

# BcN Video Phone Series

**BcN : Broadband Convergence Network**

## Public IP + IP Sharing + Cascading




AddPac

**AddPac Technology**

Sales and Marketing

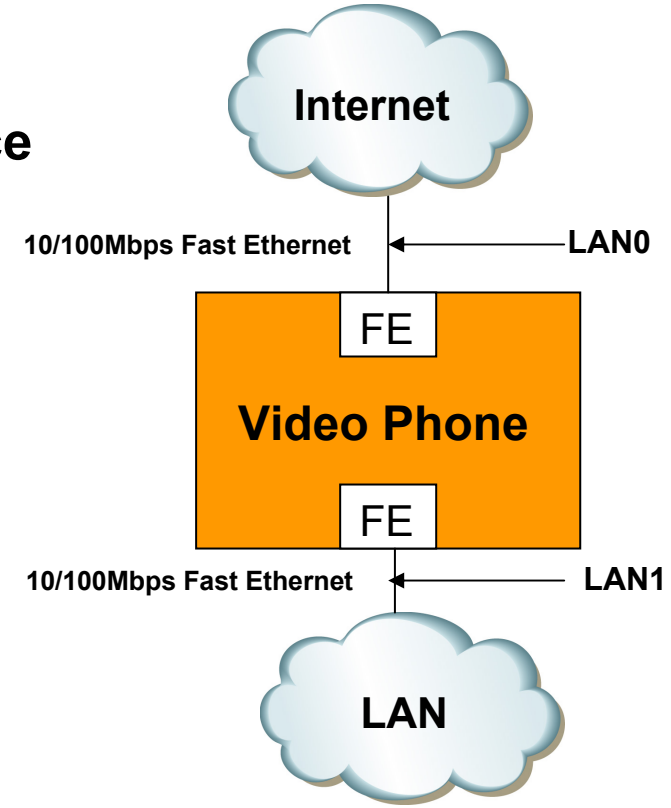
**www.addpac.com**

# Contents

- Video Phone H/W Specification
- Public IP + NAT/PAT
- Public IP + IP Sharing + Cascading
- Private IP

# Video Phone H/W Specification

- **RISC+DSP (Audio Codec) Microprocessor Computing Power**
  **(Dual Processor Architecture)**
- **Powerful DSP for Video Signal Processing**
- **Optional PSTN Interface**
  - FXO Interface
- **High quality Audio and Video Interface**
- **USB Host Mode Interface**
- **Network Interface**
  - Two(2) 10/100Mbps Fast Ethernet
  - One(1) RS-232C Console
- **Power Supply**
  - External Power Adaptor (5V, 2A)



