

WEB CONFIGURATION

Configuring and monitoring your VIP-101T from web browser

The VIP-101T 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.

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Overview on the web interface of VIP-101T

With web graphical user interface, you may have:

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

To start VIP-101T web configuration, you must have one of these web browsers installed on computer for management

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

Preparation before beginning web administration on VIP-101T

In this section, we'll introduce steps of how to setup a PC to communicate with VIP-101T through TCP/IP protocol configuration.

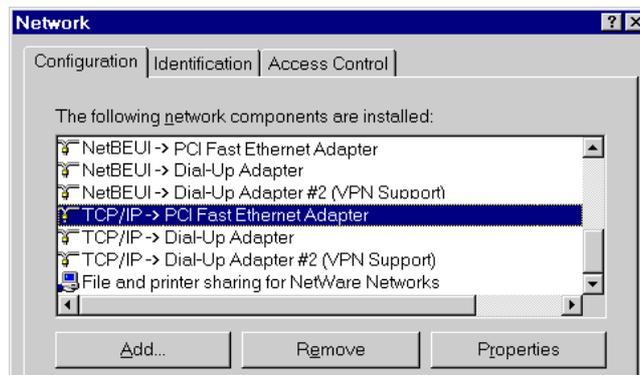
Before starting web browser to connect to VIP-101T, please check TCP/IP configurations on PC: the PC must be configured either as a DHCP client and or fixed IP allocation on the intranet or Internet. After ensuring TCP/IP configuration on the managing workstation, you may connect to web administration page of VIP-101T either from intranet, or Internet

Following are guidelines of setting up TCP/IP configurations on different OS platform

Checking TCP/IP settings on Windows 95/98

If there is no TCP/IP installed on your Windows 95 or Windows 98, you must add the protocol and change the settings on your PC.

Step 1 Open the **Control Panel**, and double-click the **Network** icon. The Network window appears

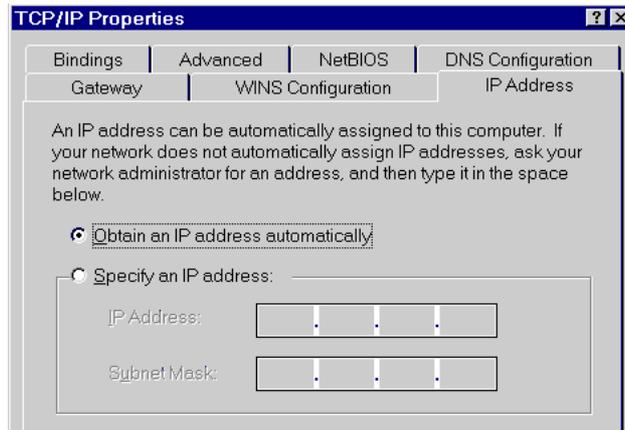


Step 2 If TCP/IP protocol shown in the network window, please continue to the next step. If it is not shown, please add TCP/IP protocol support as follows:

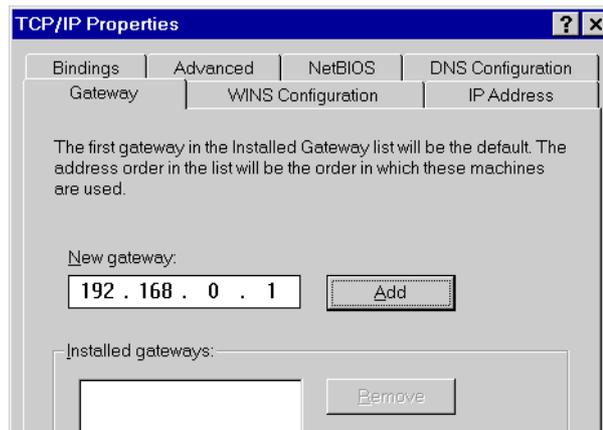
- a. Click **Add**.
- b. Double-click **Protocol** in the Select Network Component Type window, then the Select Network Protocol window appears.
- c. Choose **Microsoft** for the manufacturer.
- d. Choose **TCP/IP** for the network protocol.
- e. Click **OK**, and the Network window appears.

Step 3.1 Change the TCP/IP settings to use DHCP as follows (**DHCP environment**):

- a. Double-click the first TCP/IP cable icon. The TCP/IP Properties window appears.
- b. Verify that the IP Address tab has Obtain an IP address automatically selected and that the IP Address and Subnet Mask fields are grayed out.

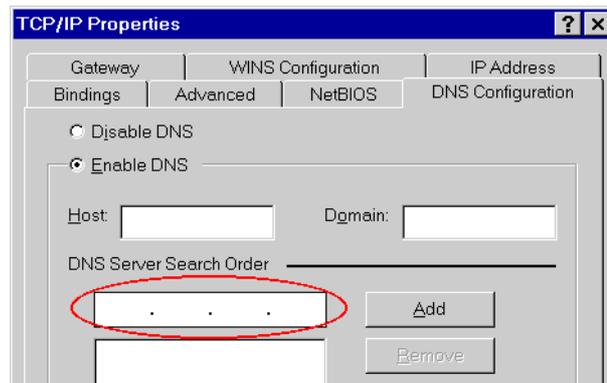


- Step 3.2** Change the TCP/IP settings to use DHCP as follows (**Fixed IP allocation**):
If there is no DHCP server in your network, please consult your network administrator the TCP/IP parameters of your PC, and insert the obtained data in IP address tab. To access different IP segment (for example, from LAN to Internet), you will need to assign the gateway and DNS (for Internet access) in your PC.



