

BcN Video Phone Series

BcN : Broadband Convergence Network

802.1Q + 802.1P + Bridge



AddPac Technology

Sales and Marketing

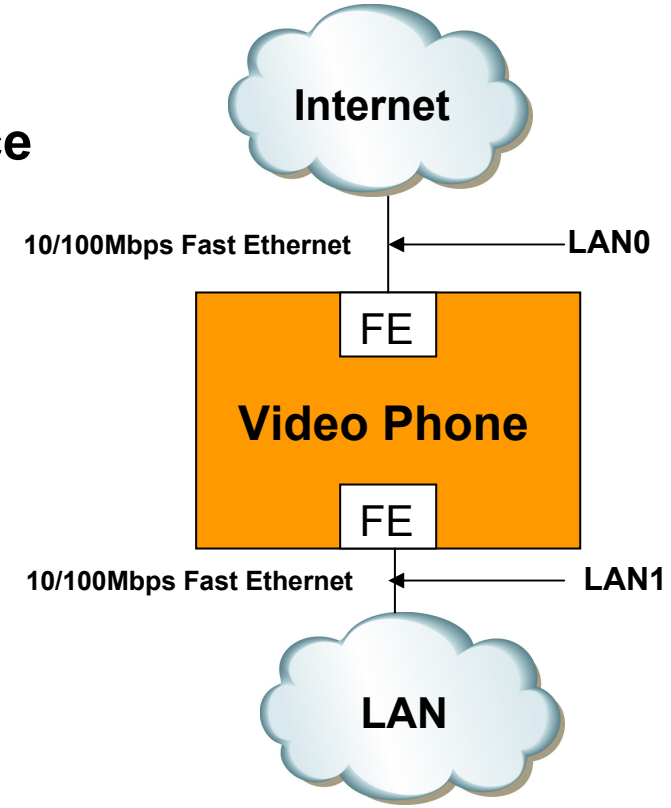
www.addpac.com

Contents

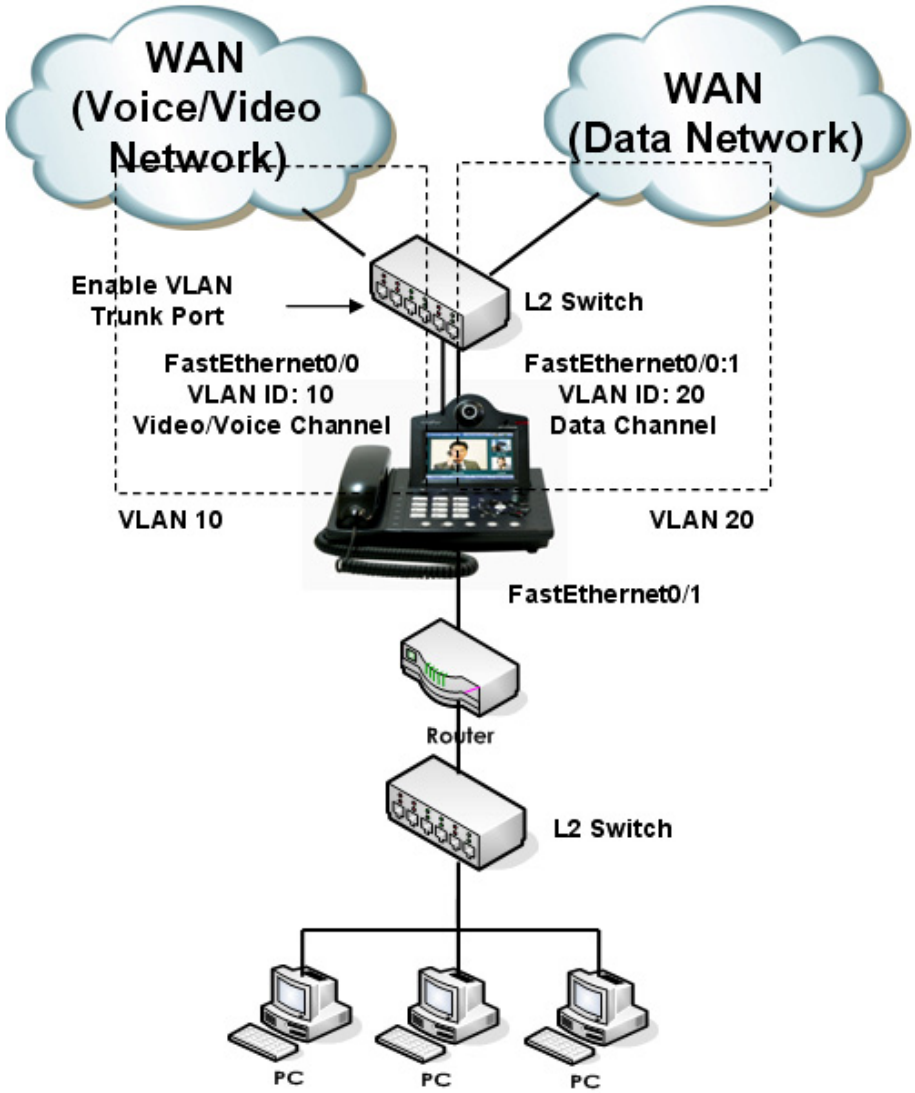
- Video Phone H/W Specification
- 802.1Q VLAN Encapsulation
- 802.1P VLAN Priority
- VLAN Bridge

