the IP Phone, you have to click the Save button. After you click the Save button, the IP Phone will automatically restart and the new setting will effect.

Save & Reboot

You have to save changes to effect them.

Save Changes: Save

Firmware Upgrade

In Firmware Upgrade function you can update new firmware via HTTP in this page. You can ugrade the firmware by the following steps:

Select the firmware code type, AP or DSP code.

Click the "**Browse**" button in the right side of the File Location or you can type the correct path and the filename in File Location blank.

Select the correct file you want to download to the Phone Adapter then click the Update button.

Firmware Upgrade

You could update	e the newest firmware.	
Code Type:	⊙AP ○DSP	
File Location:		Browse
	Update Reset	

Note N

For technological consideration, we've strongly suggested refering to the following upgrade methods for update your IP Phone.

Firmware Upgrade methods:

Please find the firmware of IP Phone, and be sure to check the firmware upgrade steps to load the firmware into machine properly for revolutions.

- a) Log in IP Phone via Microsoft Internet explorer web browser, and insert http://IP Phone IP address/update.htm in the address bar.
- b) Select update "All ROM", and browse to the firmware location.
- c) Please find the firmware (decompress and find the *.rom file for upgrade)
- d) After firmware loaded, the unit will be reboot, and loaded with factory default values.
- e) Default IP address of the customized firmware: http://192.168.0.1; login name/password: root/null (no password)

Reset to Default

In Default Setting you can restore the IP Phone to factory default in this page. You can just click the Restore button, then the IP Phone will restore to default and automatically restart again.

Reset to Default You could click the restore button to restore the factory settings. Reset to default: Restore

Reboot without saving

Reboot function you can restart the IP Phone. If you want to restart the IP Phone, you can just click the Reboot button, then the IP Phone will reboot automatically.

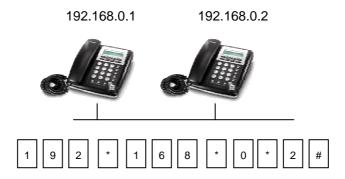
Reboot without Saving You could press the reboot button to restart the system. Reboot without Saving: Reboot

Appendix A Voice communications

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

Case 1: VIP-154T to VIP-154T connection via IP address

Assume there are two VIP-154T's in the network the IP address are 192.168.0.1, 192.168.0.2



Operation steps:

Pick up the VIP-154T A, you should be able to hear the dial tone, press the keypad: 192*168*0*2# shall be able to connect to the VIP-154T B.

Then the phone in 192.168.0.2 should ring. Please repeat the same dialing steps on VIP-154T B to establish the first voice communication from the second VIP-154T



- In default machine operation, the VIP-154NT is VoIP mode. If you want to make a PSTN phone call, press the "0*" key to switch to PSTN mode.
- If the IP address of the remote calling party is known, you may directly make calls via its IP address and end with an "#".
- If the IP Phones are installed behind a NAT/firewall/IP sharing device for Peer-to-Peer VoIP application, please make sure the NAT device support SIP applications before making calls

Case 2: Voice communication via SIP proxy server _SIP-50



■ VIP-154T IP Address: 192.168.0.1 ■ VIP-154T IP Address: 192.168.0.2

Line Number: 1001 Line Number: 2002

Machine configuration on the VIP-154T:

STEP 1:

Log in SIP-50 and create two testing accounts/password: 1001/123 (for VIP-154T A), and 1002/123(for VIP-154T B) for the voice calls.

STEP 2:

Please log in VIP-154T A via web browser, browse to the **SIP setting** menu and select the **Domain Service** config menu. In the setting page, please insert the account/password information obtained from your service provider (in this sample, we're using PLANET SIP-50 as the SIP Proxy server for SIP account, call authentications), and then the sample configuration screen is shown below:

Service Domain Settings

You could set information of service domains in this page.