# Public IP + NAT/PAT Network Diagram




ADSL Modem

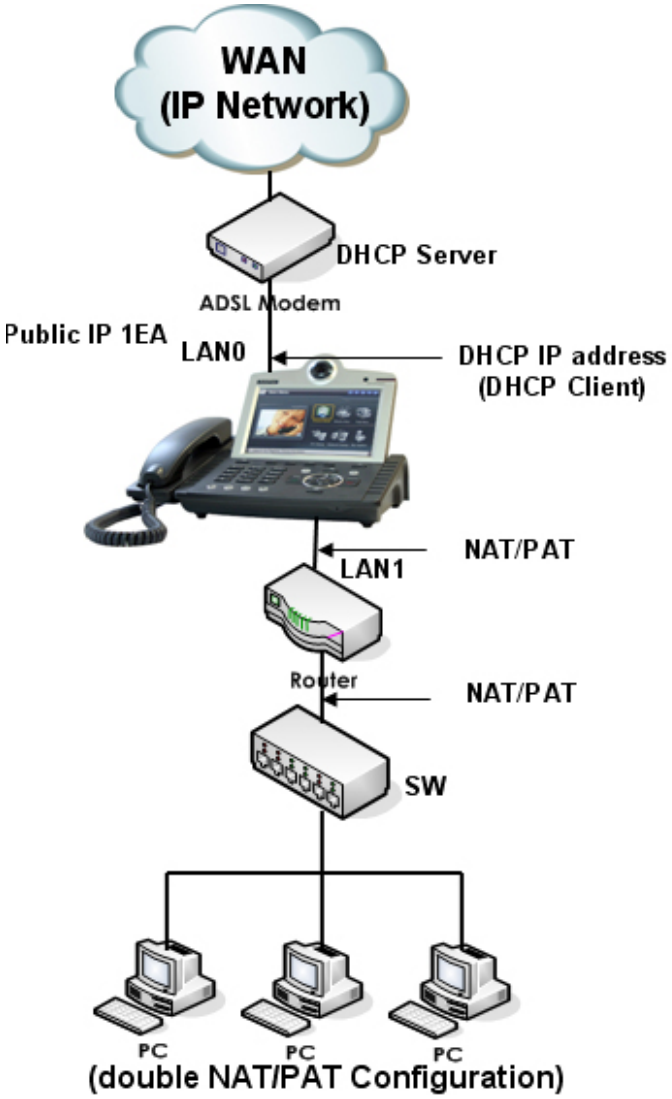
# Public IP (Static IP) + NAT/PAT




**(1) Interface ethernet 0 static ip address**

```
dhcp-list 1 type server
dhcp-list 1 address server  10.1.1.2 10.1.1.254 255.255.255.0
dhcp-list 1 option dns 10.1.1.1
dhcp-list 1 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 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
interface ether0.0
 ip address 200.212.149.130 255.255.255.192
!
interface ether1.0
 ip address 10.1.1.1 255.255.255.0
 ip nat-group 1 pat ether0.0
 ip dhcp-group 1
!
route 0.0.0.0 0.0.0.0 200.212.149.1
```

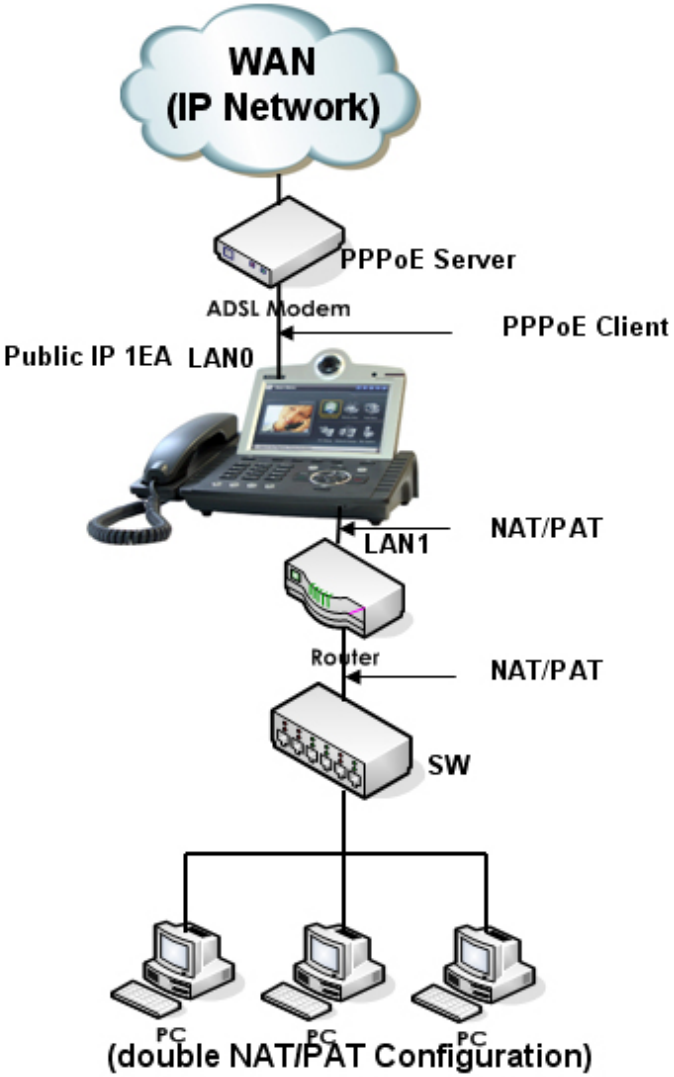
# Public IP (DHCP) + NAT/PAT




**2) Interface ethernet 0 dhcp ip address**

```
dhcp-list 1 type server
dhcp-list 1 address server  10.1.1.2 10.1.1.254 255.255.255.0
dhcp-list 1 option dns 10.1.1.1
dhcp-list 1 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 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
interface ether0.0
 ip address dhcp
!
interface ether1.0
 ip address 10.1.1.1 255.255.255.0
 ip nat-group 1 pat ether0.0
 ip dhcp-group 1
```