Video Phone H/W Specification

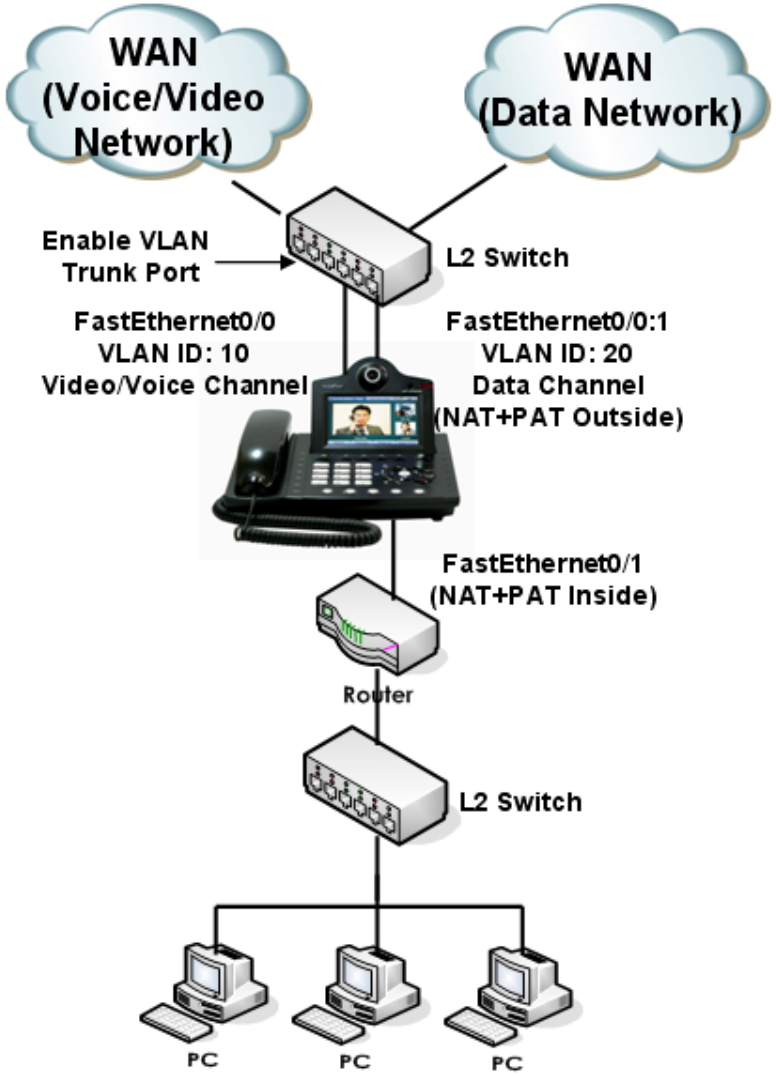
- **RISC+DSP (Audio Codec) Microprocessor Computing Power**
  (Dual Processor Architecture)
- **Powerful DSP for Video Signal Processing**
- **Optional PSTN Interface**
  - FXO Interface
- **High quality Audio and Video Interface**
- **USB Host Mode Interface**
- **Network Interface**
  - Two(2) 10/100Mbps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



