



Wi-Fi sítě – návrh a monitoring

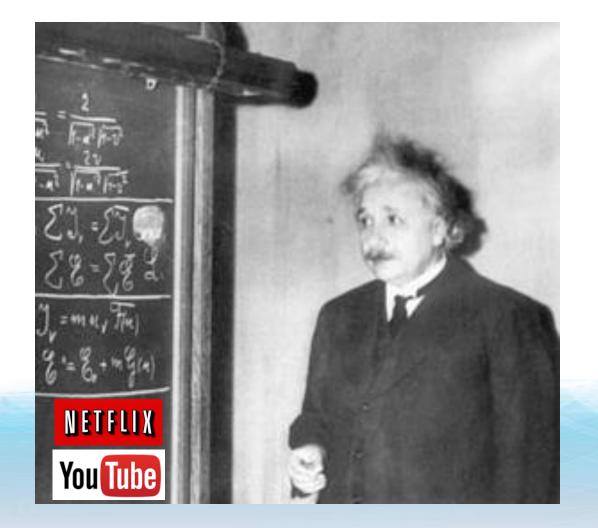
Capacity calculations

How many users? x How many devices per user? + How many other devices?

= Devices and their types

x Which applications are run on the devices?

= Total capacity required

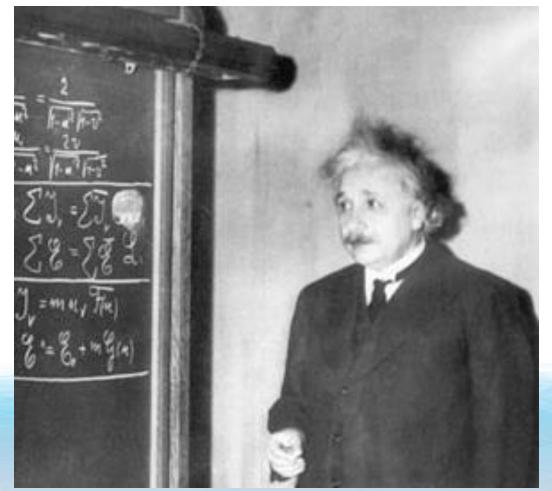






What else affects capacity?

- Areas to cover
- Types of end user devices
- Types of access points
- Channels/bands used
- Single (multiple floors
- Wall materials



elektronické měřicí přístroje

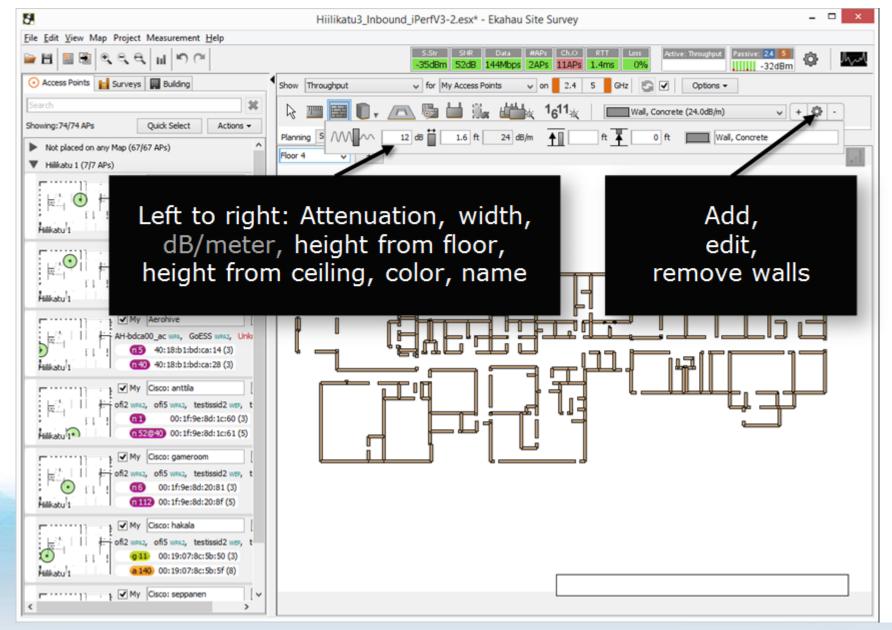
Ekahau Site Survey 8.x

Wall Material Editor

Wall Outlining Wizard (WOW) - No More Wall Drawing CAD floor plan (DXF or DWG)

Throughput Site Surveys

Second computer required in the network to act as the throughput server (iPerf v3)







Cloud Storage



Tablet or Laptop Based application









Up C

Up to 30 Clients Master Controller 

Survey

• Survey the entire house.

• Listening for:

- Other Wi-Fi
- Congestion

Optimal Channel

• Least

- congestion
- Best overall coverage

AP Optimal Location

- Considers
- All clients
 - Interference
 - Congestion

Quality Of Experience

- Weighted Function of:
- Congestion
- Interference
- Signal
- Applications

Report

- Data gathered
- Channel chosen
- AP Location
- PDF
- Store locally and to Cloud





- Through the building
- To multiple sites
- Signal to Noise Ratio (SNR)
- Interference
- Congestion