# Public IP (PPPoE) + NAT/PAT




**3) Interface ethernet 0 pppoe ip address**

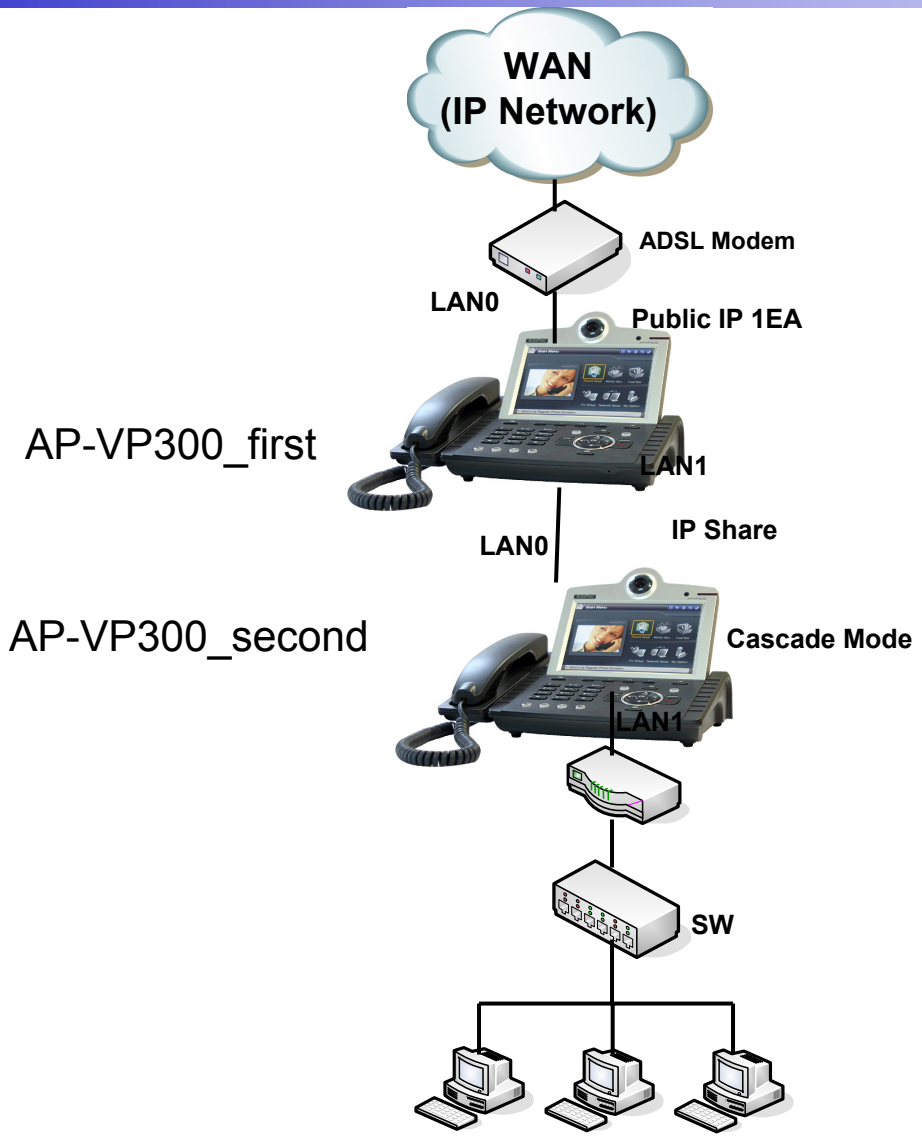
```
dhcp-list 1 type server
dhcp-list 1 address server  10.1.1.2 10.1.1.254 255.255.255.0
dhcp-list 1 option dns 10.1.1.1
dhcp-list 1 option router-option 10.1.1.1
!
nat-list 1 pat static-entry tcp 1720  local
nat-list 1 pat static-entry udp 5060  local
nat-list 1 pat group-static-entry udp 22000 22001 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
!
```

# Public IP (PPPoE) + NAT/PAT Continue.

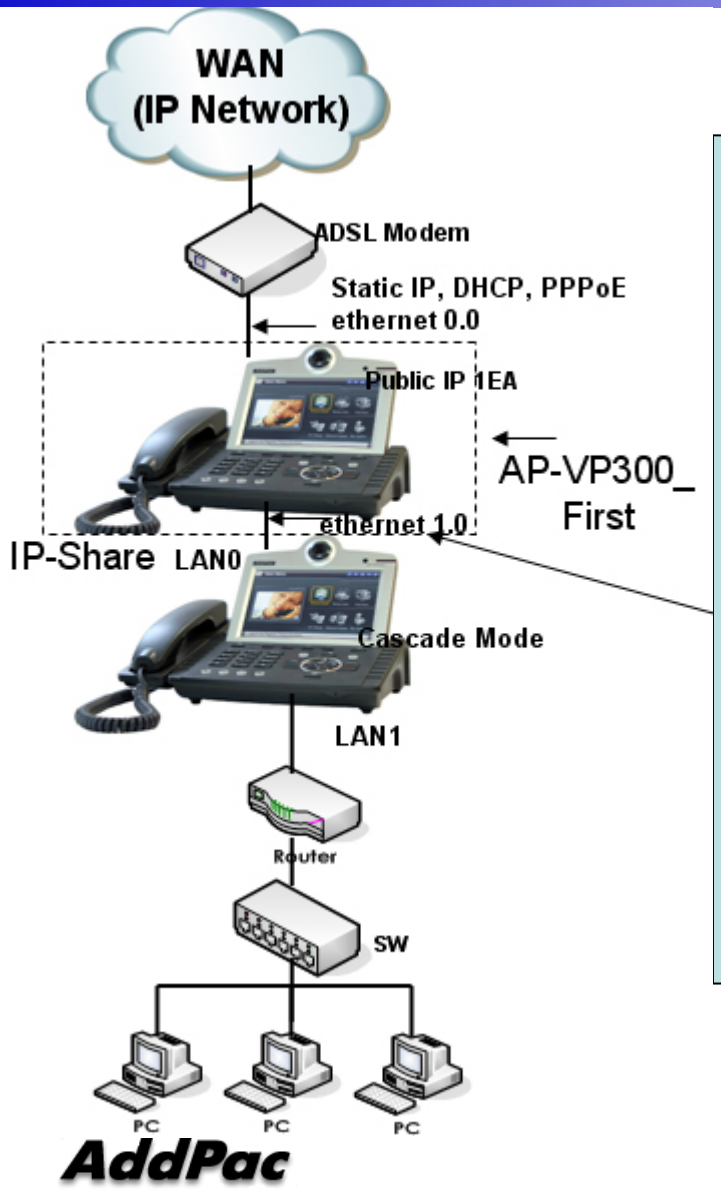



```
interface ether0.0
 no ip address
 encapsulation pppoe
 ppp authentication pap callin
 ppp pap sent-username addpac password 12345
 ppp echo interval 200
 ppp ipcp ms-dns
 ppp ipcp default-route
!
interface ether1.0
 ip address 10.1.1.1 255.255.255.0
 ip nat-group 1 pat ether0.0
 ip dhcp-group 1
```