- Step 5** Add the DNS server given to you by your ISP or network administrator:
- a. Click the **DNS Configuration** tab.
 - b. Click **Enable DNS**.
 - c. Enter your host name in the **Host** field.
 - d. Enter your domain name in the **Domain** field.
 - e. Enter the IP address of the DNS server in the **DNS Server Search Order** field.

- f. Click **Add**. The IP address displays in the window below the field.

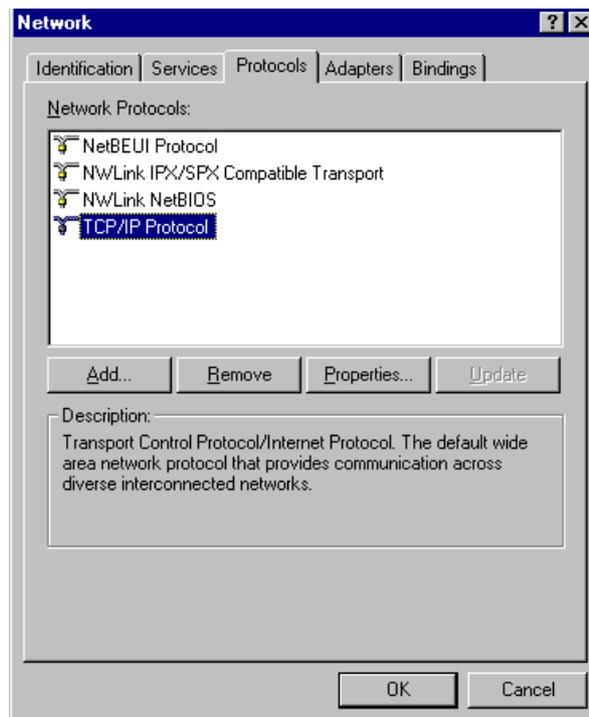


- Step 5** Click **OK**, and reboot machine to make the modifications effective in your PC.

Checking TCP/IP settings on Windows NT

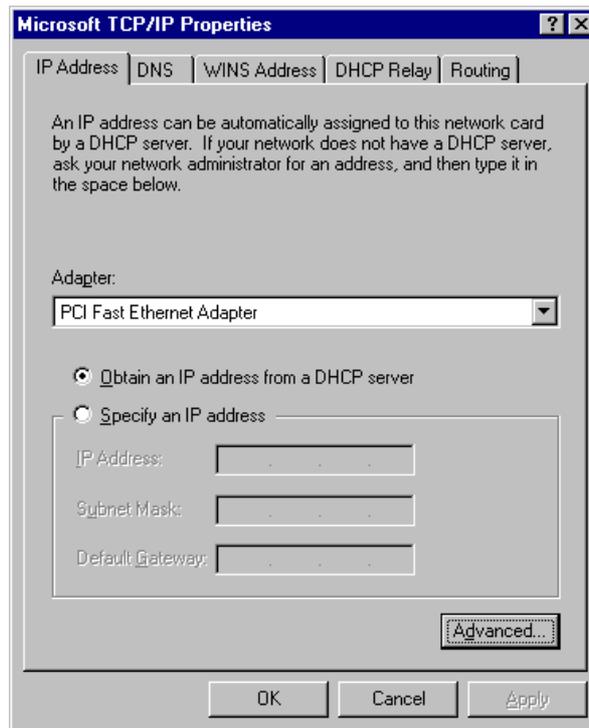
Obtain an IP address from a DHCP Server

Select *Control Panel - Network*, and, on the *Protocols* tab, select the TCP/IP protocol, as shown below.



Windows NT4.0 - TCP/IP

- a) Click the *Properties* button to see a screen like the one below.



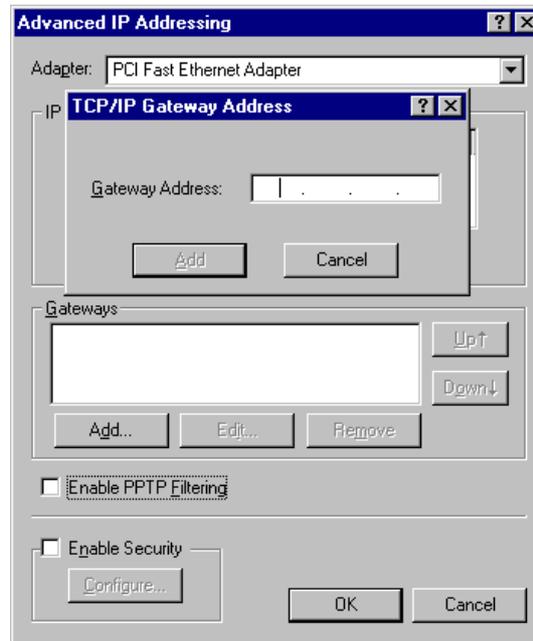
Windows NT4.0 - IP Address

- b) Select the network card for your LAN.
- c) Select the appropriate radio button - *Obtain an IP address from a DHCP Server* or *Specify an IP Address*, as explained.

Specify an IP Address

If your PC is already configured with an IP address, check with your network administrator before making the following changes.

