

VLAN Trunking Protocol VTP



- The VLAN Trunking Protocol (VTP) allows you to add, edit or delete VLANs on switches configured as VTP Servers, and have other switches configured as VTP Clients synchronise their VLAN database with them
- This can be convenient if you manage a large campus
- You will still need to perform port level VLAN configuration on the switches

VLAN Trunking Protocol VTP



- Be careful if using VTP – if you accidentally introduce a switch with a higher VLAN database revision number into the domain it can wipe out all your production VLANs
- If using both DTP and VTP, the VTP domain name has to match on neighbour switches for trunks to be formed by DTP

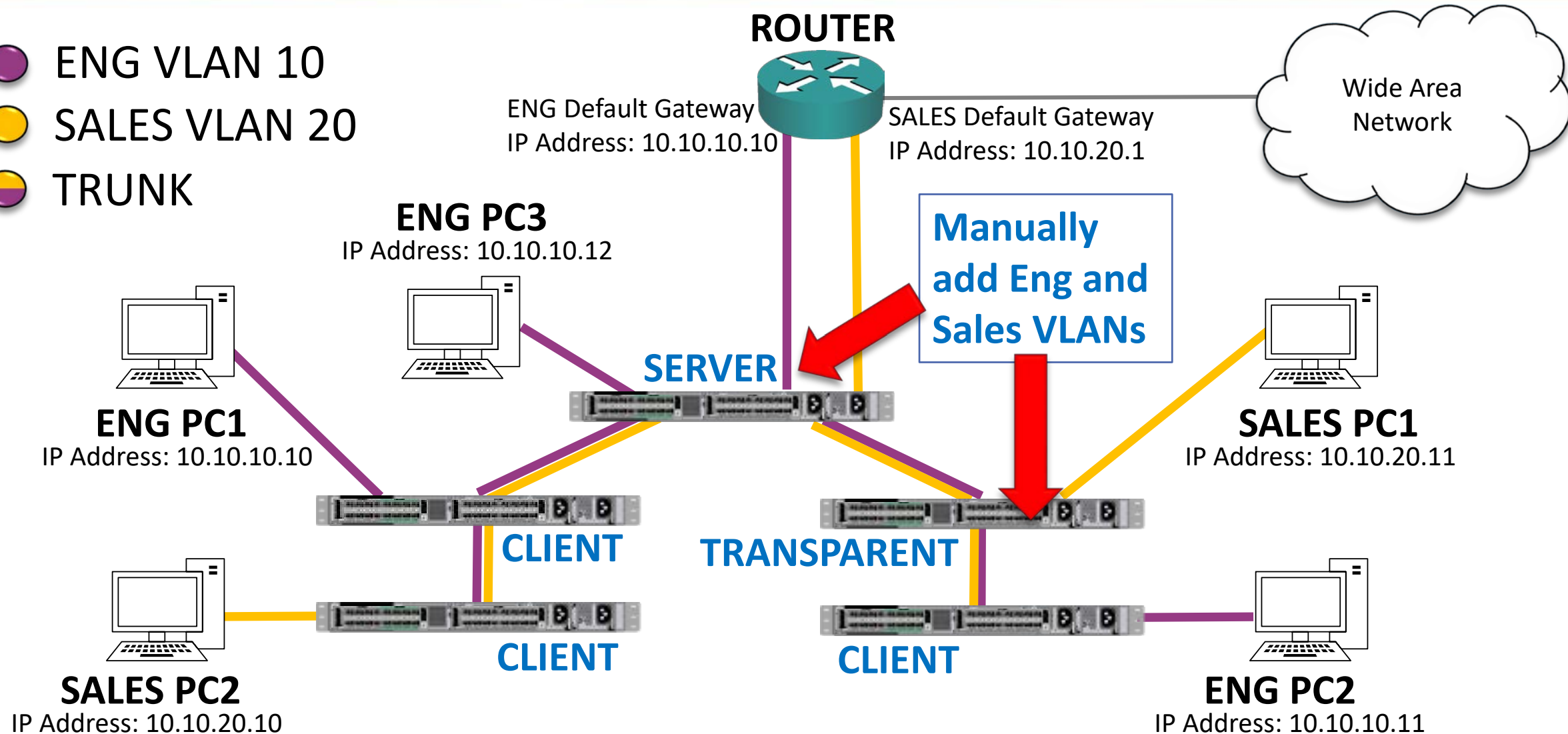
VTP Modes



- VTP Server: Can add, edit or delete VLANs. A VTP Server will synchronise its VLAN database from another Server with a higher revision number.
- VTP Client: Cannot add, edit or delete VLANs. A VTP Client will synchronise its VLAN database from the Server with the highest revision number.
- VTP Transparent: Does not participate in the VTP domain. Does not advertise or learn VLAN information but will pass it on. Can add, edit or delete VLANs in its own local VLAN database.

VTP Transparent Co-Existence

- ENG VLAN 10
- SALES VLAN 20
- TRUNK



VTP Configuration

```
SW1(config)#vtp domain Flackbox
```

```
SW1(config)#vtp mode server
```

or

```
SW1(config)#vtp mode client
```

or

```
SW1(config)#vtp mode transparent
```

```
SW1(config)#vlan 20
```

```
SW1(config-vlan)#name sales
```

(Cannot add VLAN if VTP Client)

Verification – show vtp status

```
SW1#show vtp status
VTP Version : 2
Configuration Revision : 6
Maximum VLANs supported locally : 255
Number of existing VLANs : 8
VTP Operating Mode : Server
VTP Domain Name : Flackbox
VTP Pruning Mode : Disabled
VTP V2 Mode : Disabled
VTP Traps Generation : Disabled
MD5 digest : 0x82 0xED 0x2C 0x99 0xBE 0xB8 0xEE 0xE1
Configuration last modified by 0.0.0.0 at 3-1-93 00:07:47
Local updater ID is 0.0.0.0 (no valid interface found)
```

VTP Lab