802.1Q VLAN +NAT/PAT

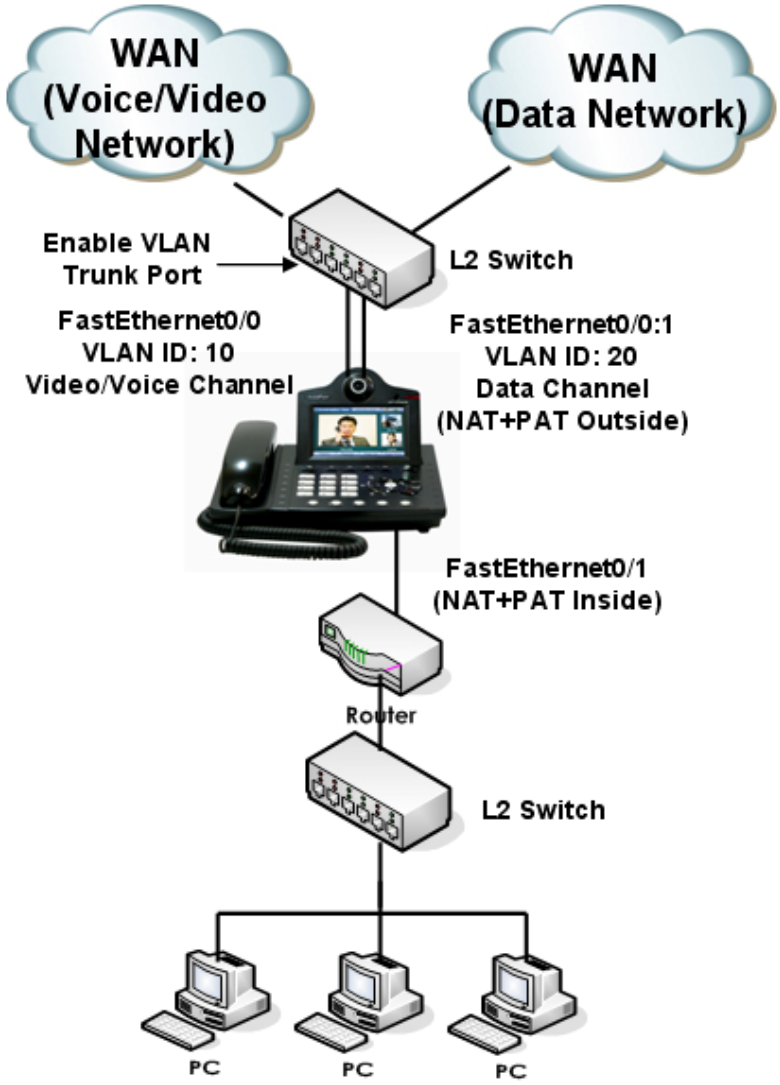


Public IP (Static IP) + NAT/PAT



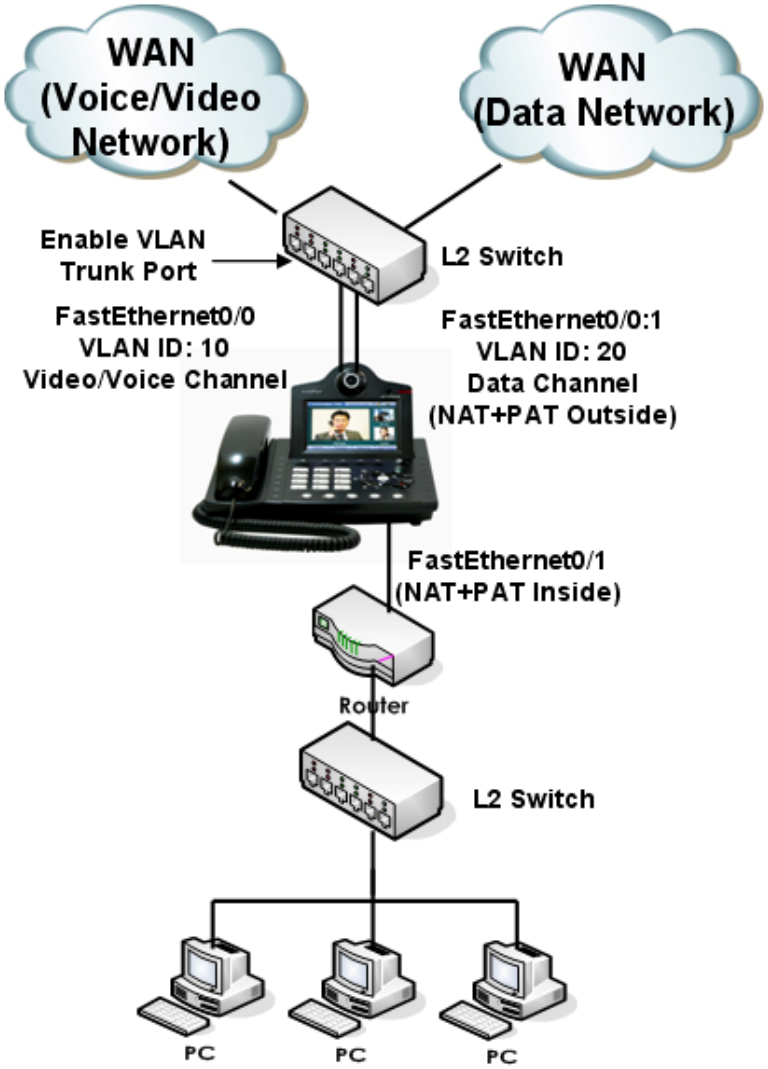

```
!
interface Loopback0
 ip address 127.0.0.1 255.0.0.0
!
interface FastEthernet0/0
 ip address 200.212.149.130 255.255.255.0
 encapsulation dot1Q 10
 speed auto
!
interface FastEthernet0/1
 ip address 10.1.1.1 255.255.255.0
 ip nat inside
 speed auto
!
interface FastEthernet0/0:1
 ip address 61.33.161.130 255.255.255.0
 encapsulation dot1Q 20
 ip nat outside
!
ip route 0.0.0.0 0.0.0.0 61.33.161.1
ip route 0.0.0.0 0.0.0.0 200.212.149.1
!
access-list 1 permit 10.1.1.0 0.0.0.255
!
ip nat inside source list 1 interface FastEthernet0/0:1 overload
!
```

