LINESPEED

<u>Final Network Services Report</u>
January 19, 2018

Event: IEEE 802 Wireless Groups Interim Session
Venue: Irvine Hotel, Irvine CA USA
Dates: January 15-19, 2018

<u>SUMMARY</u>

Linespeed Events, LLC is providing comprehensive wired and wireless network services in 14 meeting rooms, foyers and offices in the Irvine Hotel. 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 one intermediate distribution frame (IDF) cross connected to the main distribution frame (MDF). Linespeed's wireless local area network (WLAN), comprised of 24 IEEE 802.11 a/g/n/ac compliant access points is currently providing Wi-Fi connectivity to 660+ unique devices (laptops, tablets, smartphones, smartwatches, etc.) at this session (Figure 1.)

IEEE 802W has contracted with the Irvine Hotel to provide a symmetrical 100Mb/s Internet circuit and a /29 CIDR block of public routable IPv4 address space for this event.

Linespeed provisioned the network with redundant routers configured to failover in case of an outage.

Linespeed tested all Cat5 copper lines interconnecting IDFs and meeting room ports prior to deploying network hardware.

Bandwidth utilization and latency for the past 24 hours are shown in Figure 2.

<u>ISSUES</u>

We are pleased to report that there were no network related problems or issues reported to the Network Help Desk or Linespeed staff during this session.
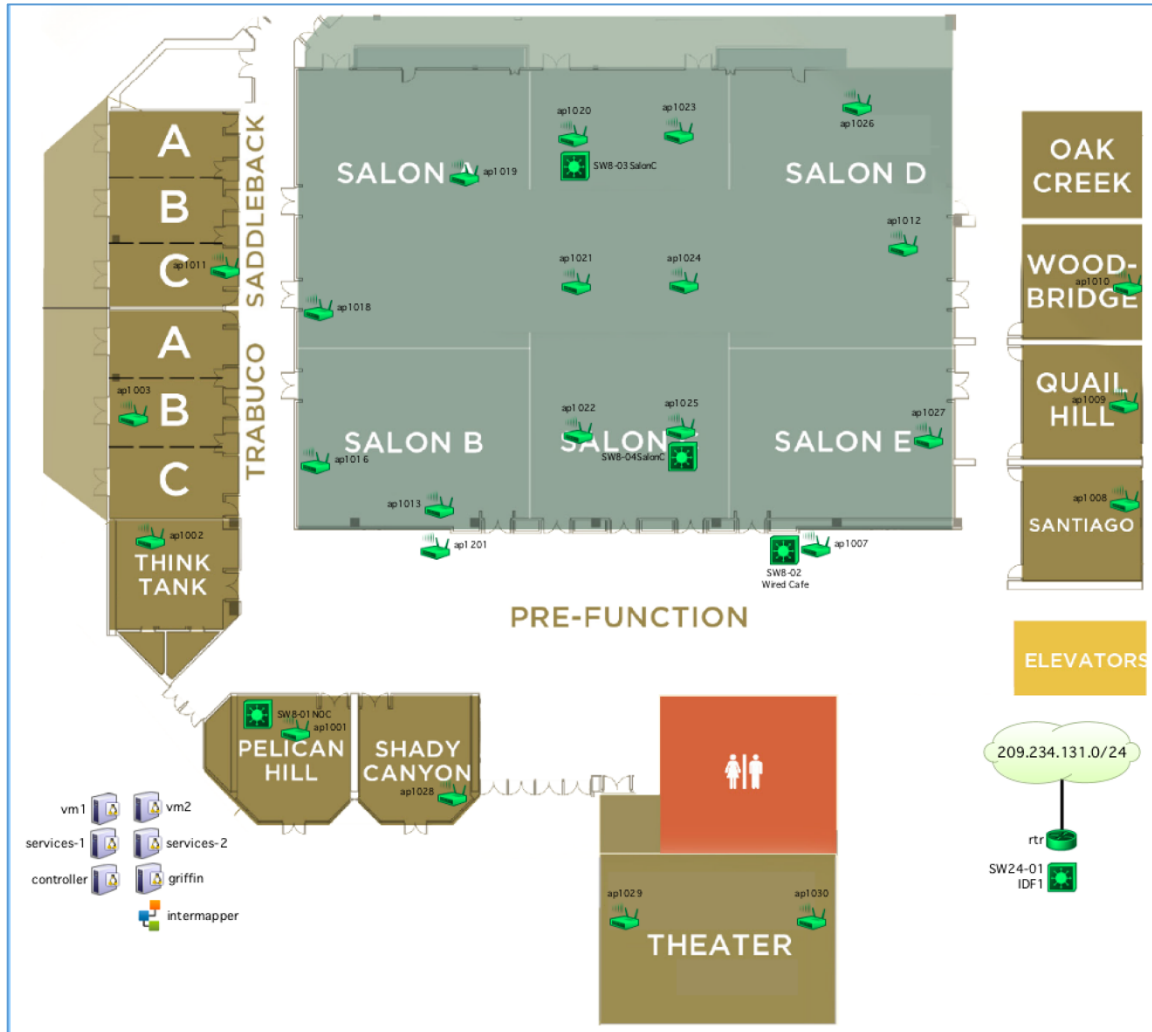
WLAN DEPLOYMENT

