

## Added Features

### **1. PPTP (Point-to-Point Tunneling Protocol)**

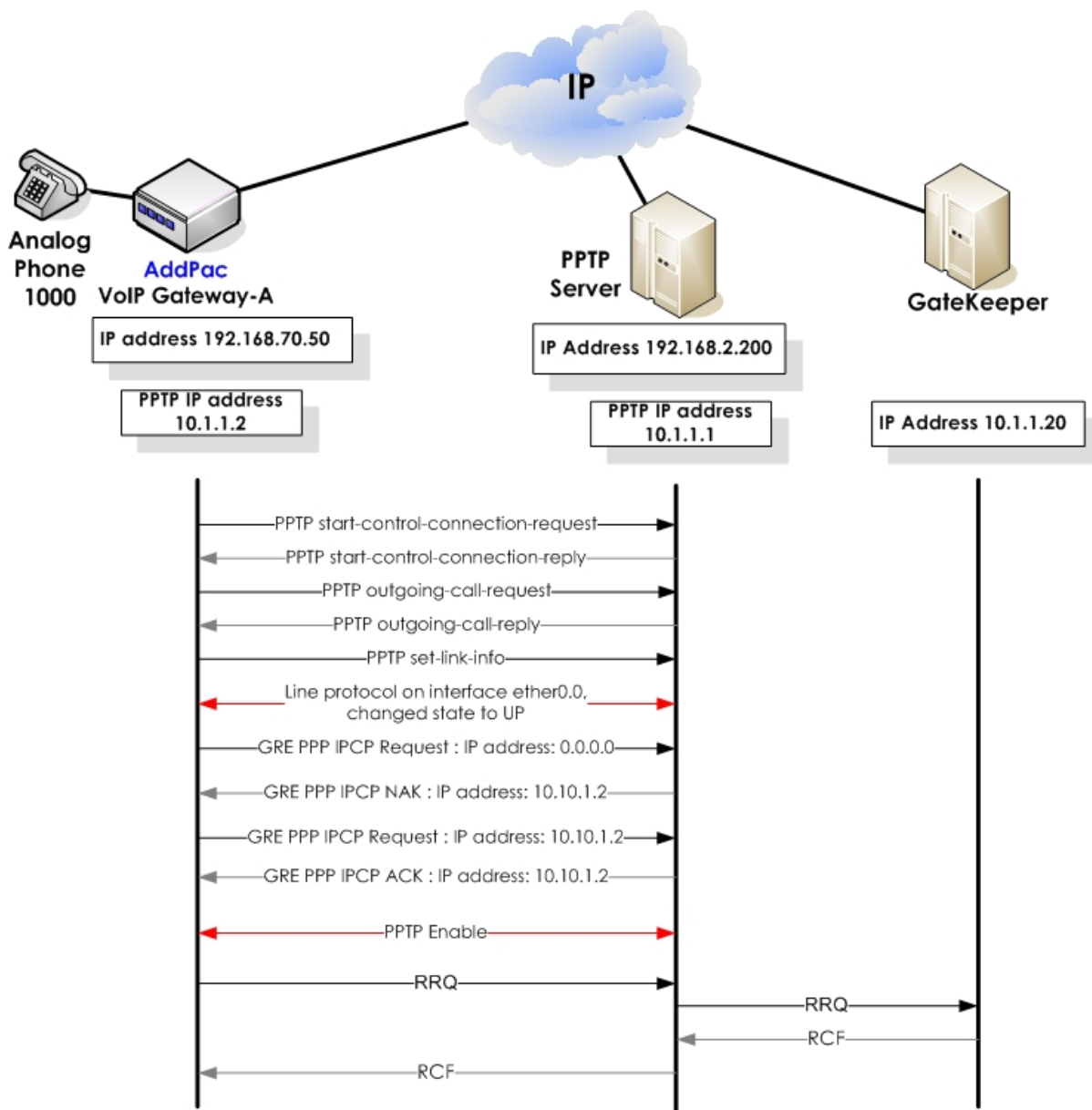
APOS™ PPTP (Point-to-Point Tunneling Protocol) conforms to the RFC2637 standard.

