LINESPEED

Network Services Report
November 15, 2024

Event: IEEE 802 Plenary Session
Venue: Hyatt Regency Vancouver, Vancouver, BC Canada
Dates: November 11-15, 2024

SUMMARY

Linespeed Events, LLC is providing comprehensive wired and wireless network services in 21 meeting rooms, ballroom foyers and offices at the Hyatt Regency Vancouver. Linespeed deployed redundant routers configured to failover in case of hardware failure. Linespeed is also providing a landing page information portal (ieee802.linespeed.com) and 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 three intermediate distribution frames (IDFs). Linespeed's wireless local area network (WLAN), comprised of 42 IEEE 802.11 a/g/n/ac/ax compliant WiFi 6E access points is currently providing Wi-Fi connectivity to 2782 unique mac addresses (including laptops, tablets, smartphones, smartwatches, etc.) at this session (Figure 1.)

The Hyatt Regency Vancouver provided IEEE 802 with access to a shared symmetrical 1Gb/s Internet circuit and a /28 CIDR block of public routable IPv4 address space for this event.

Bandwidth utilization graphs for the week, a 48 hour period and a 24 hour period are represented in Figures 2-4.

There were no meeting network issues or outages reported during the week.
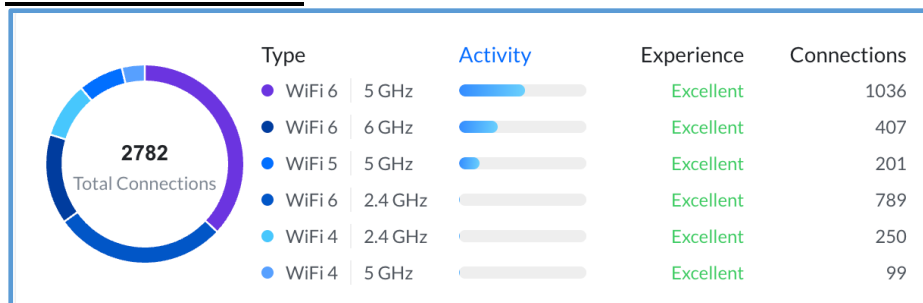
WLAN DEPLOYMENT

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

FINAL STATISTICS (as of 10:30AM 11/15/24)

- Total Internet data: 5.54 TB
- Total Internet data inbound: 4.42 TB
- Total Internet data outbound: 1.12 TB
- Inbound Internet bandwidth utilization
  - Peak: 504.14 Mb/s
  - 95th Percentile: 305.03 Mb/s
- Outbound Internet bandwidth utilization
  - Peak: 208.33 Mb/s
  - 95th Percentile: 75.18 Mb/s
- Wireless network associations: 2782 unique mac addresses

WLAN Connections

	Type		Activity	Experience	Connections
●	WiFi 6	5 GHz		Excellent	1036
●	WiFi 6	6 GHz		Excellent	407
●	WiFi 5	5 GHz		Excellent	201
●	WiFi 6	2.4 GHz		Excellent	789
●	WiFi 4	2.4 GHz		Excellent	250
●	WiFi 4	5 GHz		Excellent	99

