

2.2 Switching Technologies

Jumbo Frames	9000 bytes
Port-by-Port MAC Address Filtering	For port security
BPDU Guard	End-systems guard that prevents
Root Guard	It secures the Root Bridge(a central device which has the highest priority of the root)
Collision Domains	Happens with single duplex networks
Private Collision Domain	Happens with switches in full-duplex
Straight-Through Cable	Have same wiring configuration on both sides
Csma/cd occurred	Stop Sending First
CSMA/CD	Long cable runs stop CSMA/CD
Packet Retransmission, Collision, Jam Signals etc	Normal
Late Collision	Abnormal
VLAN Devices Identifier	Either using MAC or Switch Port Numbers
Straight-Through Cable	Connecting dissimilar devices like pc to switch, printer to switch etc
Crossover Cable	Connecting similar devices, pc to pc, switch to switch
STP	Not only Bridging Loops but also prevents Broadcasts Storms
STP	Convergence is also the step by which Path is traced
All ports of standard Switch are cross-overed	This means that all of those ports connects to end devices and for that

reason, they want the end devices to treat the signal as Rx signal which, for the switches, are Tx signals. But if we are connecting Uplink Ports(without crossover), we are basically using them for connecting another switch and not end devices and for that reason we use the crossover cable to keep the signal intact

VoIP VLANing

To separate voice and data for the purpose of Voice Prioritizing

VLAN 1

Default VLAN, cannot be renamed