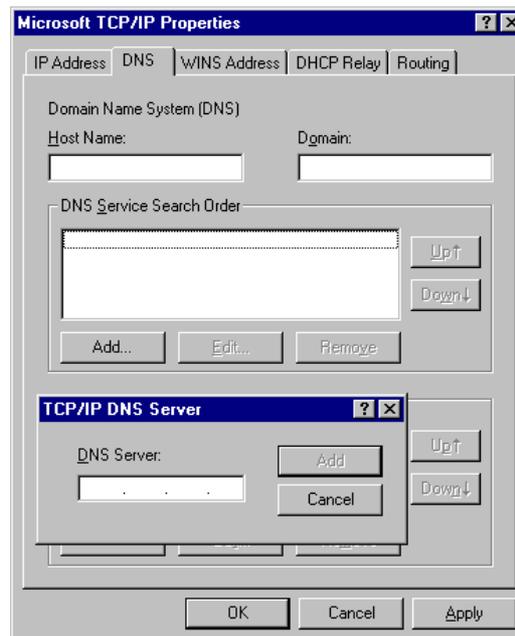
- a) The *Default Gateway* must be set to match your network environment. To set this:
 - Click the *Advanced* button on the screen above.
 - On the following screen, click the *Add* button in the *Gateways* panel, and enter gateway IP address, as shown below.
 - If necessary, use the *Up* button to make the inserted on the first entry in the *Gateways* list.



Windows NT4.0 - Add Gateway

b) The DNS should be set to the address provided by your ISP, as follows:

- Click the *DNS* tab.
- On the DNS screen, shown below, click the *Add* button (under *DNS Service Search Order*), and enter the DNS provided by your ISP.

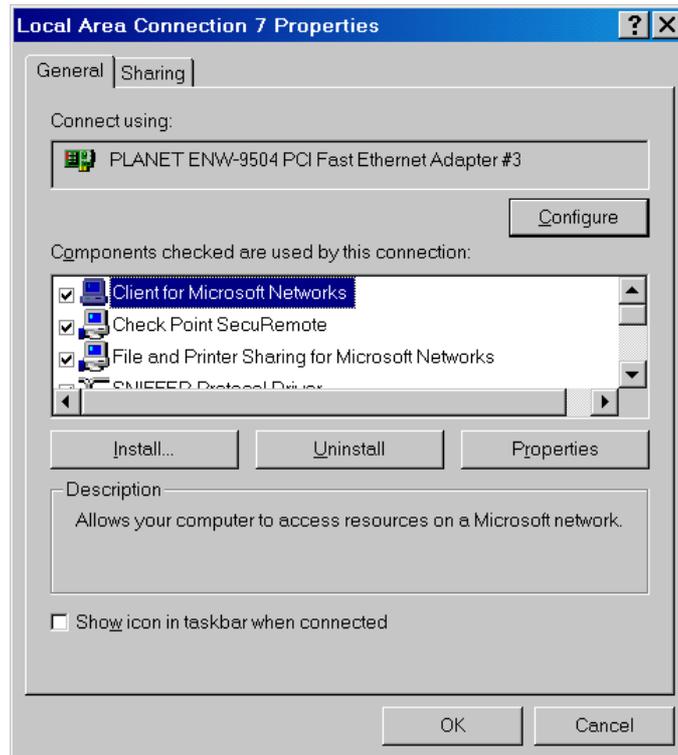


Windows NT4.0 - DNS

Checking TCP/IP Settings - Windows 2000:

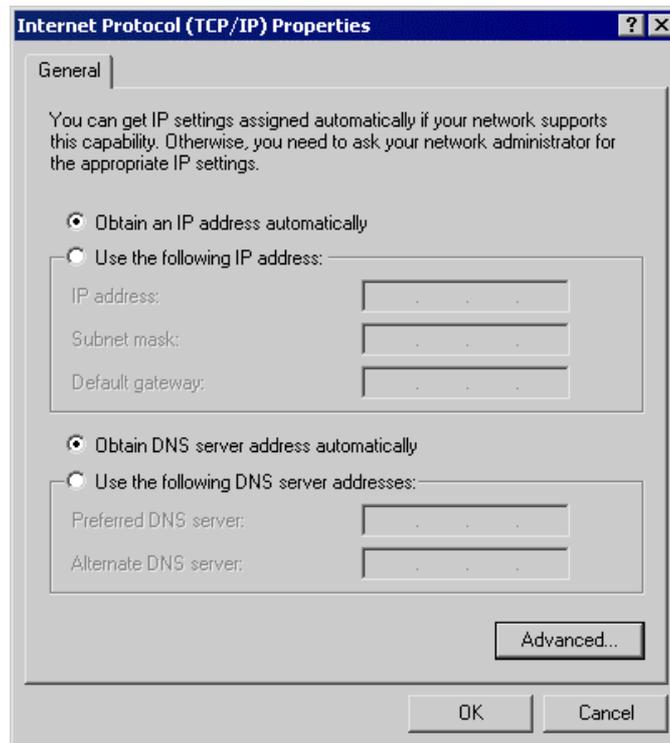
Select **Control Panel - Network and Dial-up Connection**.

- a) Right - click the **Local Area Connection** icon and select **Properties**. You should see a screen like the following:



Network Configuration (Win 2000)

- b) Select the **TCP/IP** protocol for your network card.
- c) Click on the **Properties** button. You should then see a screen like the following.



TCP/IP Properties (Win 2000)

Ensure your TCP/IP settings are correct with one of the following description.

Using DHCP

To use DHCP, select the radio button ***Obtain an IP Address automatically***. This is the default Windows setting. If your networking environment is a DHCP environment, ***Using this option is recommended***. Restart your PC to ensure it obtains an IP Address from DHCP server.

