



Final Network Services Report

July 19, 2024

Event: IEEE 802 Plenary Session
Venue: Le Centre Sheraton Montreal
Dates: July 15-19, 2024

SUMMARY

Linespeed Events, LLC is providing comprehensive wired and wireless network services in 24 meeting rooms, ballroom foyer and offices in the Le Centre Sheraton Montreal Hotel (LCSM). Linespeed deployed redundant routers configured to failover in case of equipment failure. Linespeed is also providing a local document server synchronized in near real time with mentor.ieee.org.

The local area network (LAN) supporting the meeting space is comprised of a main distribution frame (MDF) and one intermediate distribution frame (IDF). Linespeed's wireless local area network (WLAN), comprised of 40 IEEE 802.11 a/g/n/ac/ax compliant WiFi 6e access points is currently providing Wi-Fi connectivity to 1116 unique devices (laptops, tablets, smartphones, smartwatches, etc.) at this session (Figure 1.)

LCSM provided IEEE 802 with a symmetrical 1Gb/s Internet circuit and a /29 CIDR block of public routable IPv4 address space for this event.

Linespeed tested all Cat5/Cat6 copper lines interconnecting the IDF and meeting room ports prior to deploying network hardware.

Bandwidth utilization graphs for the past week, 48 hours and 24 hours are shown in Figures 2-4.

No problems with the network were reported during the week.

WLAN DEPLOYMENT

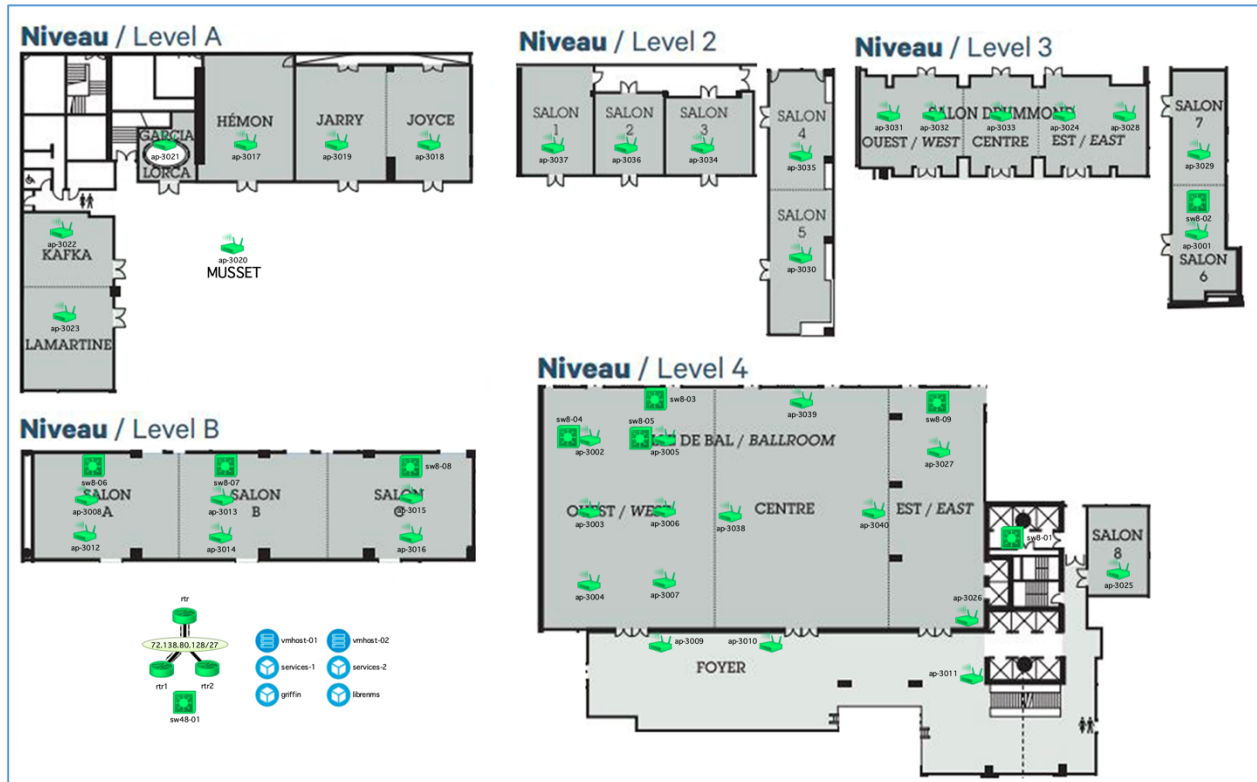


Figure 1. Forty access points were deployed throughout the meeting space.