# Public IP + IP Share + Cascading Network Diagram



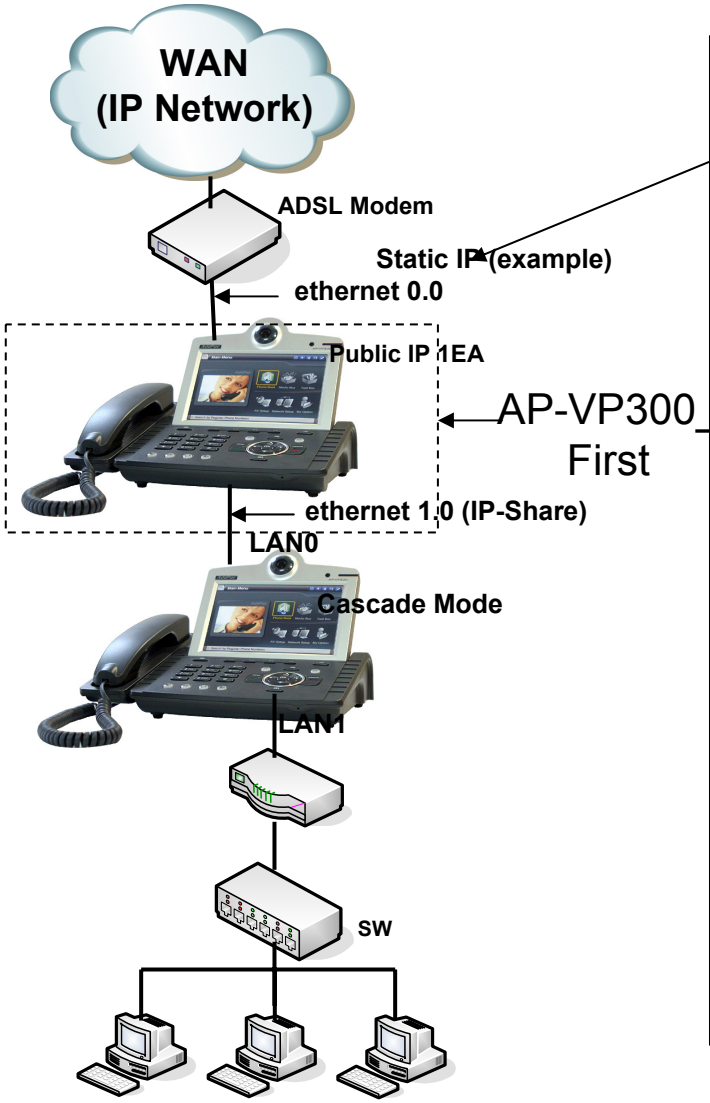
# Public IP (static IP)+ IP Share + Cascading : First Terminal CLI