Using a fixed IP Address ("Use the following IP Address")

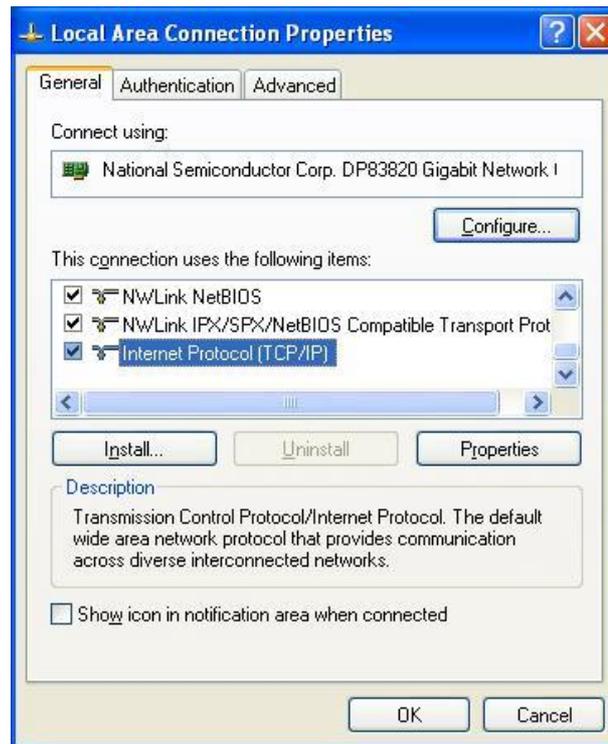
If your PC is already configured, check with your network administrator before making the following changes.

- Enter gateway IP address obtained from network administrator in the ***Default gateway*** field and click ***OK***. If the ***DNS Server*** fields are empty, select ***Use the following DNS server addresses***, and enter the DNS address obtained from network administrator or addresses provided by your ISP, then click ***OK***.

Checking TCP/IP Settings - Windows XP

Select *Control Panel - Network Connection*.

- a) Right - click the *Local Area Connection* icon and select *Properties*. You should see a screen like the following:



Network Configuration (Windows XP)

- b) Select the *TCP/IP* protocol for your network card.
- c) Click on the *Properties* button. You should then see a screen like the following.



TCP/IP Properties (Windows XP)

Ensure your TCP/IP settings are correct with one of the following description.

Using DHCP

To use DHCP, select the radio button **Obtain an IP Address automatically**. This is the default Windows setting. If your networking environment is a DHCP environment, **Using this option is recommended**. Restart your PC to ensure it obtains an IP Address from DHCP server.

Using a fixed IP Address ("Use the following IP Address")

If your PC is already configured, check with your network administrator before making the following changes.

Enter gateway IP address obtained from network administrator in the **Default gateway** field and click **OK**. If the **DNS Server** fields are empty, select **Use the following DNS server addresses**, and enter the DNS address obtained from network administrator or addresses provided by your ISP, then click **OK**.

Manipulation of VIP-101T via web browser

Log on VIP-101T via web browser

After TCP/IP configurations on your PC, you may now open your web browser, and input **192.168.0.1** to logon VIP-101T web configuration page.

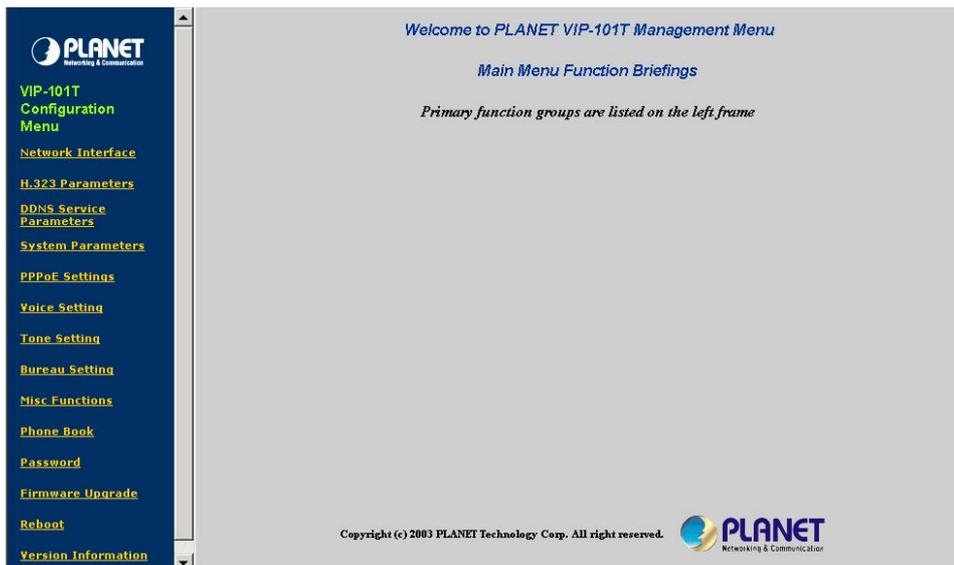
VIP-100T will prompt for logon username/password: **root** / null (without password)

VIP-101T logon page



Log on VIP-101T via username/password: root / null <without password>

VIP-101T main page



Start administration

When you browse the left control panel in VIP-101T web configuration, the main function menus are divided into three categories: **Network Configurations**, **H.323 configurations**, and **System configurations**. These major configuration menus have related sub-menus and parameters, following sections will give you an overall illustration of the functionality in VIP-101T.

Network Configurations

There are two sub configuration menus in this category:

i. Network Interface

Network Configuration	
DHCP Client:	<input type="radio"/> On <input checked="" type="radio"/> Off
IP Address:	192 . 168 . 0 . 1
Subnet Mask:	255 . 255 . 0 . 0
Default Gateway:	192 . 168 . 0 . 254
Primary Domain Name Server:	168 . 95 . 1 . 1
Secondary Domain Name Server:	168 . 95 . 1 . 1
SNTP:	<input checked="" type="radio"/> On <input type="radio"/> Off
SNTP Server Address:	213 . 91 . 2 . 137
GMT:	8
IP Sharing:	<input type="radio"/> On <input checked="" type="radio"/> Off
IP Sharing Server Address:	255 . 255 . 255 . 255
Management Center Address:	255 . 255 . 255 . 255
Done	

The **Network Interface** configuration menu is used to configure and display TCP/IP related information in VIP-101T.