Realm 1 (Default) Active: ⊙ On ○ Off Display Name: 1001 Line Number: 1001 Register Name: planet Register Password: ••• Domain Server: 192.168.0.50 Proxy Server: 192.168.0.50 Outbound Proxy: Status Registered

STEP 3:

Repeat the same configuration steps on VIP-154T B, and check the machine registration status, make sure the registrations are completed.

Test the scenario:

To verify the VoIP communication, you may make calls from SIP client (VIP-154T A) 1001 to the number 1002 (VIP-154T B) or reversely make calls from SIP client (VIP-154T B) 1002 to the number 1001 (VIP-154T A)

Case 3: Voice communication via IP PBX system _ IPX-2000 (Auto-config)

In the following sample, we'll introduce how to integrate the IP Phone with our IP PBX system IPX-2000 via Auto-config feature.



■ VIP-154T IP Address: 192.168.0.1

Line Number: 1001

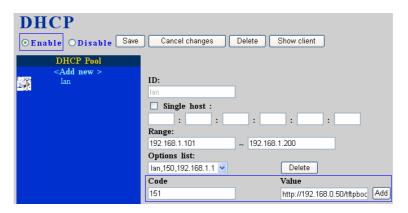
■ VIP-154T IP Address: 192.168.0.2

Line Number: 2002

Machine configuration on the IPX-2000

STEP 1:

Log in IPX-2000 and browse to the DHCP menu and create new options list for the auto configuration.



Code: please insert 151 as the DHCP server option.

Value: http://LAN IP of IPX-2000/tftpboot

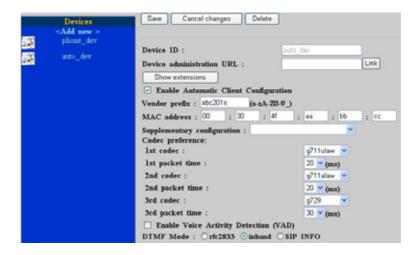
If you'd like to enable auto-config for IP extension features in IPX-2000, please be sure to setup the DHCP option code and the value information.

In most case, insert the optional code 151 and the value=http://192.168.0.50/tftpboot/

Note: the 192.168.0.50 is the IP address of IPX-2000

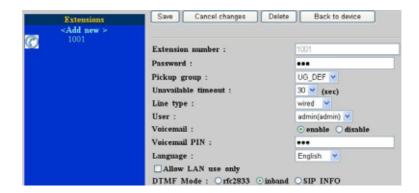
STEP 2:

Please browse to the Device menu and create new device for the auto configuration.



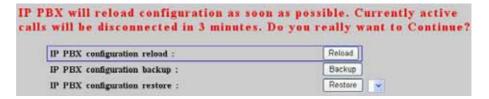
STEP 3:

Please press the Show extensions button to create the two extension accounts/password: 1001/123 (for VIP-154T A), and 1002/123(for VIP-154T B) for the voice calls.



STEP 4:

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



Machine configuration on the VIP-154T:

STEP 5:

Please log in VIP-154T A via web browser, browse to the **Advanced Settings** menu. In the setting page, please browse to the **Auto-config** page, and select to **IP-PBX** choice of the Auto Configuration features for IP PBX system.

Auto Configuration Settings

You could enable/disab	ole the auto configuration setting in this page.
Auto Configuration:	OOff OTFTP OFTP OHTTP ⊕IP-PBX
TFTP Server:	
HTTP Server:	
FTP Server:	
FTP Username:	
FTP Password:	
File Path:	

STEP 6:

After enabled the Auto-config feature, the VIP-154T A shall be able to obtain IP address and SIP extension information from IP PBX system IPX-2000 information. To verify the auto-config results, you may check the extension number from LCD display assigned by IPX-2000.

STEP 7:

Repeat the same configuration steps on VIP-154T B, and check if the VIP-154T B is successfully registered with the IPX-2000 as one of the IP extensions.

