TALK

Keith Parsons - Top Ten Tips for Wireless LAN Designs

Keith Parsons · CWNPTV · 2020-10-06

Keith Parsons's top ten tips for wireless LAN design, recorded for CWNPTV, the video channel of the CWNP certification program.

Key points

- Design starts with the whole flow from client to internet; build and test from the core out to the edge, so the wired side is proven before access points go up.
- Other Wi-Fi is the biggest source of interference for Wi-Fi, and wider channels are not a simple multiplier once overhead and contention are counted.
- Test the Wi-Fi alone first (open, no encryption, no captive portal), then add each layer back, so a problem can be pinned to one step.
- Design for the requirements and the special high-density areas, not for marketing ratios such as one access point per so many square feet or one per classroom.
- Access points differ, so test them on site, and survey in continuous mode rather than stop and go.

Chapters

1. 02:05 Wi-Fi in the whole network flow
2. 04:09 Build from the core out to the edge
3. 06:00 Wider channels and interference
4. 08:04 Airtime and overhead
5. 12:07 Test the Wi-Fi alone first
6. 14:02 Overlap in dBm, and which band
7. 16:01 Requirements and special density areas
8. 18:02 Access points differ

9. 22:00 Best practice guides
10. 24:10 Don't design by ratio
11. 30:15 Surveys: continuous, not stop and go
12. 34:02 How to make Wi-Fi go faster

Watch on YouTube (https://www.youtube.com/watch?v=Ou21RfvdQZk). More conference talks: wlan-talks.net (index by Victor Gatuna).

By Keith Parsons, CWNE #3, Wireless LAN Professionals. Free to read and share. Facts