Parameter Description

DHCP Client	Enable or disable DHCP client in VIP-101T Default: DHCP client in VIP-101T is disabled
IP, Subnet Mask, Default Gateway (255.255.255.255)	Current active IP, subnet mask, gateway address in VIP-101T Default: IP (192.168.0.1), Mask (255.255.255.0), Gateway
Primary, secondary DNS server	VIP-101T supports domain name resolution, you may configure DNS server IP address obtained from ISP or preferred DNS server. After configuring this, you may now connect or register to H.323 gateway/terminal/gatekeeper with easy-to-remember URL address instead of IP address. Default: Primary DNS (168.95.1.1), Secondary DNS (168.95.192.1)

i Hint

Please consult your network administrator or ISP personnel of DNS server IP address for best performance in name resolution.

SNTP Mode	SNTP support in VIP-101T is able to retrieve time information from specified timeserver in machine. Default: SNTP mode <i>enabled</i> , SNTP server IP address: 192.43.244.18
GMT	Specify time zone in your area to display proper local time information. Default: GMT +8
IP Sharing	This parameter is used to co-work VIP-101T in a NAT environment, you may enable IP sharing function and insert WAN IP address of the device to prevents one-way communication in NAT environment. Default: off
IP Sharing Server Address	Specify the WAN side IP address of the IP sharing device in NAT environment. Default: 255.255.255.255

ii. PPPoE Configuration

PPPoE Configuration	
PPPoE:	<input type="radio"/> On <input checked="" type="radio"/> Off
User Name:	<input type="text" value="pppoe"/>
Password:	<input type="text" value="*****"/>
Reboot After Remote Host Disconnection:	<input checked="" type="radio"/> On <input type="radio"/> Off
IP:	<input type="text"/>
Destination Host:	<input type="text"/>
Domain Name Server:	<input type="text"/>
Subnet Mask:	<input type="text"/>
Authenticate:	<input type="text"/>
Protocol:	<input type="text"/>
Device:	<input type="text"/>
<input type="button" value="Done"/>	

VIP-101T natively integrates with PPPoE client, this makes VIP-101T is able to establish Internet connection via popular ADSL access. The **PPPoE** configuration menu is used to configure and display PPPoE related information in VIP-101T.

Parameter Description

PPPoE client	Enable or disable PPPoE client in VIP-101T Default: PPPoE client in VIP-101T is disabled
Username	User name for PPPoE connection Default: pppoe
Password	Password for PPPoE connection Default: pppoe
Reboot After Remote Host Disconnection	If user enable this function, after PPPoE being disconnected unexpectedly, VIP-101T will automatically reboot to re-establish PPPoE connection.
Other PPPoE Information (IP address, mask, Gateway, DNS)	Display overall PPPoE online status information. When PPPoE connection established, related information (IP, gatewayetc.) will be displayed

i Hint

Please consult your ISP personnel to obtain proper PPPoE related information, and input carefully.
If Internet connection cannot be established, please check the VIP-101T LCD display or contact the ISP service staff for support information.

H.323 Configurations

There are four sub configuration menus: **H.323 configuration**, **Bureau setting**, **Misc Functions**, and **Phone Book** configurations in this category:

i. H.323 Configuration

H.323 Configuration	
Operation Mode:	<input type="radio"/> Gatekeeper Mode <input checked="" type="radio"/> Peer-to-Peer Mode
Gatekeeper IP Address:	<input type="text"/>
2nd Gatekeeper IP:	<input type="text"/>
Gatekeeper ID:	<input type="text"/>
Gatekeeper Discovery:	<input type="radio"/> On <input checked="" type="radio"/> Off
RAS Time To Live (TTL)(0~3600):	<input type="text" value="60"/>
Gatekeeper Discovery Port (1024~65535):	<input type="text" value="1718"/>
RAS Port (1024~65535):	<input type="text" value="1719"/>
E.164 Number 01:	<input type="text" value="1001"/>
E.164 Number 02:	<input type="text" value="x"/>
E.164 Number 03:	<input type="text" value="x"/>
E.164 Number 04:	<input type="text" value="x"/>
E.164 Number 05:	<input type="text" value="x"/>
E.164 Number 06:	<input type="text" value="x"/>
E.164 Number 07:	<input type="text" value="x"/>
E.164 Number 08:	<input type="text" value="x"/>
E.164 Number 09:	<input type="text" value="x"/>
E.164 Number 10:	<input type="text" value="x"/>
H.323 ID:	<input type="text" value="VIP-100T-0003CE"/>
Token Password:	<input type="text" value="x"/>
RTP Port (1024~65532):	<input type="text" value="16384"/>
Response Timeout (1~200):	<input type="text" value="5"/>
Connection Timeout (1~20000):	<input type="text" value="200"/>
<input type="button" value="Done"/>	

VIP-101T H.323 configuration page is used to display or configure H.323 parameters, these parameters are designed to meet most calling environment. It is strongly recommended not to modify these parameters on your own. If you met difficulty to establish communication toward destination call party, please consult ITSP engineering staff, experienced personnel or local distributor support staff for proper configuration.