If you can access the PPTP server through the LAN interface, you could use the PPTP feature to configure Virtual Private Network (VPN).

PPTP supported by AddPac Gateway is a client feature that allows you to access the PPTP server; thus, a PPTP server must exist on the Internet.

Any and all VoIP products of AddPac Technology support this feature.

Network Configuration



**Default: Disable** (Commands that enable or disable the feature exist.)

## Related Commands

- Connection ID: “**Addpac**”
- Connection Password: “**1234**”

If you set the parameters to the above values, you could perform settings as follows:

### PPTP

Step	Command	Description
1	<b># config</b>	Switches to APOS command input mode.
2	<b>(config)# interface eth 0.0</b>	Switches to interface Ethernet 0.0 config mode.
3	<b>(config-ether0.0)# no ip address</b>	An IP address is not set.
4	<b>(config-ether0.0)# encapsulation ppp-pptp</b>	Sets the network protocol to PPTP. (Note: Only if the encapsulation ppp-pptp is enabled, interface pptp 0 will be created.)
5	<b>(config-ether0.0)# pptp ip remote 192.168.2.200</b>	Sets the IP address of the PPTP server.
6	<b>(config-ether0.0)# pptp route data</b>	Sets this feature if you want to transfer data to the interface PPTP (Optional).
7	<b>(config-ether0.0)# ppp authentication chap callin</b>	Sets the PPP authentication method to Chap. (If you want to set the method to PAP, please refer to the Quick Operation Guide.)
8	<b>(config-ether0.0)# ppp chap hostname addpac</b>	Sets the user ID of Chap to “addpac”.
9	<b>(config-ether0.0)# ppp chap password 1234</b>	Sets the password of Chap to “1234”.
10	<b>(config-ether0.0)# no ppp ipcp ms-dns</b>	Disables the IP address of DNS to be received from PPP Server.
11	<b>(config-ether0.0)# no ppp ipcp default-route</b>	<b>Disables the setting that allows you to receive the IP address of the default router from the PPP server (Important).</b>
12	<b>(config-ether0.0)#exit</b>	Disables the Ethernet interface 0.0 config mode.
13	<b>(config)# interface pptp0</b>	Switches to interface pptp 0 config mode. (This interface is created automatically if you set encapsulation ppp-pptp to ether0.0)
14	<b>(config-pptp0)# ip address 192.168.70.50 255.255.255.0</b>	Sets the public IP address. (real WAN, not VPN private IP) (If you want to use DHCP , PPPOE(ADSL) for WAN connections, refer

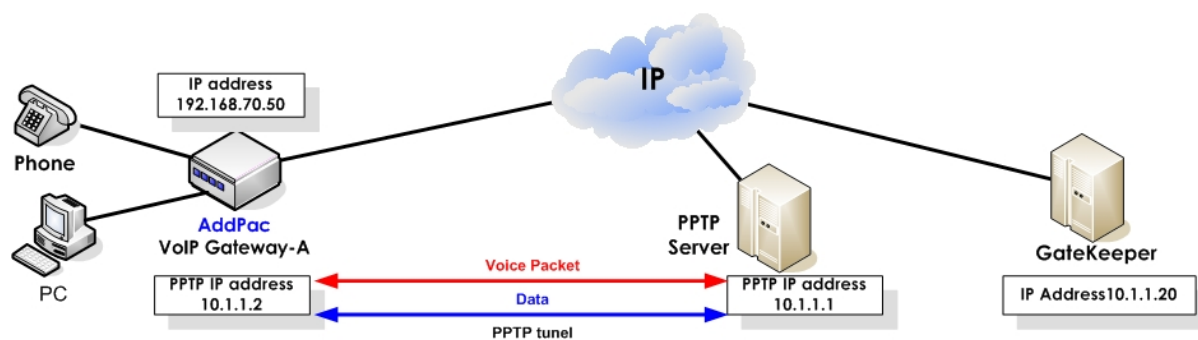
		to the Quick Operation Guide.)
15	(config-pptp0)#exit	Disables interface pptp 0 config mode.
16	(config)#route 0.0.0.0 0.0.0.0 192.168.70.1	<b>Sets the IP address of the default router for WAN connections.</b>
17	(config)#route 20.1.1.0 255.255.255.0 10.1.1.1	Sets up static routing if you want to go to 20.1.1.0 network via 10.1.1.1, which is a next hop router (Optional).
18	(config)# ip-policy ip host voip-interface any route-if ether0.0	Allows you to transfer data to a public network (WAN) and to send VoIP traffic to VPN (Optional).
19	(config)#end	Disables config mode.
19	#write	Saves configuration.

