Category	S/W Release Version	Date
General	v6.069	8. Apr. 2003

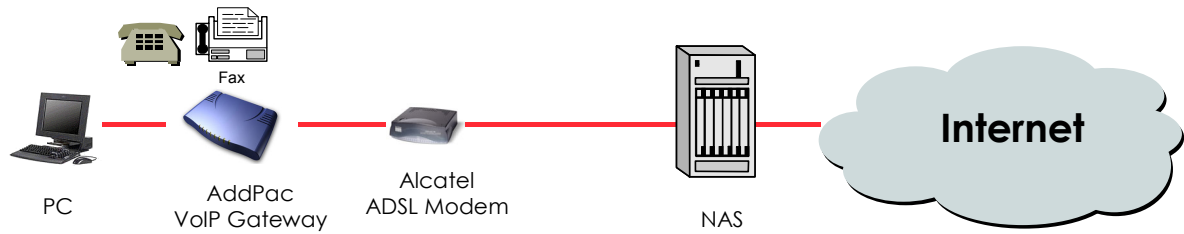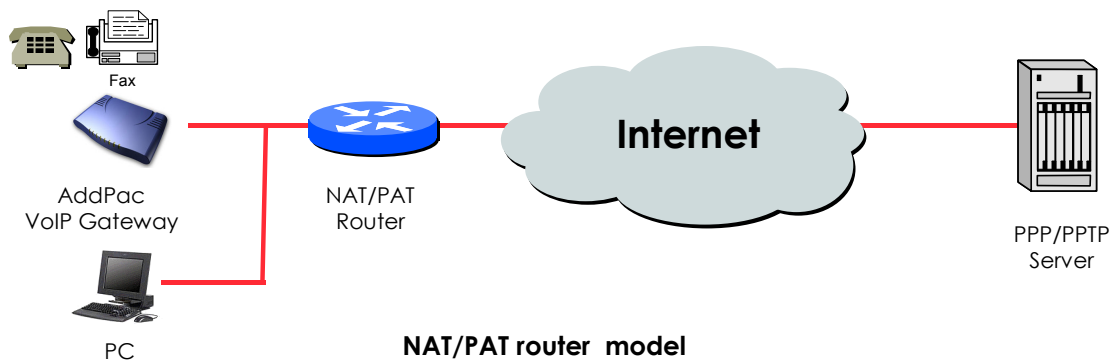# PPTP (Point-to-Point-Tunneling Protocol)

Function Description

Point to Point Tunneling Protocol (PPTP) is a network protocol that enables the secure transfer of data from a remote client to a private enterprise server by creating a PPP tunnel across TCP/IP-based data networks.

The PPTP is used at NAT/PAT environment as shown following figure. At this model, the NAT/PAT router has public IP address at WAN side and private IP address at local side. The VoIP gateway has not a public IP address but a private IP address. The VoIP gateway communicates with PPP/PPTP server via NAT/PAT router and can get a public IP address using PPP over PPTP tunnel. At this time, the public IP address of gateway is not same address as NAT/PAT router. The PPTP connection is terminated at remote PPTP server, across public networks.

The PPTP is also used at ADSL modem. For example, Alcatel ADSL modem support PPTP model at network configuration. The ADSL modem has an only private IP address. The VoIP gateway has a private IP address and gets public IP address across the tunnel. The PPTP connection is terminated at ADSL modem.

The fixed or dynamic private address of VoIP gateway is assigned when DHCP protocol is used.

Basic Model Configuration

PC AddPac VoIP Gateway Alcatel ADSL Modem NAS **Internet**

Alcatel ADSL Modem model

AddPac VoIP Gateway NAT/PAT Router **Internet** PPP/PPTP Server

PC

NAT/PAT router model

Basic Configuration

EndUserIpManagement   Configuration

AddPac Technology

Setup type 3 (PPP/PPTP)

Please enter the following values:

Hostname	ap200
Remote IP address	212.1.3.4

Local IP address   ⦿ Automatic using DHCP

◯ Fixed

IP address [   ]

Subnet mask [   ]

Gateway [   ]

Username	addpac
Password	**********

Confirmation   Please enter username and password again.

Username	addpac
Password	**********

Authentication

⦿ PAP

◯ CHAP

PPP Compression   ☐ Protocol field

☐ Address and Control fields

Command Line configuration

```
!
interface ether0.0
  no ip address
  encapsulation ppp-pptp
  mtu 1400
  pptp mode dhcp
  pptp ip remote 212.1.3.4
  ppp authentication pap callin
  ppp pap sent-username addpac password **********
  ppp echo interval 20
  ppp ipcp ms-dns
  ppp ipcp default-route
!
```