Parameter Description

Operation Mode VIP-101T	Select H.323 voice communication mode: Gatekeeper or Peer-to-Peer in Default: Peer-to-Peer mode
Gatekeeper & 2 nd Gatekeeper IP address	Specify the primary and secondary Gatekeeper IP address or URL for VIP-101T to register with. Default: Null (This command has no default value.)
Gatekeeper ID	Specify the GK ID of the destination Gatekeeper Default: Null (This command has no default value.)
i Hint	Please consult your ITSP personnel to obtain proper Gatekeeper registra- tion information, and input carefully. If voice communication cannot be es- tablished in GK mode, please check the VIP-101T LCD display and contact the ISP service staff for support information.
Gatekeeper Discovery	Gatekeeper Discovery can be used to enable or disable auto discovery function in VIP-101T. If this function is enabled and IP address of Gate- keeper is set as 255.255.255.255, VIP-101T will co-work with command h323 -gkname to multicast searching a Gatekeeper on network segment with Gatekeeper ID/name configured Default: Null (This command has no default value.)
RAS Time To Live (TTL)	This parameter is used to set RAS TTL (time-to-live) time while machine performs registration toward Gatekeeper. Definable time range: 0-3600 second(s). Default: 60 seconds
Gatekeeper Discovery Port	This parameter is used to assign Gatekeeper discovery port number, de- finable port range: 1024-65535. Default: 1718
RAS Port	This parameter is used to assign Gatekeeper RAS port, definable port range: 1024-65535. The value should be adjusted to match the destination Gatekeeper configuration. Default: 1719
E.164 Number	Parameter E.164 is used to identify at least one number for VIP-101T to

(1 ~ 10) register with the destination Gatekeeper
Default: E.164 number 1: 1001, others are disabled with “x” mark.

i Hint

Please do not modify this parameter without assistance of a VoIP system administrator or ITSP personnel to obtain proper Gatekeeper related information, and input with care.

H.323 ID This parameter is used to identify H.323 ID for VIP-101T to register with Gatekeeper. Default H.323 ID is related to MAC address of VIP-101T, so each VIP-101T has different alias, which can register with GK without conflict.

Default: VIP-101T+(last 6 digits of machine MAC address)

Token Password To co-work in a H.235 security environment, VIP-101T is implemented the capability of sending RRQ/ARQ authentication token password to destination Gatekeeper for authentication purpose.

Default: x (lower case)

ë Note

Token password can be used while:

(1) **LCD menu password:** You may enter LCD system configuration by key in this password and default value is lowercase “x.” (press **TRANSFER** to switch lowercase and uppercase).

(2) **H.235 security:** To set RRQ/ARQ authentication token password. If VIP-101T wants to register to a Gatekeeper, which implement H.235 security token feature, VIP-101T has to set a RRQ/ARQ authentication token password, which is provided by Gatekeeper manager. VIP-101T can't work normally with this Gatekeeper unless Token Password is set.

RTP Port This parameter is used to assign RTP port number for voice packet transmission, definable port range: 1024-65535.

Default: 16384

Response Timeout This parameter is used to setup Max. waiting time for first response from destination call party during call setup process. If this value expired, you will hear busy tone from the handset or speaker phone. Range: 1-200 seconds.

Default: 5 seconds

Connection This parameter is used to setup Max. Waiting time for call establishment after

Timeout receiving first response during call setup process, definable time range:
1-20000 seconds.

Default: 200 seconds

ii. Bureau Configuration

This parameter is used while other call party supports H.450 Hold feature. If this feature is enabled, other call party will hear hold tone when "**HOLD**" button on VIP-101T keypad is pressed.



Bureau Setting

Hold Tone Generation (using PCM file): On Off

Done

Parameter Description

Hold Tone Generation Enable or disable H.450 hold function in VIP-101T

Default: H.450 hold feature in VIP-101T is enabled

i Hint

Please make sure the destination call party support H.450 feature, so that the Hold tone shall be heard while the **HOLD** key on VIP-101T keypad is pressed.

iii. Misc Configurations

Misc Configuration	
Fast Start:	<input type="radio"/> On <input checked="" type="radio"/> Off
H.245 Tunneling:	<input type="radio"/> On <input checked="" type="radio"/> Off
H.245 Seperate Channel:	<input checked="" type="radio"/> On <input type="radio"/> Off
<input type="button" value="Done"/>	

Parameters in Misc configuration page are used to adjust H.323 call setup related parameters.

Parameter Description

Fast start Enable or disable H.323 fast start mode. If you'd like to enable H.323 fast start mode in VIP-101T, please make sure the destination call party supports fast start mode as well.

Default: H.323 fast start mode is disabled.

H.245 Tunneling This parameter is used to enable or disable H.245 tunneling in VIP-101T.

Default: H.245 tunneling mode is disabled.

H.245 Separate Channel This parameter is used to setup if VIP-101T opens H.245 separate channel after H.323 fast start mode.

Default: H.245 separate channel mode is enabled.

i Hint

Before applying the changes, please make sure the destination call party support features listed in Misc configuration page to prevent communication failure.

Another method to establish the connection to a voice gateway is to dial the destination IP address + destination calling number.

For example, if you'd like to make calls from your VIP-101T to PLANET VIP-x00 voice gateway, supposing there is a telephone set connected to FXS port 0 (default number is 203) on PLANET VIP-400 (192.168.0.2). And you 'd like to connect to this telephone, please dial the keypad in the following sequence:

1 9 2 * 1 6 8 * 0 * 2 * 2 0 3 #

After these numbers, the telephone 203 on VIP-400 will ring, and you may start voice communication with the destination calling party.

System Configurations

System Configuration	
Keypad Type:	<input type="radio"/> In-Band <input type="radio"/> H.245(Alphanumeric) <input checked="" type="radio"/> H.245(Signal) <input type="radio"/> Q.931(User Info)
Dialstring Length (1~24):	<input type="text" value="0"/>
Interval between Dialstring Digits:	<input type="text" value="5"/> second
Terminal Digit :	<input type="radio"/> No end of dial. <input checked="" type="radio"/> Button [OK] <input type="radio"/> Button [#] <input type="radio"/> Button [*]
H.450 Service Features:	<input type="radio"/> On <input checked="" type="radio"/> Off
<input type="button" value="Done"/>	

System configuration menu can display the system wide information and configuration.

