## Cheatography

## Troubleshooting Cheat Sheet by Mary F. Smith (boogie) via cheatography.com/86236/cs/20758/

Layer 1	Layer 2
bad connection cable placement	bad module
distance limitations splitting pairs in a cable	Layer 2 loops
cross talk transposed Tx/Rx	misconfigured port
	vlan configuration
Cables & Connections	
faulty cables or connections i.e. broken cables or	Layer 2 Loops
cable drop in electric box	spanning tree protocol failures can cause a
wrong category cable i.e. video across cat 3	broadcast storm
Disatance Limitations	Port Misconfiguration
Copper cabling max run is 100 meters	check for mismatched speeds, duplex settings, or
including Cat5, 5e, 6, 6a & 7	MDIX settings
Fiber multimode max run is 70 meters	check host, switch and switch port - turn off auto
	negotiate
EMI & cross talk	
cable running over florecent lights	vlan configuration
cable tray with electrical and network runs	all traffic must be routed between vlans
	all devices must be on the same subnet
Switched Transmit & Receive	Laws 0
Switch without MDIX wired w/ straight through	Layer 3
rather than crossover	duplicate ips
Fiber module, port cables may be switched	incorrect default gateway
red   receive & black   transmit	incorrect dns
	mismatched mtu
	Troubleshooting LAN & WAN issues w/ routing, sub-netting and services i.e. DNS



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