Figure 1. Twenty-four access points were deployed throughout the meeting space.

FINAL STATISTICS

- Total Internet data inbound: 846 GB
- Total Internet data outbound: 353 GB
- Maximum wireless network associations: 629 unique devices

BANDWIDTH UTILIZATION

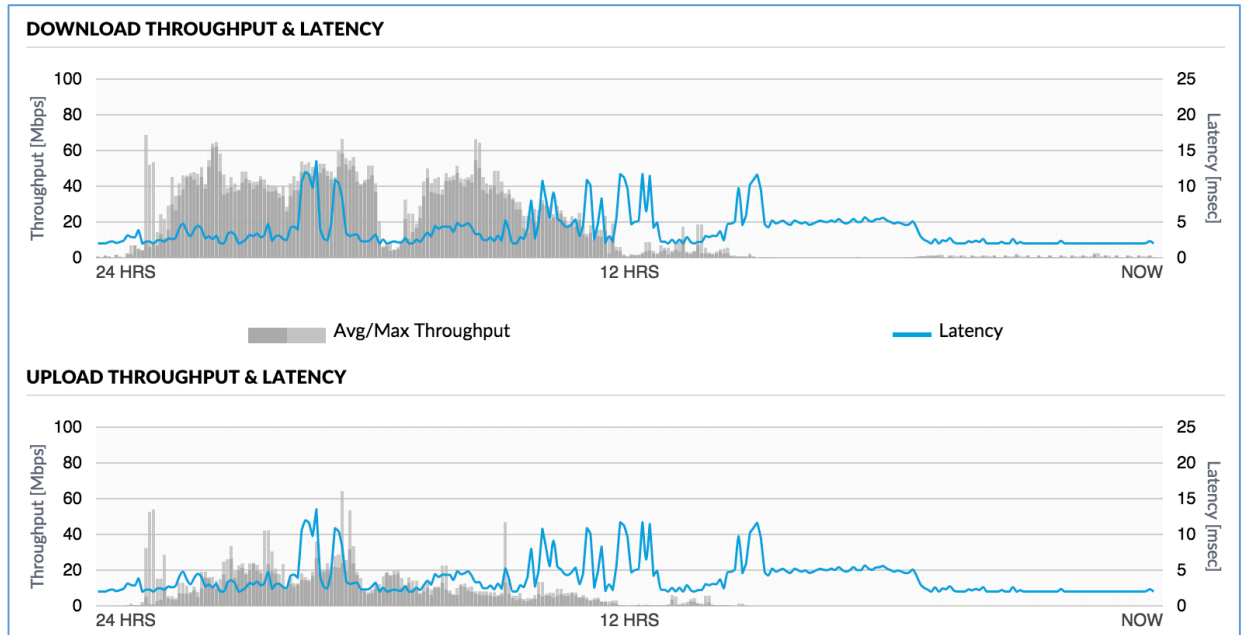**DOWNLOAD THROUGHPUT & LATENCY**

UPLOAD THROUGHPUT & LATENCY

Figure 4. External Bandwidth & Latency: past 24 hrs.