

Troubleshooting Cheat Sheet

by Mary F. Smith (boogie) via cheatography.com/86236/cs/20758/

Layer 1

bad connection cable placement distance limitations splitting pairs in a cable cross talk transposed Tx/Rx

Cables & Connections

faulty cables or connections i.e. broken cables or cable drop in electric box

wrong category cable i.e. video across cat 3

Disatance Limitations

Copper cabling max run is 100 meters

including Cat5, 5e, 6, 6a & 7

Fiber multimode max run is 70 meters

EMI & cross talk

cable running over florecent lights cable tray with electrical and network runs

Switched Transmit & Receive

Switch without MDIX wired w/ straight through rather than crossover

Fiber module, port cables may be switched

red | receive & black | transmit

Layer 2

bad module

Layer 2 loops

misconfigured port

vlan configuration

Layer 2 Loops

spanning tree protocol failures can cause a broadcast storm

Port Misconfiguration

check for mismatched speeds, duplex settings, or \mathtt{MDIX} settings

check host, switch and switch port - turn off auto negotiate

vlan configuration

all traffic must be routed between vlans all devices must be on the same subnet

Layer 3

duplicate ips
incorrect default gateway
incorrect dns
mismatched mtu

Troubleshooting LAN & WAN issues w/ routing, sub-netting and services i.e. DNS



By Mary F. Smith (boogie) cheatography.com/boogie/

Not published yet.

Last updated 20th August, 2020.

Page 1 of 1.

Sponsored by **Readable.com**Measure your website readability!
https://readable.com