**(1) AP-VP300-First**

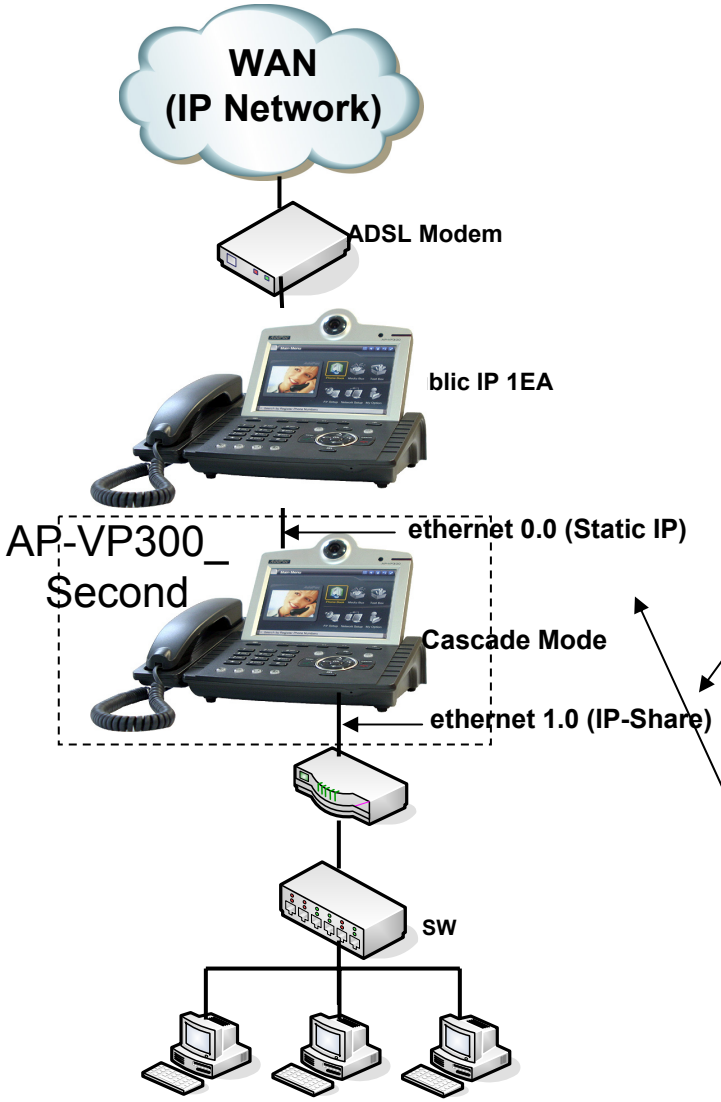
dhcp-list 0 type server
dhcp-list 0 address server interface ether0.0
dhcp-list 0 option dhcp-lease-time 600
dhcp-list 0 option router-option 200.207.75.65
!
dhcp-list 1 type server
dhcp-list 1 address server 10.1.1.2 10.1.1.126 255.255.255.128
!
**ip-share enable**
**ip-share interface net-side ether0.0**
**ip-share interface local-side ether1.0**
**ip-share cascade**
**ip-share sending group-static-entry udp 5061 5062 local-side**
**ip-share sending group-static-entry udp 23100 23299 local-side**
**ip-share sending group-static-entry tcp 2000 2003 local-side**
**ip-share sending group-static-entry tcp 3000 3003 local-side**
**ip-share sending group-static-entry tcp 8080 8090 local-side**
!

# Public IP (static IP)+ IP Share + Cascading : First Terminal CLI (cont…)




```
interface ether0.0
 ip address 200.207.75.91 255.255.255.192
 qos-control 100
!
interface ether1.0
 no ip address
 qos-control 200
 ip dhcp-group 0
!
route 0.0.0.0 0.0.0.0 200.207.75.65
!
service-port ftpd 9021
service-port httpd 9080
!
voice service voip
 minimize-voip-port service rtp-udp-listen 23000 23099
!
 sip-server 216.55.248.39
 timeout treg 180
 timeout tregtry 60
 min-se 60
 srv enable
 set-local-domain addpac.com
 register e164
```