### Disabling PPTP

Step	Command	Description
1	(config-ether0.0)#no encapsulation ppp-pptp	Disables PPTP.

**Note: MS-Chap, which is one of the PPP authentication methods, is not supported.**

- Example of Use 1 (Traffic is sent to the PPTP interface)



- Configuration Example

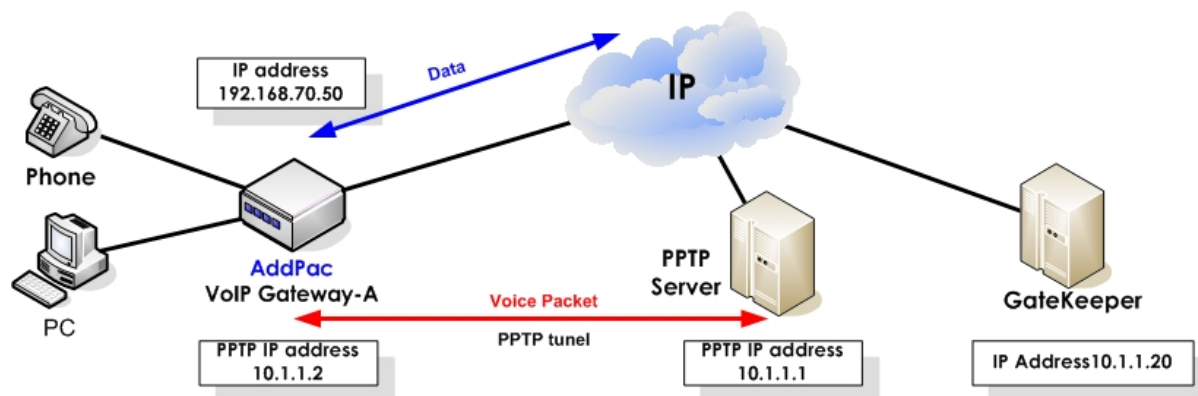
```

version 8.22p1
!
hostname AP200
!
dhcp-list 0 type server
dhcp-list 0 address server interface ether0.0
dhcp-list 0 option dhcp-lease-time 600
dhcp-list 0 option dns 168.126.63.1
dhcp-list 0 option router-option 216.55.248.129
!
dhcp-list 1 type server
dhcp-list 1 address server 10.1.1.2 10.1.1.126 255.255.255.128
!
ip-share enable
ip-share interface net-side ether0.0
ip-share interface local-side ether1.0
!
interface ether0.0
no ip address
encapsulation ppp-pptp
pptp ip remote 192.168.2.200
ppp authentication chap callin
ppp chap hostname Addpac
ppp chap password 1234
no ppp ipcp ms-dns
no ppp ipcp default-route
!
interface ether1.0

```

```
no ip address
ip dhcp-group 0
!
interface pptp0
ip address 192.168.70.50 255.255.255.0
```

- Example of Use 2 (Only VoIP traffic is sent to the PPTP interface – IP Share)



