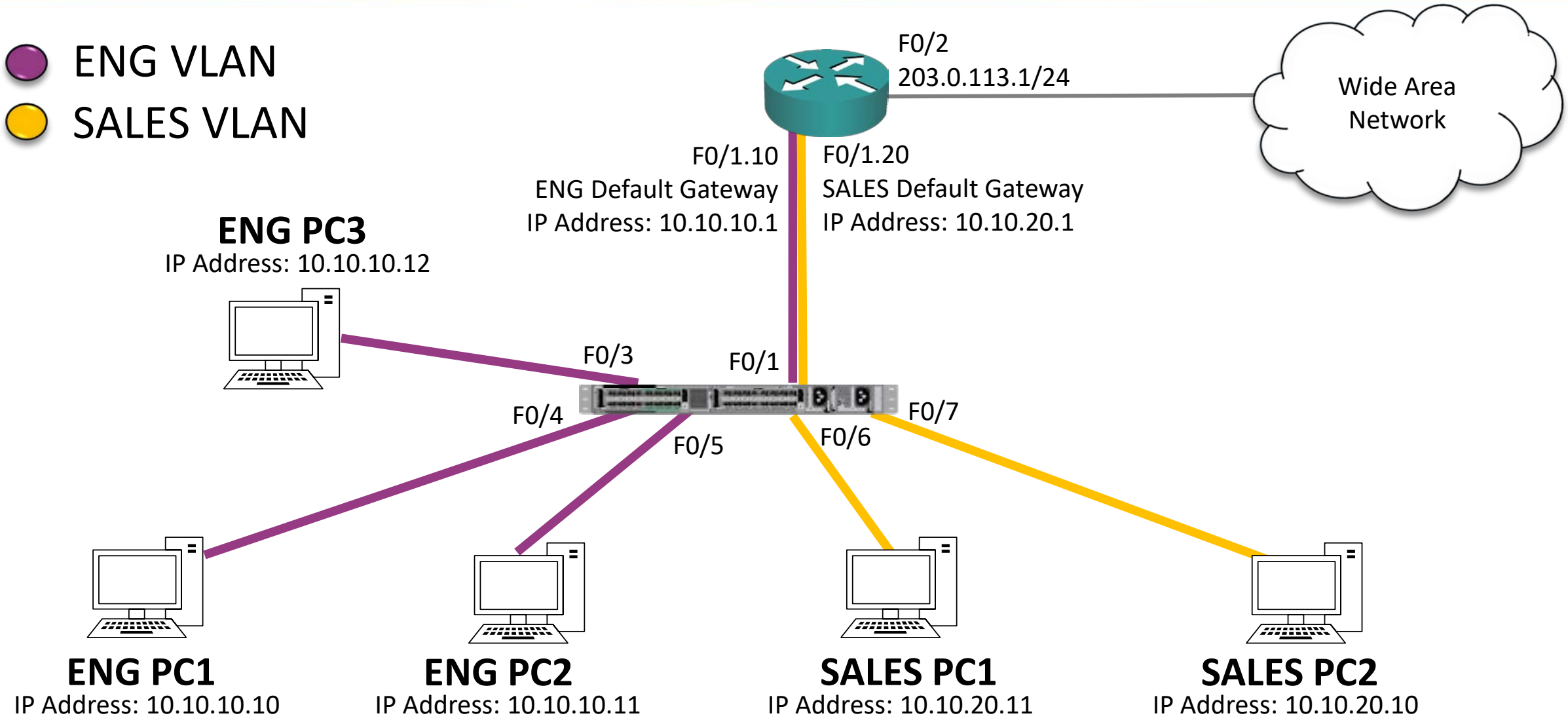


Option 2: Router on a Stick



- ENG VLAN
- SALES VLAN



Option 2 Configuration



```
R1(config)#interface FastEthernet 0/1
R1(config-interface)#no ip address
R1(config-interface)#no shutdown
R1(config)#interface FastEthernet 0/1.10
R1(config-interface)#encapsulation dot1q 10
R1(config-interface)#ip address 10.10.10.1 255.255.255.0
R1(config)#interface FastEthernet 0/1.20
R1(config-interface)#encapsulation dot1q 20
R1(config-interface)#ip address 10.10.20.1 255.255.255.0
R1(config)#ip route 0.0.0.0 0.0.0.0 203.0.113.2
```

```
SW1(config)#interface FastEthernet 0/1
SW1(config-if)#switchport mode trunk
```

Router on a Stick Considerations



- You do not need a separate physical interface for every VLAN – you are less likely to run out of interfaces
- Traffic being routed within the campus has to go up and down the same physical Ethernet cable to the router – there is more contention for bandwidth than when using separate interfaces

Inter-VLAN Routing Lab