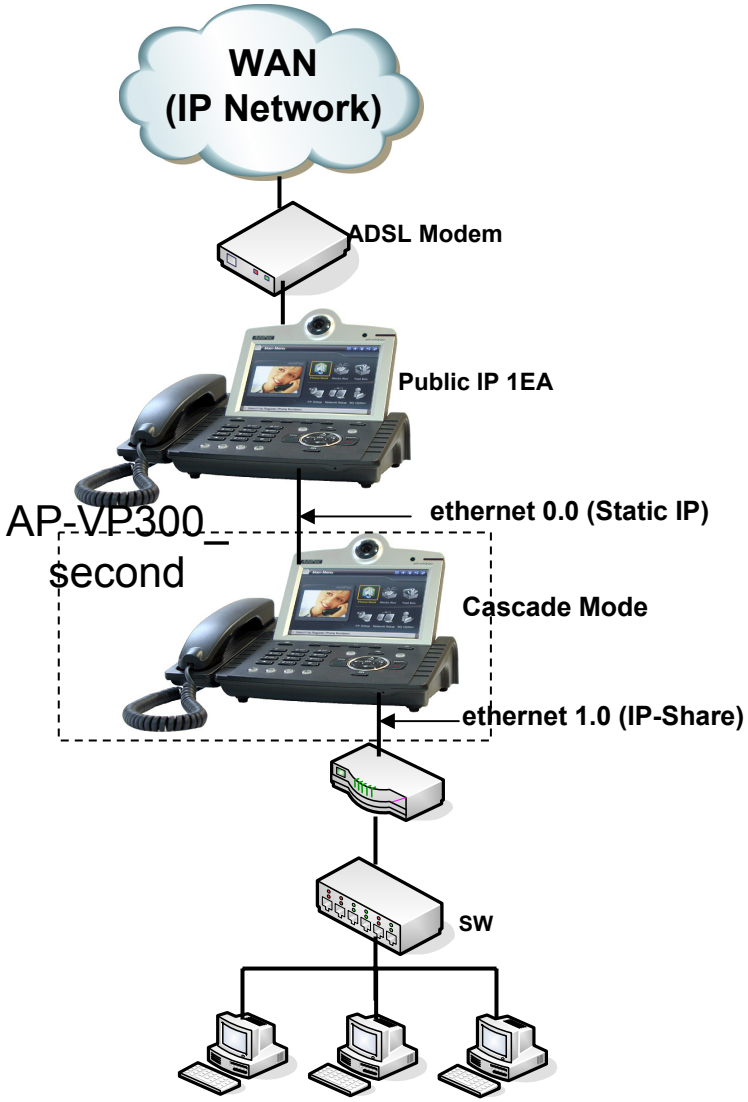
# Public IP (static IP)+ IP Share + Cascading : Second Terminal CLI




**2) AP-VP300-Second**

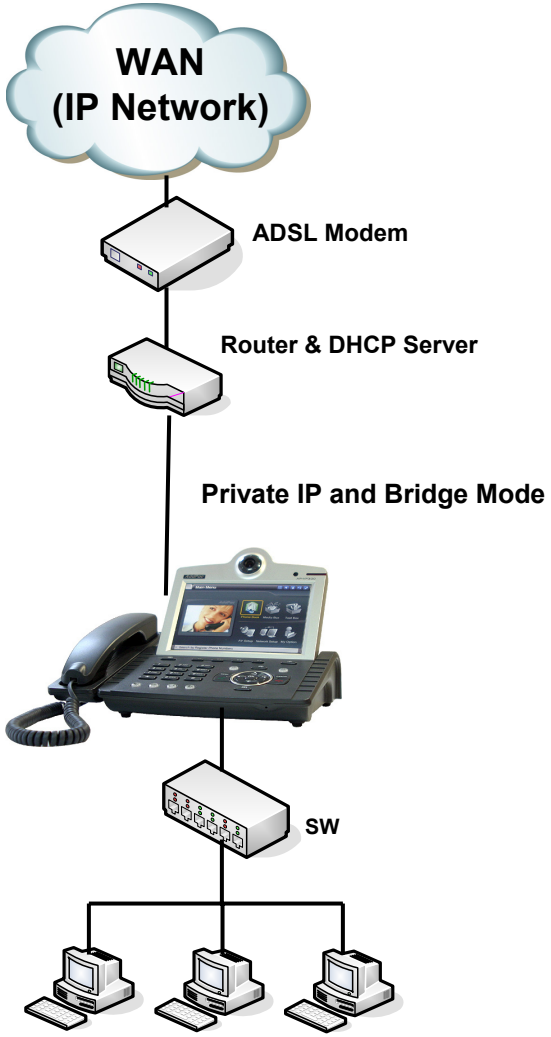
```
dhcp-list 0 type server
dhcp-list 0 address server interface ether0.0
dhcp-list 0 option dhcp-lease-time 7200
!
dhcp-list 1 type server
dhcp-list 1 address server  10.1.1.2 10.1.1.127 255.255.255.128
dhcp-list 1 option dhcp-lease-time 600
!
!
ip-share enable
ip-share interface net-side ether0.0
ip-share interface local-side ether1.0
ip-share cascade
ip-share sending static-entry udp 5062  local-side
ip-share sending group-static-entry udp 23200 23299 local-side
ip-share sending group-static-entry tcp 3000 3003 local-side
ip-share sending static-entry tcp 8090  local-side
ip-share sending static-entry udp 5060  net-side
ip-share sending group-static-entry udp 23000 23099 net-side
ip-share sending group-static-entry tcp 20 23 net-side
ip-share sending static-entry tcp 80  net-side
!
interface ether0.0
 ip address 200.207.75.91 255.255.255.192
 qos-control 100
!
```

