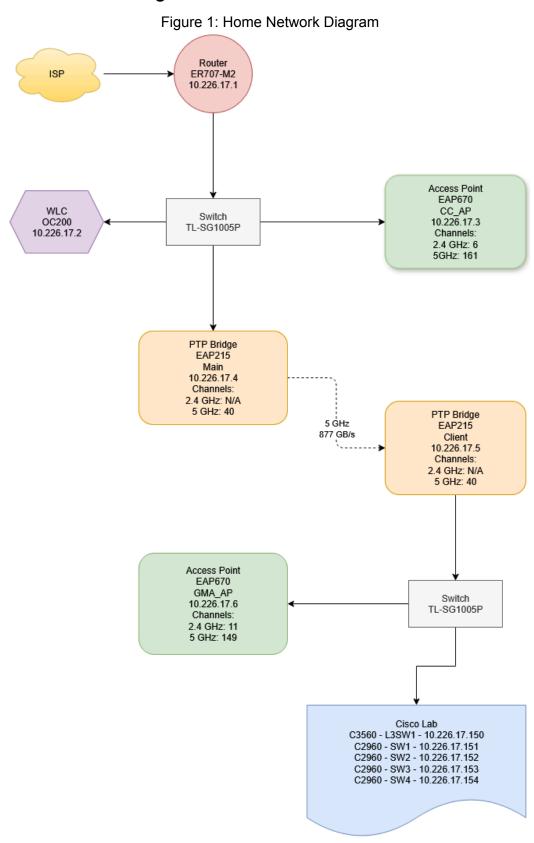
Network Portfolio

Introduction

This portfolio documents my home network details, built to extend Wi-Fi to an adjacent building using TP-Link Omada as well as a Cisco Lab for CCNA practice, showcasing my hands-on networking skills

Home Network Configuration Details



Components

• ER707-M2 Router (10.226.17.1)

- Model: ER707-M2 v1.20
- Firmware Version: 1.2.3 Build 20240822 Rel.52946
- Serial Number: Y24C119000488Role: Primary router, ISP connection
- Config: DHCP server, NAT enabled, 802.1r,
- Network details:
 - **1**0.226.17.0/24
 - 10.226.17.1-50 reserved from DHCP pool
- o Connection: Ethernet to TL-SG1005P switch

OC200 WLC (10.226.17.2)

- Model: OC200
- o Firmware Version: 2.21.7 Build 20250707 Rel.72486
- Serial Number: Y2490Q9000123
- Role: Central controller for Omada SDN
- Config: WLC managing 4 Access Points, 802.1r roaming, firmware auto-update enabled
- Connection: Ethernet to TL-SG1005P(1) switch (PoE provided)

• EAP670 CC_AP (10.226.17.3)

- Model: EAP670(US) v2.0
- Firmware Version: 1.1.1 Build 20250326 Rel. 59884
- o Serial Number: Y24C0T5000189
- Role: Access point for CC building
- Config:
 - 2.4 GHz Channel: 65GHz Channel: 161
- Connection: Ethernet to TL-SG1005P(1) switch (PoE provided)

• EAP215 Main PTP (10.226.17.4)

- Model: EAP215-Bridge(US) v2.0
- o Firmware Version: 1.0.2 Build 20241209 Rel. 43851
- o Serial Number: Y2491A1B00195
- Role: Primary AP in PTP bridge (877 MB/s 5 GHz Link)
- o Config:
 - 2.4 GHz: Not Supported
 - 5GHz: 40
 - Config notes: AP configured to not broadcast SSID to prevent endpoint connection
- Connection: Ethernet to TL-SG1005P(1) switch (PoE via injector)

• EAP215 Client PTP (10.226.17.5)

- Model: EAP215-Bridge(US) v2.0
- o Firmware Version: 1.0.2 Build 20241209 Rel. 43851
- Serial Number: Y2491A1A00610
- Role: Client to Primary AP in PTP bridge (877 MB/s 5 GHz Link)

- o Config:
 - 2.4 GHz: Not Supported
 - 5 GHz: 40
 - Config notes: AP configured to not broadcast SSID to prevent endpoint connection
- Connection: Uplink to Primary AP PTP bridge, downlink to TL-SG1005P(2), (PoE via injector)
- EAP670 GMA_AP (10.226.17.6)
 - Model: EAP670(US) v2.0
 - Firmware Version: 1.1.1 Build 20250326 Rel. 59884
 - Serial Number: Y2491P6001312
 - Role: Access point for building GMA
 - o Config:
 - 2.4 GHz: 115 GHz: 149
 - Connection: TL-SG1005P(2) switch (PoE provided)
- Cisco Lab (10.226.17.150 10.226.17.154)
 - o Role: Home lab for CCNA practice
 - o Config:
 - C3560
 - L3SW1 10.226.17.150
 - C2960
 - SW1 10.226.17.151
 - SW2 10.226.17.152
 - SW3 10.226.17.153
 - SW4 10.226.17.154
- Future Plans
 - Plan to change SG-1005P unmanaged switches for managed switches to allow tagged traffic to be sent throughout the LAN
 - Potential replacements:
 - TL-SG3210XHP-M2
 - TL-SG2008P
 - o Implement Management VLAN once I can get tagged traffic across the switches
 - Add outdoor rated Access Points
 - One added to GMA building facing west
 - One added to CC building facing west
 - Purpose is to extend network coverage to outdoor spaces
 - Plan to change SSIDs to match a standard naming convention