Parameter Description

Keypad Type	<p>Keypad type option is used to setup DTMF transmission method. You may select DTMF type in VIP-101T for DTMF receiving and transmitting activities.</p> <p>Default: H.245 (Signal)</p>
Dialstring Length	<p>You may specify total dialing digit length in this option. Maximum allowed dialing length is 24 digits, if this parameter is set to zero, this indicates (not limited, Max. allowed dialed digits count is 24.</p> <p>Default: 0</p>
Interval between Dialstring Digits	<p>You may specify the interval (in second) of two pressed digits, if there is no action in this duration, VIP-101T will dial out the pressed numbers.</p> <p>Default: 5 seconds</p>
Terminal Digit	<p>Terminal digit selection, once this specified digit is pressed on the keypad, VIP-101T will send out the dialed digits.</p> <p>Default: symbol “#”</p>
H.450 Service Features	<p>This option can be used to enable or disable the H.450 features supported in VIP-101T. H.450 service supported: call transfer, call on hold and call forward.</p> <p>Default: on</p>

Tone Configuration

Tone Configuration								
Busy Tone:	Low Freq. 400	High Freq. 0	Low Freq. Level 8	High Freq. Level 8	TOn 1 50	TOff 1 50	TOn 2 0	TOff 2 0
Reorder Tone:	Low Freq. 480	High Freq. 620	Low Freq. Level 8	High Freq. Level 8	TOn 1 25	TOff 1 25	TOn 2 0	TOff 2 0
Ring Tone 1:	Low Freq. 440	High Freq. 480	Low Freq. Level 13	High Freq. Level 13	TOn 1 200	TOff 1 400	TOn 2 0	TOff 2 0
Ring Tone 2:	Low Freq. 500	High Freq. 700	Low Freq. Level 10	High Freq. Level 10	TOn 1 10	TOff 1 100	TOn 2 10	TOff 2 100
Dial Tone:	Low Freq. 440	High Freq. 350	Low Freq. Level 8	High Freq. Level 8	TOn 1 50	TOff 1 0	TOn 2 50	TOff 2 0
Done								

In this tone configuration page, you may adjust Busy tone, reorder tone, ring tone and dial tone in VIP-101T to have different kinds of voice play-out. Currently, only ring tone and dial tone is functional in VIP-101T, busy tone and reorder tone are reserved for future use.

Note

In most circumstances, it is not necessary to adjust parameters in this page. Before applying any changes in this page, please make sure the data are properly inserted.

Parameter Description

Tone Type and parameter	Before adjusting these parameters, please consult your ITSP service staff or related personnel to obtain proper information to input.			
Default:	Busytone1: LowFreq	400	Dialtone: LowFreq	440
	HighFreq	0	HighFreq	
	LowFreqLevel	8	350	
	HighFreqLevel	8	LowFreqLevel	8
	TOn1	50	HighFreqLevel	8
	TOff1	50	TOn1	50
	TOn2	0	TOff1	0
	TOff2	0	TOn2	50
			TOff2	0

Password, Commit Data, Reboot, Version Information, and Firmware upgrade Configurations

Password Configuration

Admin Password	
root ▼	Current Password: <input type="text"/>
	New Password: <input type="text"/>
	Confirm New Password: <input type="text"/>
<input type="button" value="Done"/> <input type="button" value="Cancel"/>	

You may specify the logon password of VIP-101T here. It is suggested to write down the password and store in a safe place. If the password is forgotten, please contact ITSP related personnel, or local distributor for support service.

There are two kinds of user privilege in VIP-101T administration mode: **root**, and **administrator**, difference between root and administrator is root has the right to change configuration required more privileges, such as restore system default, clean password.

Parameter Description

Current Password	Insert the current active password in this field. Default: null <without password>
New Password	Preferred password for you to logon VIP-101T. Default: This command has no default value.
Confirm Password	Insert new password again for confirmation.. Default: This command has no default value.

Commit Data

Commit Configurations
Please press "COMMIT" button to complete changes
<input type="button" value="COMMIT"/>

Commit data page is used to apply the modifications you've done in VIP-101T.

Please be sure to double confirm if the data are correctly input before commit your settings. After committing your settings, please go to “**Reboot**” page to restart machine and make all the modifications effective.

Parameter Description

Commit	Press COMMIT button to apply the changes in machine
--------	--

Reboot

Reboot	
Please make sure modifications are committed before rebooting machine.	
<input type="button" value="REBOOT"/>	

Reboot page is used to reboot machine and activate the settings you’ve done. If remote reboot is executed, please make sure you’re able to re-connect to machine before rebooting.

Parameter Description

Reboot	Press REBOOT button to restart VIP-101T, and the changes in machine
--------	--

Version Information

Version and Information	
Hardware:	<input type="text"/>
Boot:	<input type="text" value="bt1_sd.105"/>
Application:	<input type="text" value="vip-101t_031017b.sd"/>
DSP Version:	<input type="text" value="48302ck.140"/>

You may check VIP-101T machine version information in this page, these information are important and necessary while inquiring technical support. Meantime, detail description, and LCD display on VIP-101T can clarify the status on your machine, and speed up support service.

Parameter Description

Hardware	VIP-101T Hardware version information Default: null < This field has no default value.>
Boot	Boot loader version VIP-101T. Default: This field has no default value.
Application	Application image version information of VIP-101T. Default: This field has no default value.
DSP version	DSP Image version information Default: This field has no default value.