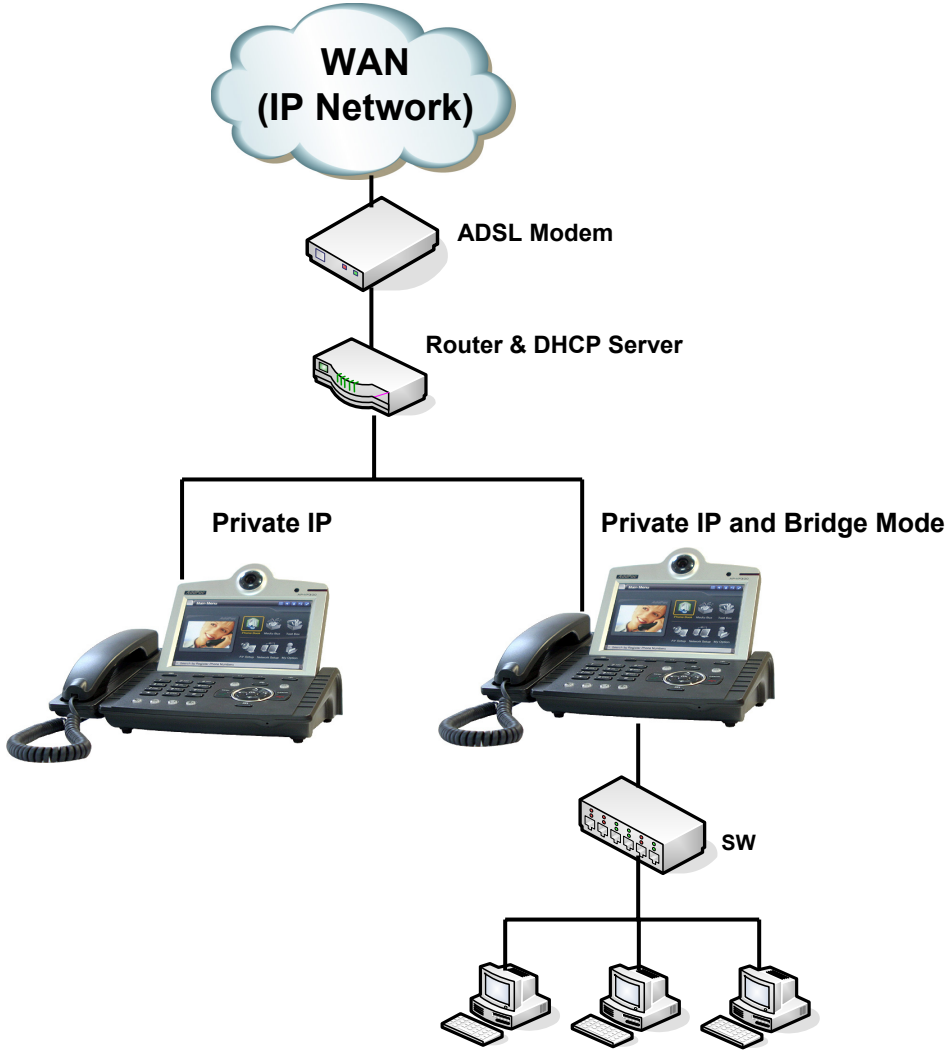
# Public IP (static IP)+ IP Share + Cascading : Second Terminal CLI



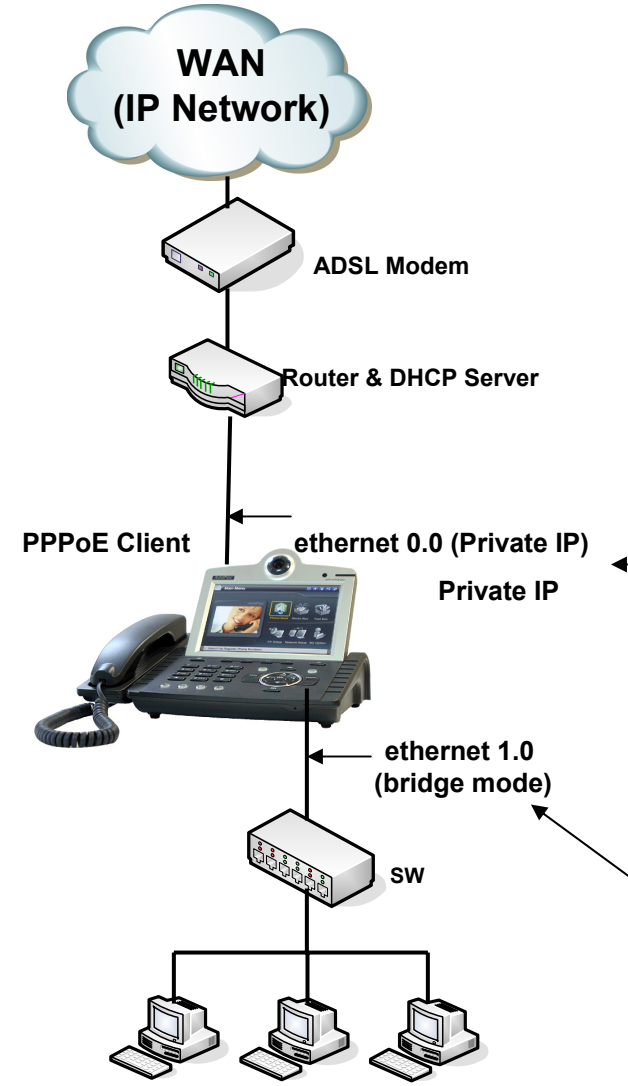

```
interface ether1.0
 no ip address
 qos-control 200
 ip dhcp-group 0
!
snmp name AP200B
no arp reset
!
route 0.0.0.0 0.0.0.0 200.207.75.65
!
service-port ftpd 2001 2000
service-port httpd 8080
service-port telnetd 2003
!
voice service voip
 minimize-voip-port service rtp-udp-listen 23100 23199
!
```

