

## CCNP BCMSN Notes - VLANs and Trunks

The normal range allows for VLANs 1 -1005; IEEE 802.1Q expands this to 1 - 4095. VTP version 1 and 2 only support VLANs 1 - 1005. VTPv3 will support extended VLANs but isn't available yet. Dynamic VLANs can be configured by a VLAN Membership Policy Server (VMPS). Trunk types: **&#160;&#160;&#160;&#160; Inter-Switch Link (ISL)** - Cisco proprietary; 26-byte header **&#160;&#160;&#160;&#160; IEEE 802.1Q** - Open standard; 4-byte header IEEE 802.3ac extends the Ethernet MTU to 1522 to account for the 4-byte 802.1Q header. Trunk configuration:

```
Switch(config-if)# switchport mode {trunk | dynamic {desirable | auto}}
Switch(config-if)# switchport trunk encapsulation {isl | dot1q | negotiate}
Switch(config-if)# switchport trunk native vlan <vlan>
Switch(config-if)# switchport trunk allowed vlan <list>
```