Firmware Upgrade

Firmware Upgrade	
Download Method:	TFTP ▾
Server IP Address:	192 . 168 . 0 . 2
FTP Login:	name <input type="text"/> passwd <input type="text"/>
Target File name:	<input type="text"/>
Target File Type:	Application Image ▾
Done	

While you receive or download up-to-date firmware file from local distributor, you may open Firmware upgrade page to load new firmware into VIP-101T to obtain latest add-on features or maintenance service.

i Hint

When download or receive firmware upgrade from your service provider, it is required to perform a "**flash -clean**" to activate new configuration in machine. <Machine default IP address: 192.168.0.1, Telnet logon user-name: **root**, password: <null>, press <Enter> to log in machine.

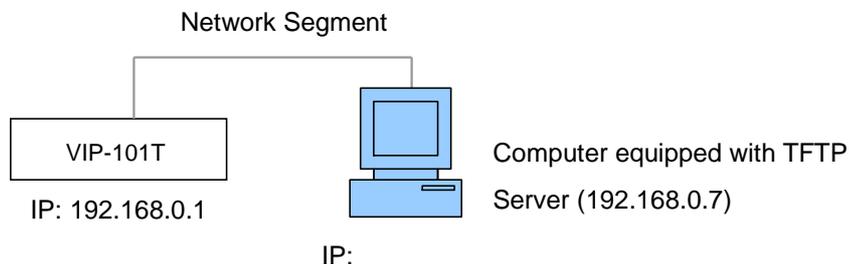
Parameter Description

TFTP	Firmware upgrade via TFTP server mode Default: TFTP upgrade mode
FTP	Firmware upgrade via FTP server mode Default: disabled.
Server IP Address	Specify the IP address of TFTP/FTP server, which contains the firmware file. Default: 192.168.0.2
FTP Login	If FTP upgrade mode is used, please specify the username/password for FTP server logon Default: This field has no default value.
Target File Name	Specify the firmware file name in TFTP/FTP server. Default: This field has no default value.
Target File Type	Select the firmware type you'd like to load into VIP-101T while performing firmware upgrade. Default: Application image.

Firmware upgrade in TFTP mode via web interface

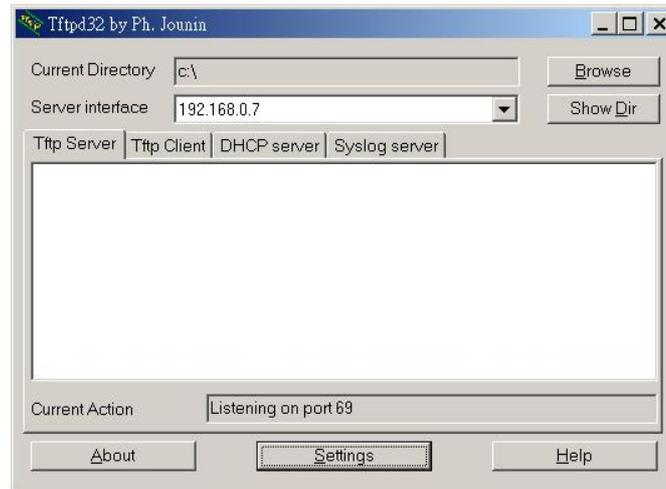
Here we'll introduce you how to load the new firmware file into VIP-101T via **Firmware upgrade** configuration page.

Please prepare the TFTP server ready on the network, and the sample topology can be shown below:



Preparation on TFTP server side

1. Executing TFTP server program, assign firmware file location, and save the path if necessary. (This part might vary depends on different kind of TFTP server used.) (In this sample, the file is assigned in c:\)



2. Allocate VIP-101T firmware file in the directory.

Note: If a firmware upgrade is carried out in a NAT environment, it is required to reserve TCP port 69 for TFTP access.

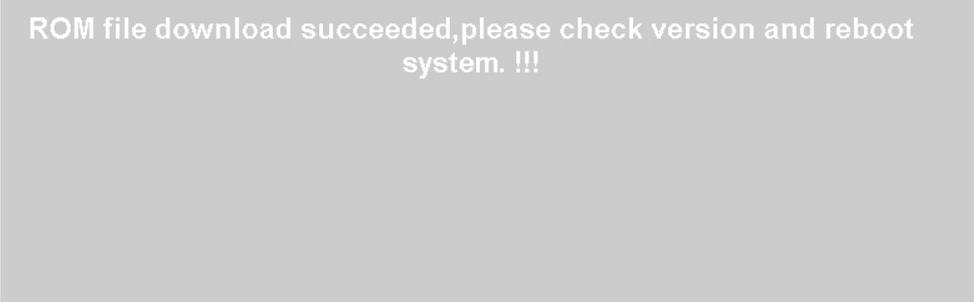
Firmware upgrade steps on VIP-101T

Log on VIP-101T via web browser by user name: **root**; password: null <without password> (password may vary because of your machine configuration), and browse to the Firmware upgrade page, then insert related parameters (Server IP, file name, firmware type selection ...).

Firmware Upgrade	
Download Method:	TFTP ▾
Server IP Address:	192 . 168 . 0 . 7
FTP Login:	name <input type="text"/> passwd <input type="text"/>
Target File name:	vip-101t_031017b.sd
Target File Type:	Application Image ▾
<input type="button" value="Done"/>	

After inserting these parameters, please click “Done” button to start file transmission.

Please wait a moment till firmware file loaded into machine. When the process is done, VIP-101T popup a message to remind you:



ROM file download succeeded, please check version and reboot system. !!!

Please go to **Reboot** page to restart VIP-101T. Till now your machine firmware upgrade is completed.