



Network Services Report

July 14, 2023

Event: IEEE 802 Plenary Session

Venue: Estrel Berlin

Dates: July 10-14, 2023

SUMMARY

Linespeed Events, LLC is providing comprehensive wired and wireless network services in 22 meeting rooms, ballroom foyer and offices in the Estrel Berlin. Linespeed deployed redundant routers configured to failover in case of equipment 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 eight intermediate distribution frames (IDFs). Linespeed's wireless local area network (WLAN), comprised of 39 IEEE 802.11 a/g/n/ac/ax compliant WiFi 6 access points is currently providing Wi-Fi connectivity to 1200 unique devices (laptops, tablets, smartphones, smartwatches, etc.) at this session (Figure 1.)

Estrel Berlin provided IEEE 802 with a symmetrical 1Gb/s Internet circuit provisioned for 500Mb/s and a /30 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.

WLAN DEPLOYMENT

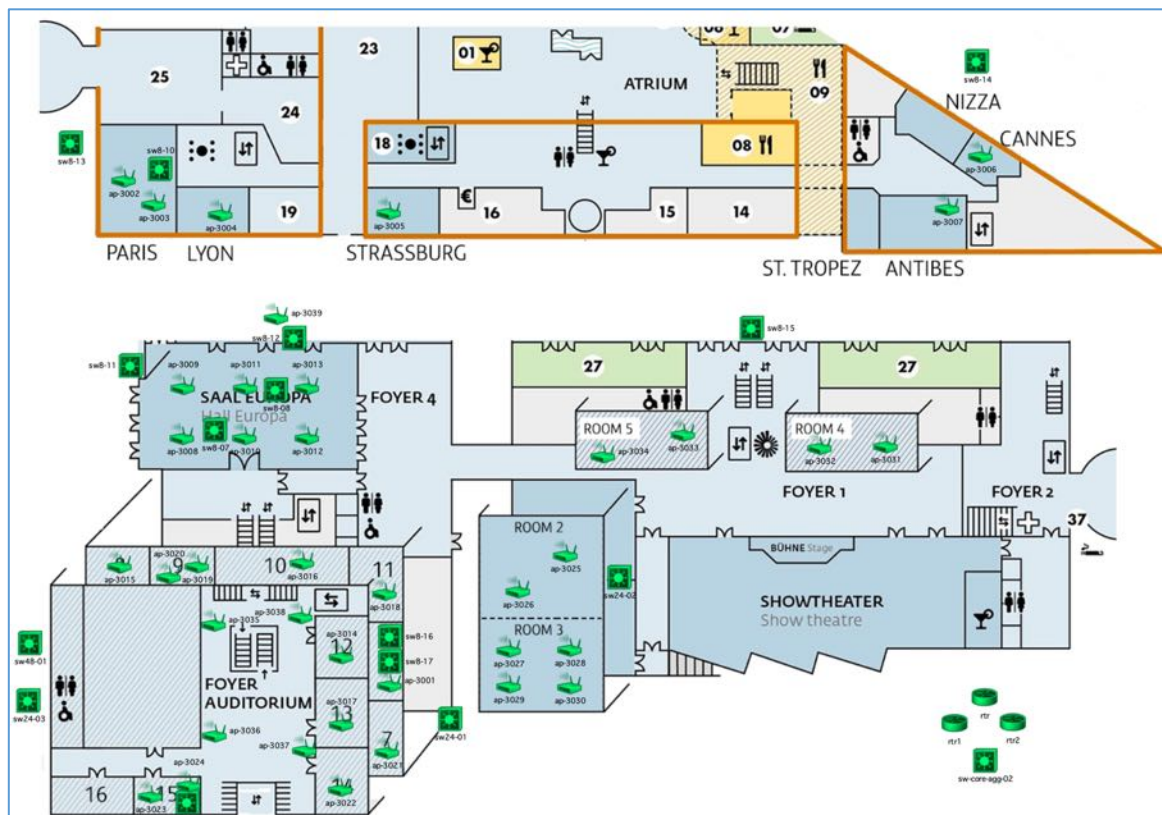


Figure 1. Thirty-nine access points were deployed throughout the meeting space.

FINAL STATISTICS (as of 1PM 7/14/23)

- Total Internet data: 4.10 TB
- Total Internet data inbound: 3.164 TB
- Total Internet data outbound: 0.943 TB
- Inbound Internet bandwidth utilization
 - Peak: 437.10 Mb/s
 - 95th Percentile: 193.16 Mb/s
- Outbound Internet bandwidth utilization
 - Peak: 193.16 Mb/s
 - 95th Percentile: 58.03 Mb/s
- Wireless network associations: 1380 unique devices
- Wired network clients: 58 unique devices

BANDWIDTH UTILIZATION



Figure 2. External Bandwidth: one week.



Figure 3. External Bandwidth: 48 hours.



Figure 4. External Bandwidth: 24 hours.