Public IP (DHCP) + NAT/PAT



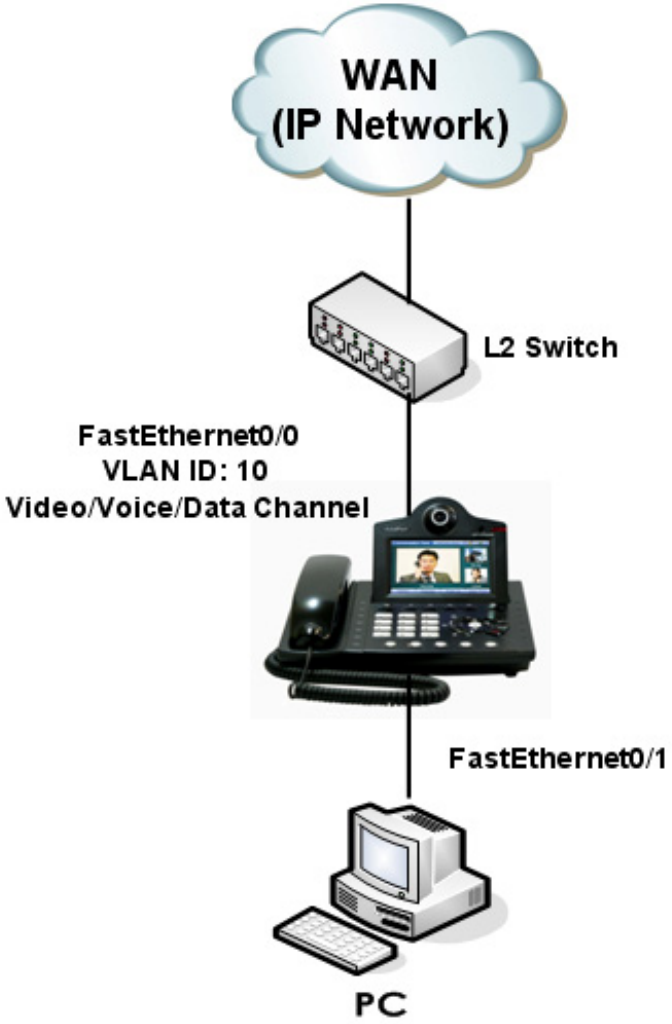

```
interface Loopback0
 ip address 127.0.0.1 255.0.0.0
!
interface FastEthernet0/0
 ip address dhcp
 encapsulation dot1Q 10
 speed auto
!
interface FastEthernet0/1
 ip address 10.1.1.1 255.255.255.0
 ip nat inside
 speed auto
!
interface FastEthernet0/0:1
 ip address dhcp
 encapsulation dot1Q 20
 ip nat outside
!
access-list 1 permit 10.1.1.0 0.0.0.255
!
ip nat inside source list 1 interface FastEthernet0/0:1 overload
```

Public IP (PPPoE) + NAT/PAT

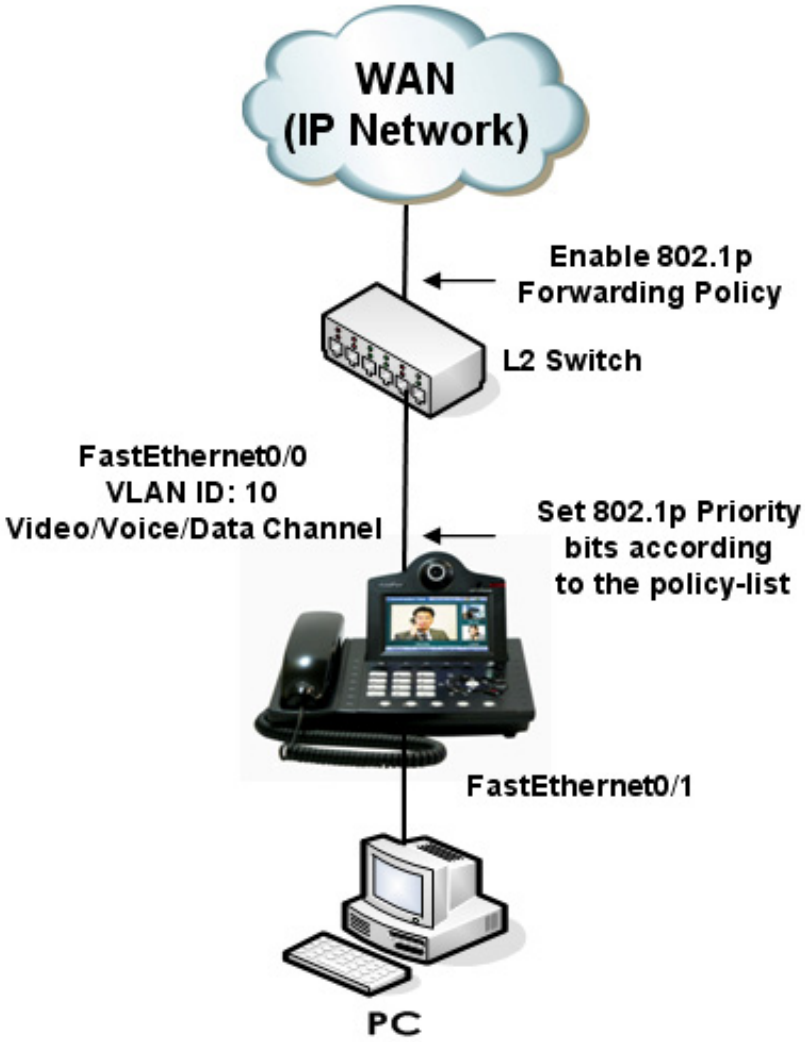



```
interface FastEthernet0/0
 no ip address
 encapsulation dot1Q 10
 pppoe enable
 encapsulation ppp
 pppoe-client local-interface
 ppp authentication pap callin
 ppp pap sent-username test password test
 speed auto
!
interface FastEthernet0/1
 ip address 10.1.1.1 255.255.255.0
 ip nat inside
 speed auto
!
interface FastEthernet0/0:1
 no ip address
 encapsulation dot1Q 20
 pppoe enable
 encapsulation ppp
 pppoe-client local-interface
 ppp authentication pap callin
 ppp pap sent-username test password test
 ip nat outside
!
access-list 1 permit 10.1.1.0 0.0.0.255
!
ip nat inside source list 1 interface FastEthernet0/0:1 overload
```

