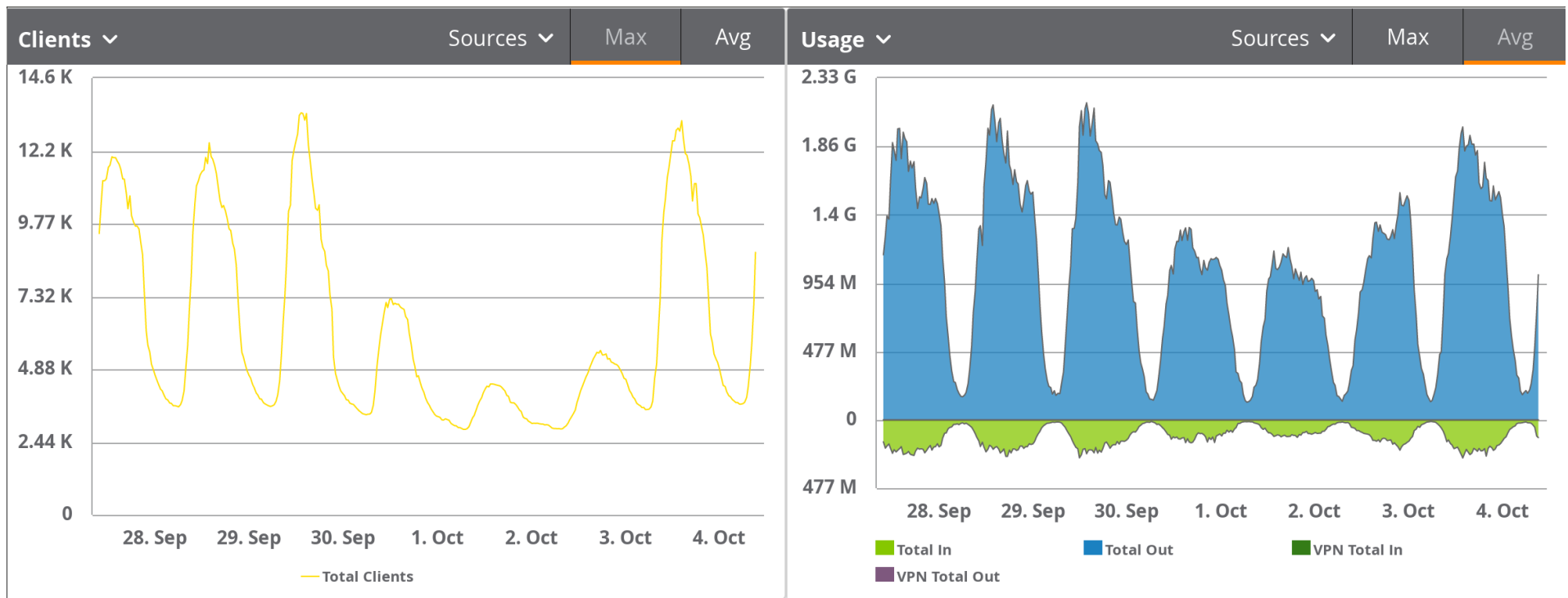


DePaul University Wireless

Technology, Status, Challenges and Plans

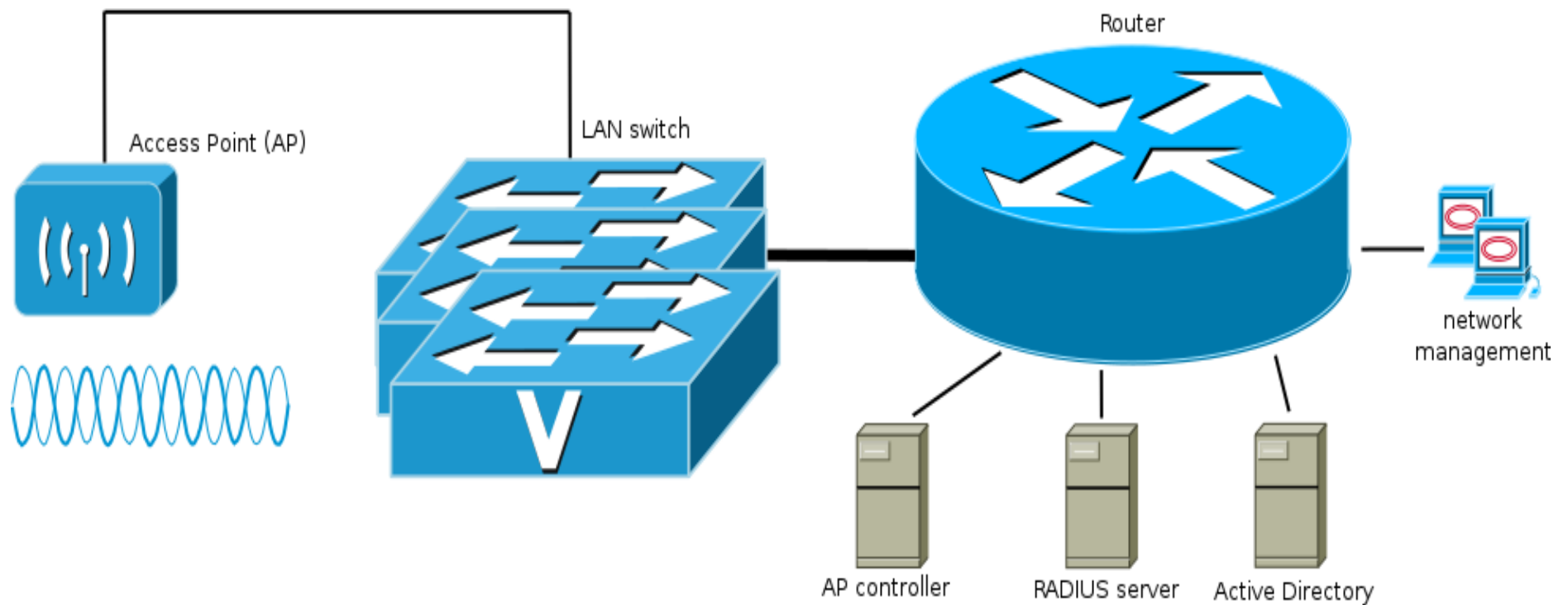
As of Today



Survey

- Sent to thousands of students last spring
- Over 1000 write-in comments
- Significant amount of negative feedback, e.g.
 - Extremely dissatisfied: $> 1/3$
- Various problems include key metrics:
 - Coverage area
 - Reliability
 - Performance

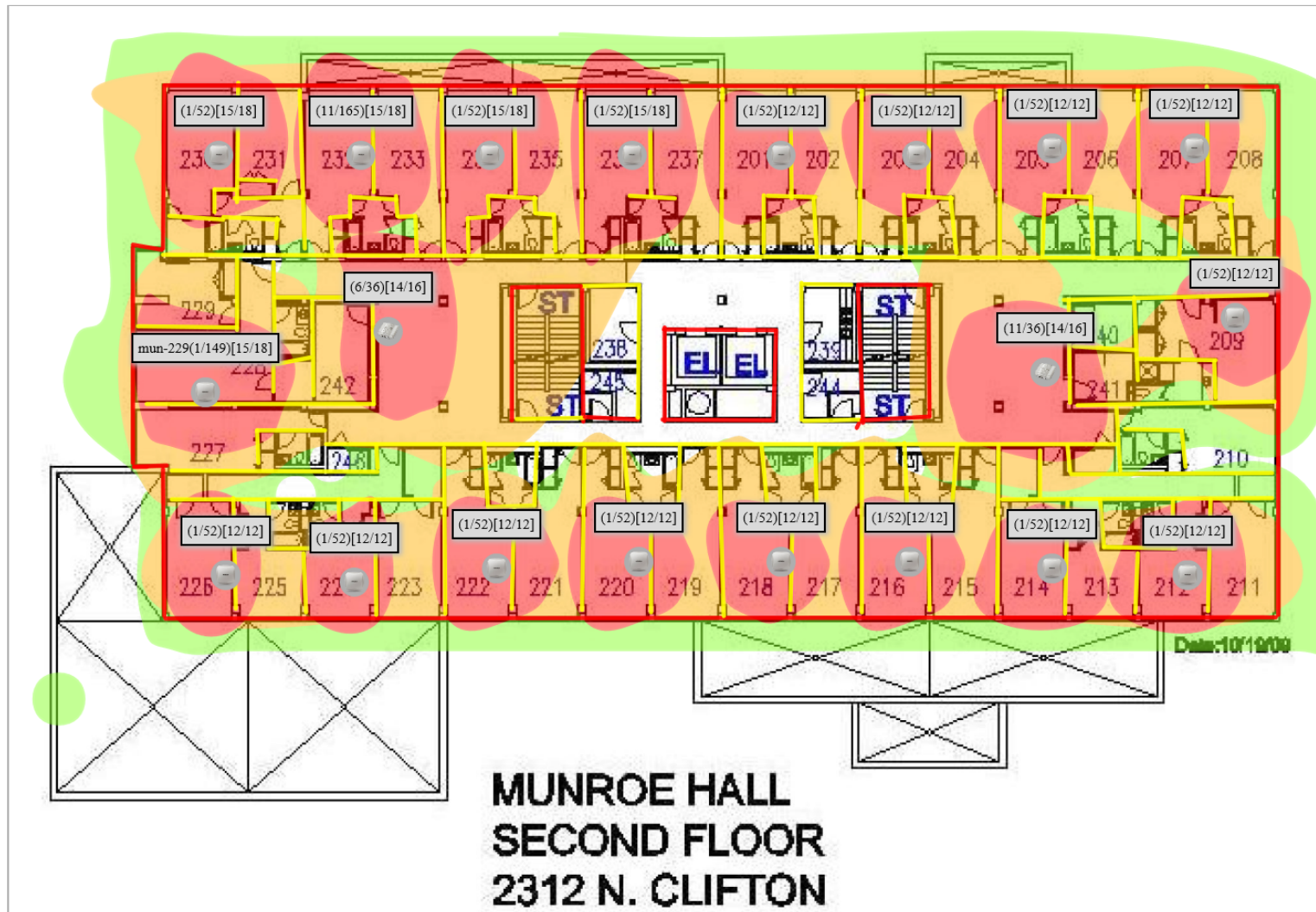
Components Overview



Hardware

- Access Point(s)
- Wiring
- LAN switch(es)
- Wireless controller(s)
- Router(s)
- RADIUS server(s)
- Windows AD domain controller(s)
- Network management system(s)

Airspace



Wireless networks (BSSIDs)

- depaulsecure
- eduroam
- legacy devices: depaulwireless
- other: e.g. guests
- other: 3rd party networks

Wireless Metrics

- Traffic rates, utilization, latency and performance
- Availability
- End user OS and hardware diversity
- Address assignment, allocation and management
- Security and protection, man-in-the-middle/rogue
- AP / airspace management

Support and Help

- <https://wireless.depaul.edu>
- Technology Support Center x28765
- Genius Squad
- We are currently monitoring social media

Future Plans

- Tuning
- Measurement and monitoring
- Upgrades
- Equipment refresh
- Documentation and usage improvements
- Ubiquitous coverage