# Private IP + Bridge Mode Network Diagram Example



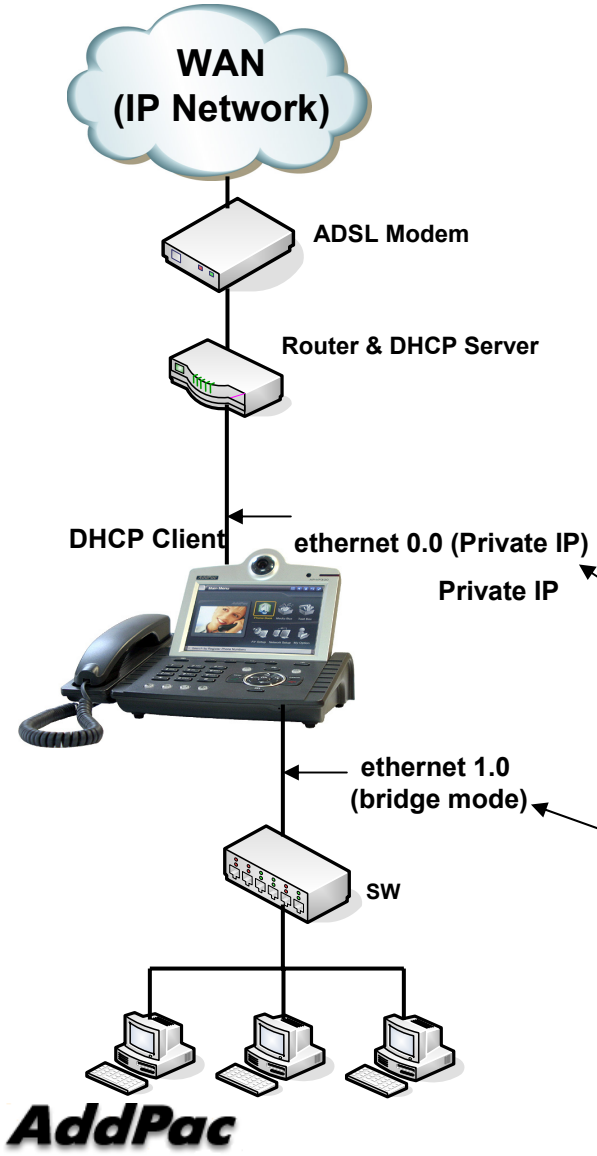



# Private IP (PPPoE) + Bridge




```
1) PPPOE bridge mode
no ip routing
!
no bridge spanning-tree
!
dhcp-list 0 type server
dhcp-list 0 address server interface ether0.0
dhcp-list 0 option dhcp-lease-time 600
!
dhcp-list 1 type server
dhcp-list 1 address server  10.1.1.2 10.1.1.126 255.255.255.128
!
no ip-share enable
!
interface ether0.0
 no ip address
 encapsulation pppoe
 ppp authentication pap callin
 ppp pap sent-username addpac password 12345
 ppp echo interval 60
 ppp ipcp ms-dns
 ppp ipcp default-route
 line-ctrl promiscuous
 bridge
!
interface ether1.0
 no ip address
 line-ctrl promiscuous
 bridge
```

# Private IP (DHCP) + Bridge




```
2) DHCP bridge
no ip routing
!
no bridge spanning-tree
!
dhcp-list 0 type server
dhcp-list 0 address server interface ether0.0
dhcp-list 0 option dhcp-lease-time 600
!
dhcp-list 1 type server
dhcp-list 1 address server  10.1.1.2 10.1.1.126 255.255.255.128
!
!
no ip-share enable
!
interface ether0.0
 ip address dhcp
 line-ctrl promiscouous
 bridge
!
interface ether1.0
 no ip address
 line-ctrl promiscuous
 bridge
```

# Video Phone Series

Thank you!

**AddPac Technology Co., Ltd.**
Sales and Marketing

Phone +82.2.568.3848 (KOREA)
FAX +82.2.568.3847 (KOREA)
E-mail sales@addpac.com