802.1Q VLAN +802.1P CoS

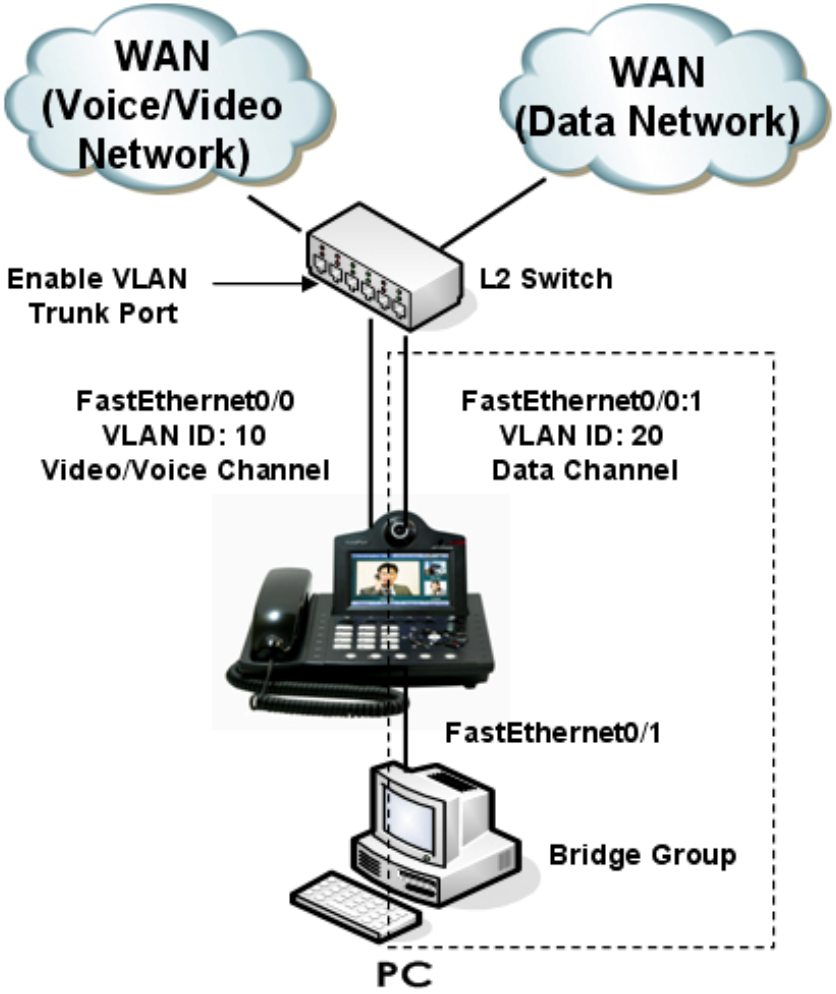


VLAN + CoS

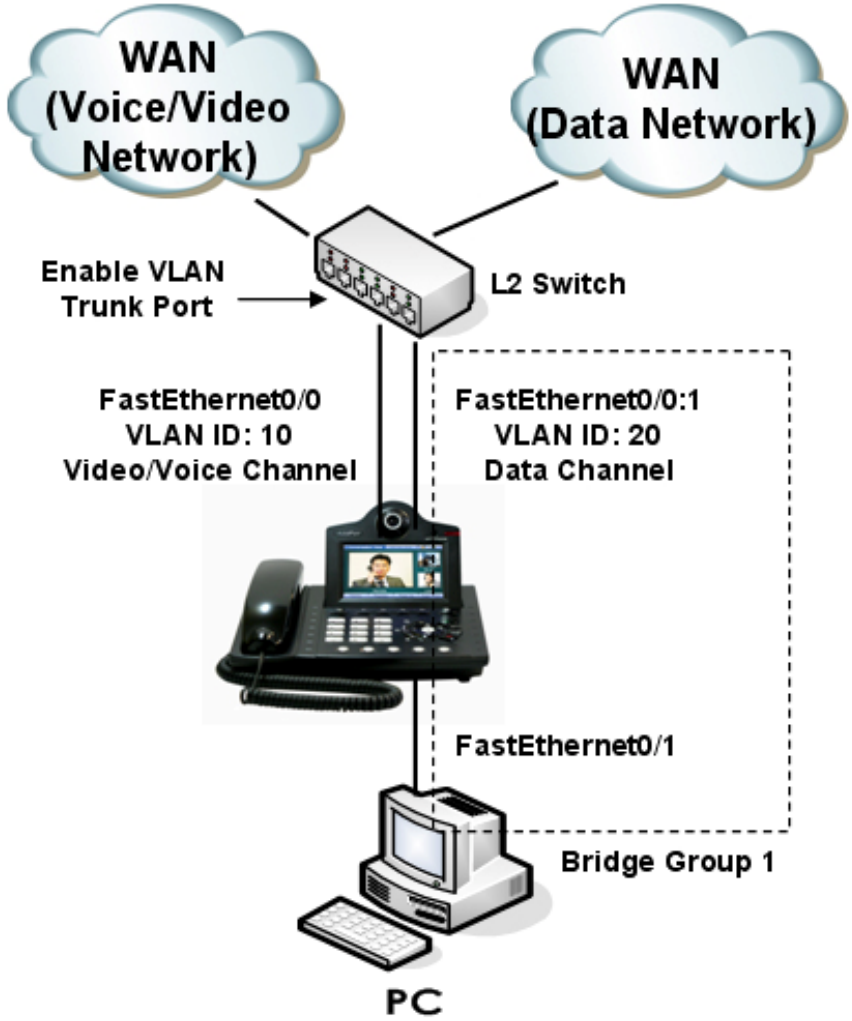



```
!
interface Loopback0
 ip address 127.0.0.1 255.0.0.0
!
interface FastEthernet0/0
 ip address 200.212.149.130 255.255.255.0
 encapsulation dot1Q 10
 ip nat outside
 ip policy-group 1
 speed auto
!
interface FastEthernet0/1
 ip address 10.1.1.1 255.255.255.0
 ip nat inside
 speed auto
!
ip route 0.0.0.0 0.0.0.0 200.212.149.1
!
access-list 1 permit 10.1.1.0 0.0.0.255
!
ip policy-list 1 local signaling cos 7
ip policy-list 1 local rtp cos 7
ip policy-list 1 default cos 0
!
ip nat inside source list 1 interface FastEthernet0/0 overload
!
```