FINAL STATISTICS (as of 1PM 7/19/24)

- Total Internet data: 4.93 TB
- Total Internet data inbound: 4.06 TB
- Total Internet data outbound: 0.867 TB
- Inbound Internet bandwidth utilization
 - Peak: 555.76 Mb/s
 - 95th Percentile: 269.69 Mb/s
- Outbound Internet bandwidth utilization
 - Peak: 217.62 Mb/s
 - 95th Percentile: 51.86 Mb/s
- Maximum wireless network associations: 1285 unique devices
- Dropped packets: 0

BANDWIDTH UTILIZATION

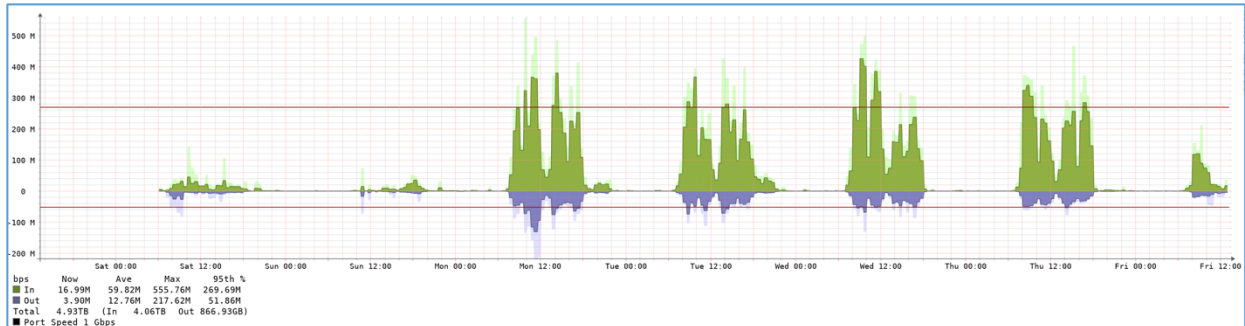


Figure 2. External Bandwidth: past week.

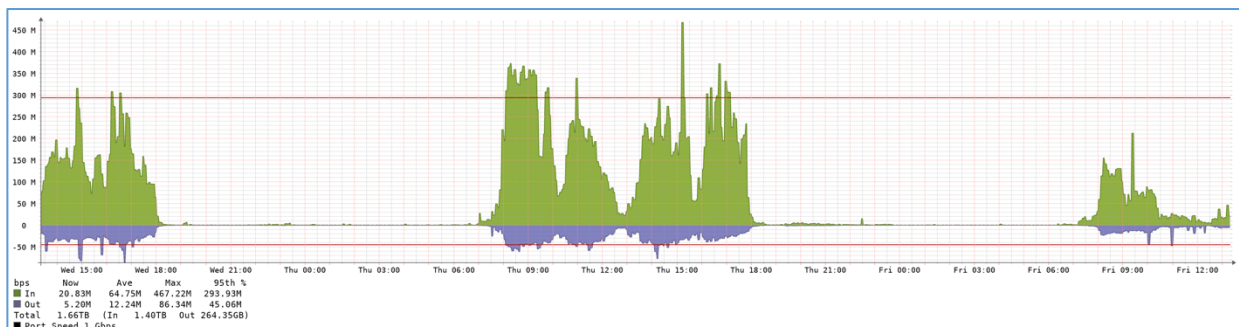


Figure 3. External Bandwidth: past 48 hours

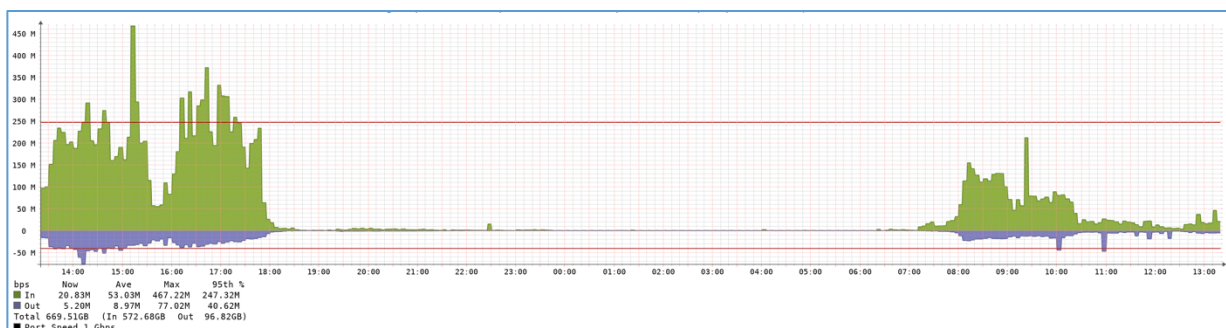


Figure 4. External Bandwidth: past 24 hours