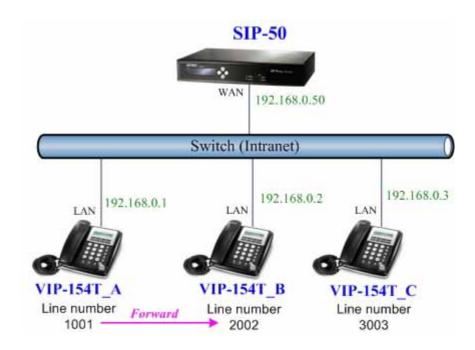
Test the scenario:

To verify the VoIP communication, you may make calls from extension side (VIP-154T A) 1001 to the number 1002 (VIP-154T B) or reversely make calls from extension client (VIP-154T B) 1002 to the number 1001 (VIP-154T A)

Case 4: Call Forward Feature _Example 1

In the following samples, we'll introduce the Call Forward Feature applications.

In this example, there are three VIP-154T register to SIP-50 and VIP-154T_A had set Call Forward function to VIP-154T_B. (The detail registration settings of SIP-50 and VIP-154T please refer to the instruction of Case 3)

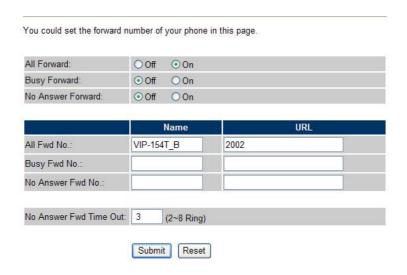


Machine configuration on the VIP-154T:

STEP 1:

Please log in VIP-154T_A via web browser, browse to the **Phone Settings** menu and select the **Call Forward** config menu. In the setting page, please enable the **All Forward** function and fill in the **Name** and **URL** of VIP-154T_B, then the sample configuration screen is shown below:

Forward Settings



STEP 2:

After set up completed and reboot machine, the LCD screen will show below:

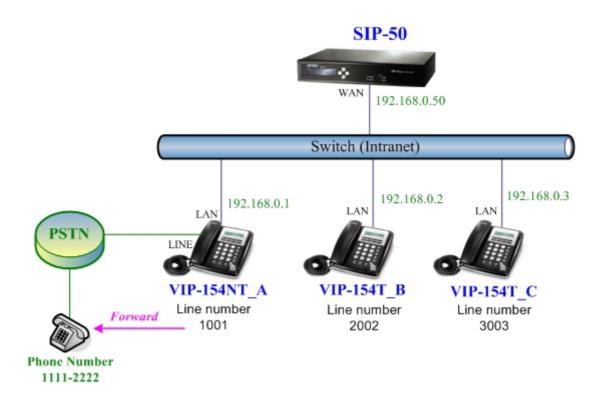
After 2~3 seconds, the LCD screen will show below:

Test the scenario:

VIP-154T_C pick up the telephone and dial the number 1001(VIP-154T_A), because VIP-154T_A had set up **All Forward** function to the number 2002(VIP-154T_B), so the number 2002(VIP-154T_B) will ring up then it pick up the telephone and communication with the number 3003(VIP-154T_C).

Case 5: Call Forward Feature_Example 2

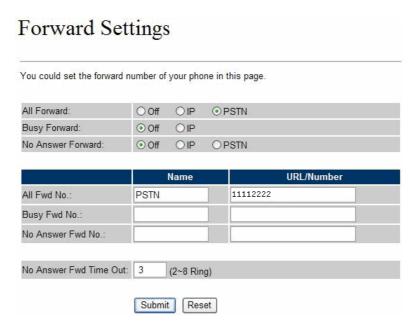
In this example, there are one VIP-154NT and two VIP-154T register to SIP-50. The VIP-154NT_A had set Call Forward function to phone number 1111-2222 (PSTN).