802.1Q VLAN +Bridge

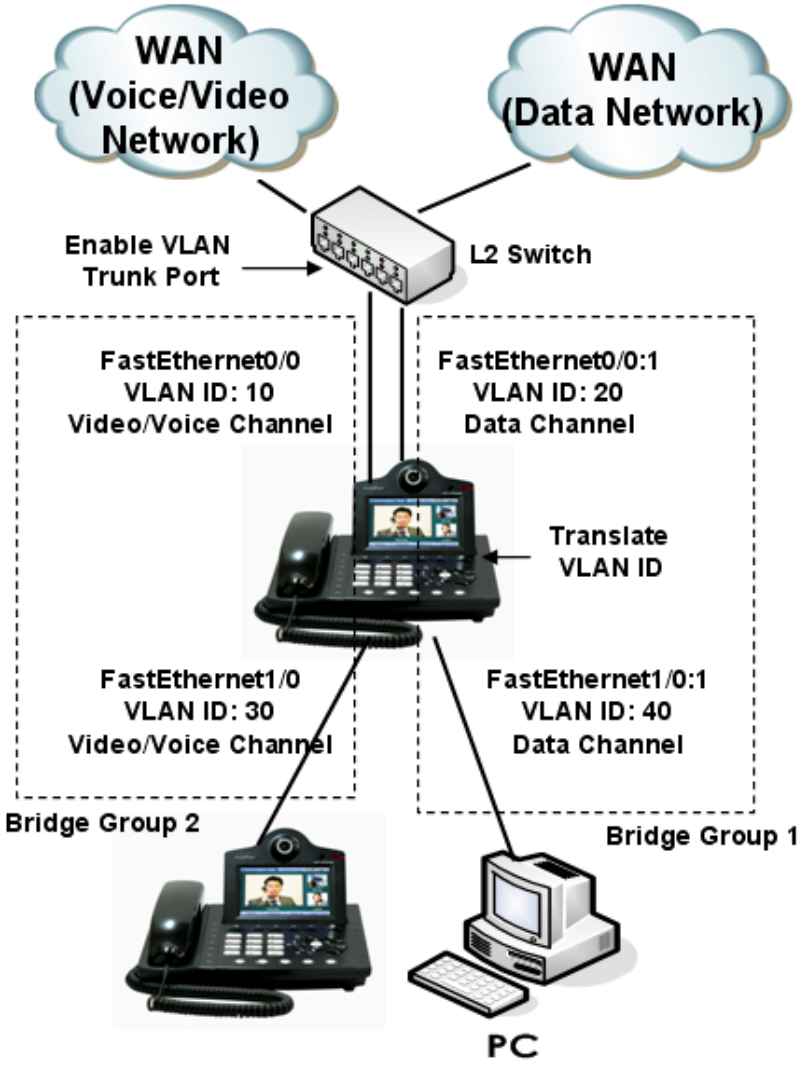


VLAN + Single Bridge Group




```
!
interface Loopback0
 ip address 127.0.0.1 255.0.0.0
!
interface FastEthernet0/0
 ip address 200.212.149.130 255.255.255.0
 encapsulation dot1Q 10
 speed auto
!
interface FastEthernet0/1
 no ip address
 bridge-group 1
 speed auto
!
interface FastEthernet0/0:1
 no ip address
 encapsulation dot1Q 20
  bridge-group 1
!
no ip routing
!
ip route 0.0.0.0 0.0.0.0 200.212.149.1
!
!
!
```

VLAN + Double Bridge Group




```
!
interface FastEthernet0/0
 ip address 200.212.149.130 255.255.255.0
 encapsulation dot1Q 10
 bridge-group 2
 speed auto
!
interface FastEthernet0/1
 no ip address
 encapsulation dot1Q 30
 bridge-group 2
 speed auto
!
interface FastEthernet0/0:1
 no ip address
 encapsulation dot1Q 20
 bridge-group 1
!
interface FastEthernet1/0:1
 no ip address
 encapsulation dot1Q 40
 bridge-group 1
!
no ip routing
!
ip route 0.0.0.0 0.0.0.0 200.212.149.1
!
```

Video Phone Series

Thank you!

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