- Configuration Example

```

version 8.22p1
!
hostname AP200
!
dhcp-list 0 type server
dhcp-list 0 address server interface ptp0
dhcp-list 0 option dhcp-lease-time 600
dhcp-list 0 option dns 168.126.63.1
dhcp-list 0 option router-option 216.55.248.129
!
dhcp-list 1 type server
dhcp-list 1 address server 10.1.1.2 10.1.1.126 255.255.255.128
!
ip-share enable
ip-share interface net-side ptp0
ip-share interface local-side ether1.0
!
interface ether0.0
no ip address
encapsulation ppp-pttp
pttp ip remote 192.168.2.200
pttp route data
ppp authentication chap callin
ppp chap hostname Addpac
ppp chap password 1234
no ppp ipcp ms-dns

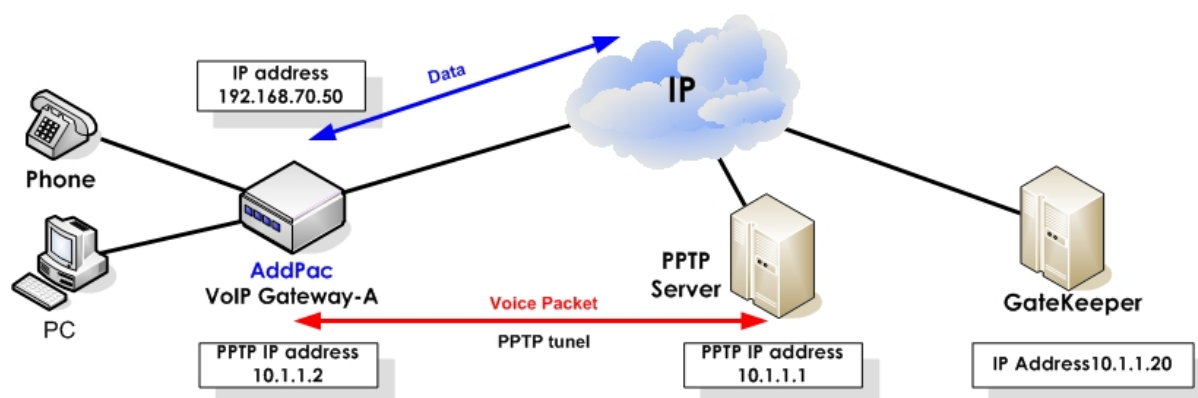
```

```

no ppp ipcp default-route
!
interface ether1.0
no ip address
ip dhcp-group 0
!
interface ptp0
ip address 192.168.70.50 255.255.255.0
!
ip-policy ip host voip-interface any route-if ether0.0

```

### Example of Use 3 (Only VoIP traffic is sent to the PPTP interface – for PAT Use)



#### • Configuration Example

```

version 8.234
!
hostname AP200
!
dhcp-list 0 type server
dhcp-list 0 address server 10.1.1.2 10.1.1.254 255.255.255.0
dhcp-list 0 option dns 168.126.63.1
dhcp-list 0 option router-option 10.1.1.1
!
nat-list 1 pat static-entry tcp 1720 local
nat-list 1 pat static-entry udp 5060 local
nat-list 1 pat static-entry tcp 1723 local
nat-list 1 pat group-static-entry udp 22000 22001 local
nat-list 1 pat group-static-entry udp 23000 24999 local
nat-list 1 pat group-static-entry tcp 10000 10999 local

```



```
nat-list 1 pat group-static-entry tcp 14000 14999 local
nat-list 1 pat group-static-entry tcp 18000 18999 local
nat-list 1 pat static-entry tcp 23 local
nat-list 1 pat group-static-entry tcp 20 21 local
nat-list 1 pat group-static-entry udp 67 68 local
nat-list 1 pat static-entry icmp ping local
!
no ip-share enable
ip-share interface net-side ether0.0
ip-share interface local-side ether1.0
!
interface ether0.0 ← Receives a flexible IP as a private IP from the PPTP server.
no ip address
encapsulation ppp-pptp
pptp ip remote 192.168.2.200
pptp route data
ppp authentication chap callin
ppp chap hostname addpac
ppp chap password addpac
no ppp ipcp ms-dns
no ppp ipcp default-route ← Does not receive information on default routing from PPTP Server.
!
interface ether1.0
ip address 10.1.1.1 255.255.255.0
ip nat-group 1 pat ptp0 ← Has been translated into the IP address (public) of the ptp0 interface.
ip dhcp-group 0
!
interface ptp0 ← This PPPoE setting is used to receive a public IP.
no ip address
encapsulation pppoe
ppp authentication pap callin
ppp pap sent-username addpac1 password addpac1
ppp ipcp ms-dns
ppp ipcp default-route ← Receives information on default routing from a public network.
!
ip-policy ip host voip-interface any route-if ether0.0
<- Transmits the IP address of the VoIP interface (VoIP traffic) to ether0.0 (PPTP network).
```