Machine configuration on the VIP-154NT:

STEP 1:

Please log in VIP-154NT_A via web browser, browse to the **Phone Settings** menu and select the **Call Forward** config menu. In the setting page, please select the **All Forward** function to **PSTN** choice and fill in the **Name** and **URL/Number** of PSTN Phone Number 11112222, then the sample configuration screen is shown below:



STEP 2:

After set up completed and reboot machine, the LCD screen will show below:

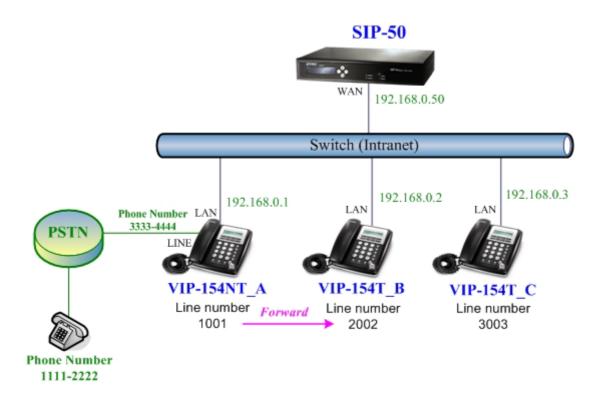
After 2~3 seconds, the LCD screen will show below:

Test the scenario:

VIP-154T_C pick up the telephone and dial the number 1001(VIP-154NT_A), because VIP-154NT_A had set up **All Forward** function to the PSTN Phone Number 11112222, so the PSTN Phone Number 11112222 will ring up then it pick up the telephone and communication with the number 3003(VIP-154T_C).

Case 6: Call Forward Feature_Example 3

In this example, there are one VIP-154NT and two VIP-154T register to SIP-50. The VIP-154NT_A had set Call Forward function to number 2002 (VIP-154T_B).

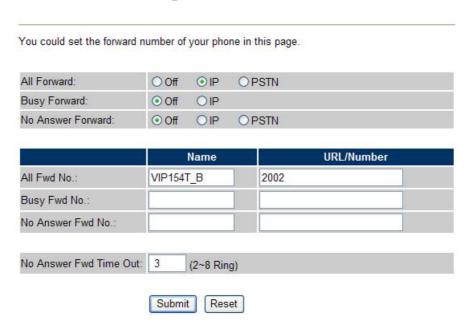


Machine configuration on the VIP-154NT:

STEP 1:

Please log in VIP-154NT_A via web browser, browse to the **Phone Settings** menu and select the **Call Forward** config menu. In the setting page, please select the **All Forward** function to **IP** choice and fill in the **Name** and **URL/Number** of VIP-154T_B, and then the sample configuration screen is shown below:

Forward Settings



STEP 2:

After set up completed and reboot machine, the LCD screen will show below:

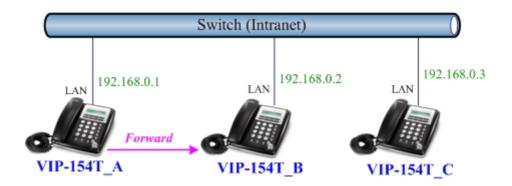
After 2~3 seconds, the LCD screen will show below:

Test the scenario:

PSTN Phone Number 11112222 pick up the telephone and dial the PSTN Phone Number 33334444(VIP-154NT_A), because VIP-154NT_A had set up **All Forward** function to the number 2002(VIP-154T_B), so the number 2002(VIP-154T_B) will ring up then it pick up the telephone and communication with the PSTN Phone Number 11112222.

Case 7: Call Forward Feature_Example 4

In this example, there are three VIP-154T and connect with Peer to Peer mode. VIP-154T_A had set Call Forward function to VIP-154T_B.



Machine configuration on the VIP-154T:

Forward Settings

STEP 1:

Please log in VIP-154T_A via web browser, browse to the **Phone Settings** menu and select the **Call Forward** config menu. In the setting page, please enable the **All Forward** function and fill in the **Name** and **URL** of VIP-154T_B, and then the sample configuration screen is shown below:

You could set the forward number of your phone in this page. All Forward: ⊙ On Off Busy Forward: Off On No Answer Forward: OOn URL Name All Fwd No. VIP-154_B 192.168.0.2 Busy Fwd No .: No Answer Fwd No. No Answer Fwd Time Out: 3 (2~8 Ring)

STEP 2:

After set up completed and reboot machine, the LCD screen will show below:

Reset



Submit

After 2~3 seconds, the LCD screen will show below:

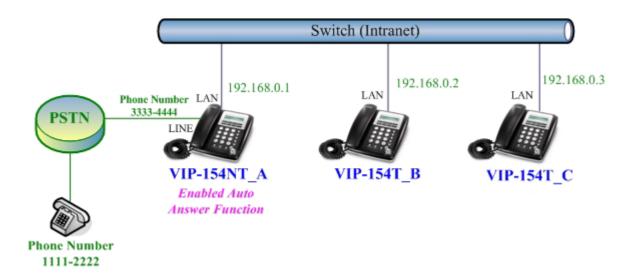
10-19	17:20	
AF 192	.168.0.2	

Test the scenario:

VIP-154T_C pick up the telephone and dial the IP Address 192.168.0.1(VIP-154T_A), because VIP-154T_A had set up **All Forward** function to the IP Address 192.168.0.2(VIP-154T_B), so the IP Address 192.168.0.2 (VIP-154T_B) will ring up then it pick up the telephone and communication with the VIP-154T_C.

Case 8: Auto Answer Feature_IP to PSTN

In this example, there are one VIP-154NT and two VIP-154T and connect with Peer to Peer mode. The VIP-154NT_A had set Auto Answer function for forwarding calls to arbitrary telephone. If there have incoming IP calls and VIP-154NT_A doesn't answer the incoming calls after specific time, the caller will hear prompt sounds to input the password then dial out an arbitrary PSTN telephone.

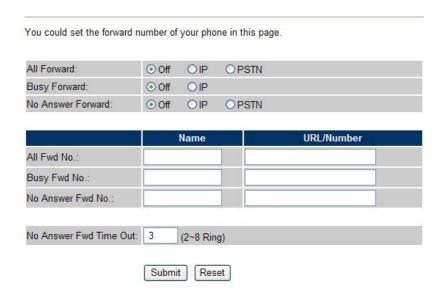


Machine configuration on the VIP-154NT:

STEP 1:

Please log in VIP-154NT_A via web browser, browse to the **Phone Settings** menu and select the **Call Forward** config menu. In the setting page, please disable All **Forward** function, and then the sample configuration screen is shown below:

Forward Setting



STEP 2:

Please log in VIP-154NT_A via web browser, browse to the **Phone Settings** menu and select the **Auto Answer** config menu. In the setting page, please enable the **Auto Answer** and **PIN Code Enabled** function, then the sample configuration screen is shown below:

Auto Answer

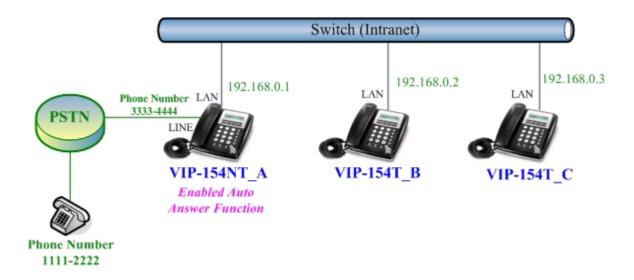
You could enable/disable t	he auto answer in this page.	
Auto Answer:	⊙ On ○ Off	
Auto Answer Counter:	03 (2~15)	
North Control		
PIN Code Enabled:	⊙ On ○ Off	
PIN Code:	123	

Test the scenario:

VIP-154T_C pick up the telephone and dial the IP Address 192.168.0.1(VIP-154NT_A), VIP-154NT will ring up but doesn't answer the call. After **3** rings, the VIP-154T_C will hear the prompt sounds then input the password **123#**. VIP-154T_C will hear the dial tone from PSTN line then input Phone Number 11112222. The Phone Number 11112222 will ring up then it picks up the telephone and communication with the VIP-154T_C.