2782 Total Connections
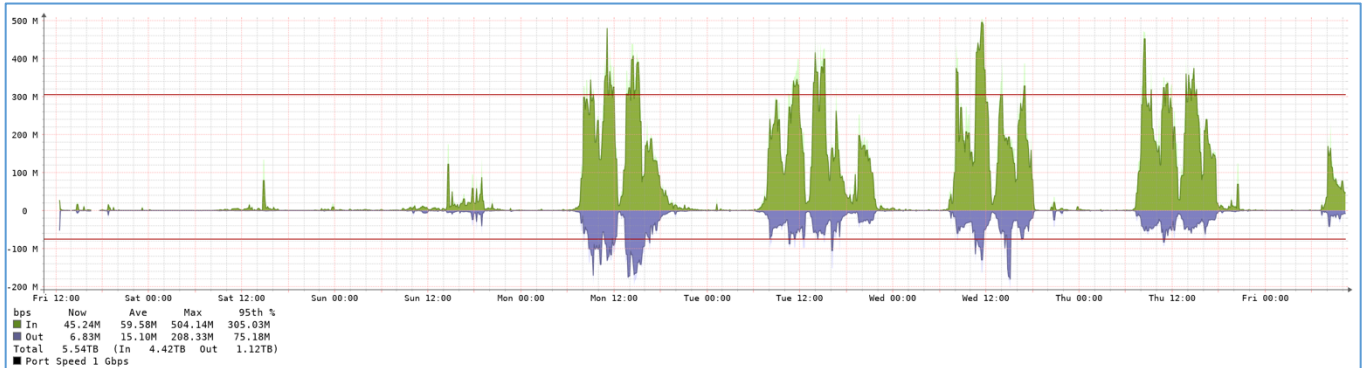
BANDWIDTH UTILIZATION
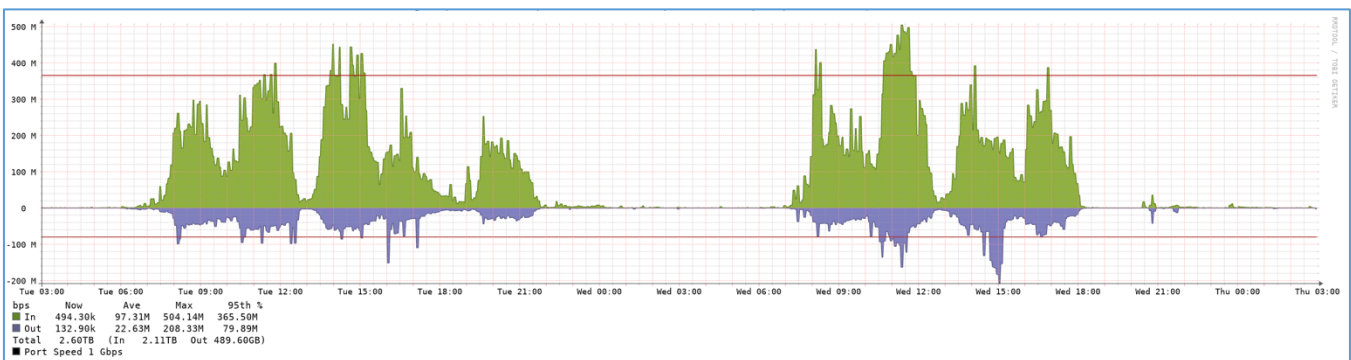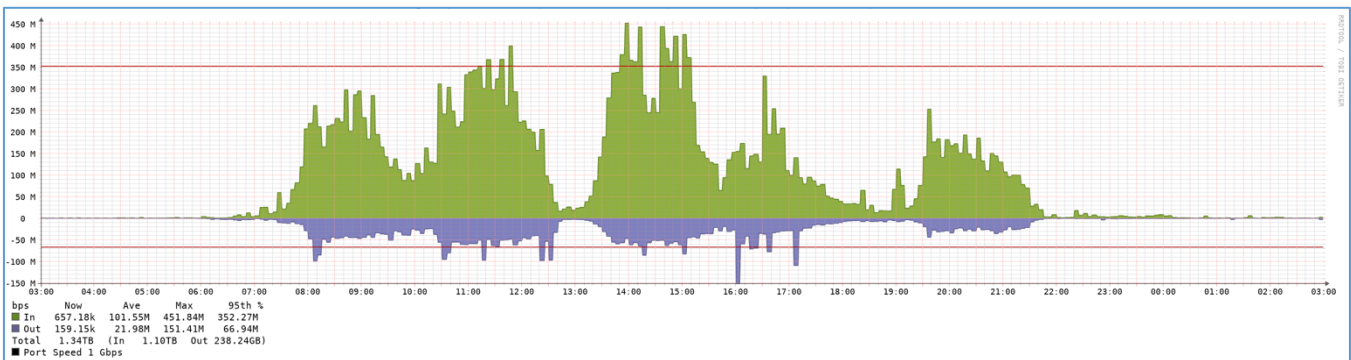

Figure 2. External Bandwidth: meeting week.

Figure 3. External Bandwidth: 48 hours.

Figure 4. External Bandwidth: 24 hours.