Case 9: Auto Answer Feature_PSTN to IP

In this example, there are one VIP-154NT and two VIP-154T and connect with Peer to Peer mode. The VIP-154NT_A had set Auto Answer function for forwarding to arbitrary telephone. If there have incoming PSTN calls and VIP-154NT_A doesn't answer the incoming calls after specific time, the caller will hear prompt sounds to input the password and then dial out an arbitrary IP telephone.



Machine configuration on the VIP-154NT:

STEP 1:

Please log in VIP-154NT_A via web browser, browse to the **Phone Settings** menu and select the **Auto Answer** config menu. In the setting page, please enable the **Auto Answer** and **PIN Code Enabled** function, and then the sample configuration screen is shown below:

Auto Answer You could enable/disable the auto answer in this page. Auto Answer: On Off Auto Answer Counter: 03 (2~15) PIN Code Enabled: On Off PIN Code: Submit Reset

STEP 2:

Please log in VIP-154NT_A via web browser, browse to the **Phone Book** menu and select the **Speed Dial Settings** config menu. In the setting page, please add a speed dial number for dial to IP address 192.168.0.2 (VIP-154T_B), and then the sample configuration screen is shown below:

Speed Dial Phone List

You could set the speed dial phones in this page.

Phone	Name	URL	Select
0	VIP-154T_B	192.168.0.2	
1			
2			
3			
4			
5			
6			
7			
8			
9			

Test the scenario:

The Phone Number 11112222 pick up the telephone and dial the PSTN Phone Number 33334444(VIP-154NT_A), VIP-154NT will ring up but doesn't answer the call. After **3** rings, the Phone Number 11112222 will hear the prompt sounds then input the password **123#**. The Phone Number 11112222 will hear the dial tone then input **0#**. The IP address 192.168.0.2 (VIP-153T_B) will ring up then it pick up the telephone and communication with the Phone Number 11112222.

Appendix B VIP-154 Series Specifications

Product	SIP IP Phone	SIP PoE IP Phone	SIP IP Phone with PSTN connectivity	
Model	VIP-154T	VIP-154PT	VIP-154NT	
Hardware				
LAN	1 x 10/100Mbps RJ-45 port			
	Power Over Ethernet 802.3af compliant at VIP-154PT			
PC	1 x 10/100Mbps RJ-45	5 port		
Telephone Interface	1 x RJ-11			
	PSTN connectivity at VIP-154NT			
LCD display	2 x 16 characters			
Speaker	Full duplex hands free speaker phone			
Protocols and Standard				
Standard	SIP 2.0 (RFC3261), MD5 for SIP authentication (RFC2069/ RFC 2617), SIP outbound			
	proxy, SIP NAT Traversal Support STUN (RFC3489)			
Voice codec	G.711: 64k bit/s (PCM) G.723.1: 6.3k / 5.3k bit/s G.726: 16k / 24k / 32k / 40k bit/s (ADPCM) G.729A: 8k bit/s (CS-ACELP)			
	G.729B: adds VAD & CNG to G.729			
Voice Standard				
Comfort noise generation (CNG)				
	Acoustic echo canceller (AEC) G.165: Line echo canceller (LEC)			
	Jitter Buffer			
Supplementary	Caller ID			
services	3-way conference			
	Immediate (unconditio Busy call forwarding	nai) call forwarding		
	No answer calls forwa	rdina		
	Call Hold/Waiting/Tran	-		
Call history	Record incoming call	isiciting		
Call filotory	Outgoing call			
	Missed (not accepted) call history			
Protocols			DP/RTP/RTCP, HTTP, ICMP, ARP,	
	RARP, DNS, DHCP, SNTP, PPPoE			
Network and Configurat		·		
Access Mode	Static IP, PPPoE, DHCP			
Management	Web, LCD menu keypad, Telnet, auto-config by IPX-2000, auto-provision by			
	TFTP/FTP/HTTP			
Dimension (W x D x	170 mm x 220 mm x 6	0 mm		
H)				
Operating	0~50 degree C, 0~90%	% humidity		
Environment				
Power Requirement	12V DC			
		302.3af compliant at VIF	P-154PT	
EMC/EMI	CE, FCC Class B			