ekahau
WIRELESS DESIGN

Ekahau Private 5G

Design professional 5G, 4G, and LTE private cellular networks with the speed and accuracy of Ekahau wireless design tools.

Awesome Private Cellular is Now Easy

Ekahau Private 5G simplifies the design process, removing time-consuming and tedious floor plan preparation and automating radio placements for consistently great private cellular performance. Leverage the speed and accuracy of Ekahau to get the optimal radio and antenna placements for your unique needs.

Automatic Wall Detection

Import any standard floor plan image file (Bitmap format: gif, jpeg, png) and let automatic wall detection identify the shape and placement of wall segments for you. Say goodbye to hours of time-consuming and tedious floor plan preparation and simply import a floor plan image, review the auto-detected wall segments, assign accurate wall materials, and get going with your design.
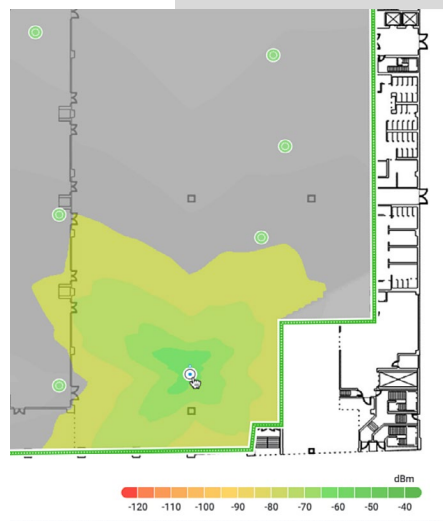
AI-Assisted Planning

The new AI-assisted planner gives you the choice to place all radios in a configuration optimized for your requirements or hand-select a few locations and let the AI help fill in the gaps. Recommendations are calculated and adjusted as radios are placed, allowing you to finely tune your network while incorporating known locations for things like accessible cable drops and hardware mounts in warehouses.

Expand your Wireless World

Bring your expertise in Wi-Fi design to the emerging field of Private Cellular to plan private 5G, 4G, LTE and hybrid wireless networks. Add Ekahau Private 5G (Beta) to your Ekahau Connect suite and design Wi-Fi, Private Cellular and hybrid wireless networks.

Key Features

- Network planning for 4G/5G private networks
- Heatmap library for cellular network analysis
- Automatic wall detection
- Automatic coverage planning
- Automatic real-time project saving
- Material libraries
- Multi-area support for coverage areas and requirements
- Site management with multiple workspaces
- On-request updates to radio unit libraries

Ekahau Private 5G with AI-Assisted Planner

dBm
-120 -110 -100 -90 -80 -70 -60 -50 -40

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4G/5G Private Network Design

- Support for network planning on LTE, 4G and 5G bands
- CBRS network planning capability
- Supported bands for Cellular 4G
  - + 38 (2570 – 2620MHz)
  - + 40 (2300 – 2400MHz)
  - + 41 (2496 – 2690MHz)
  - + 43 (3600 – 3800MHz)
  - + 48 (3550 – 3700MHz)
- Supported bands for Cellular 5G
  - + n38 (2570 – 2620MHz)
  - + n40 (2300 – 2400MHz)
  - + n48 (3550 – 3700MHz)
  - + n77 (3300 – 4200MHz)
  - + n78 (3300 – 3800MHz)
  - + n79 (4400 – 5000MHz)
  - + n102 (5925 – 6425MHz)
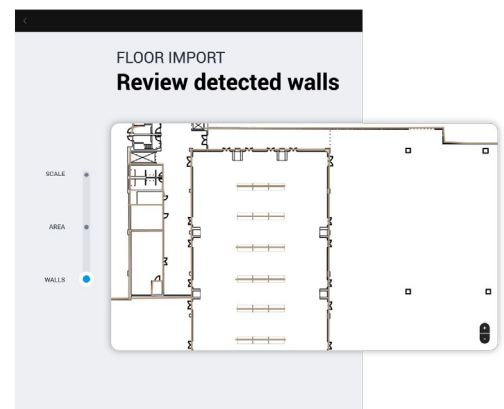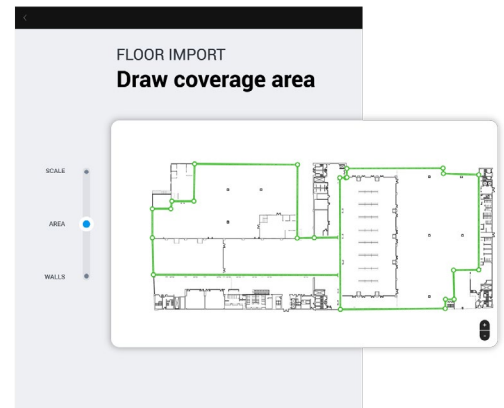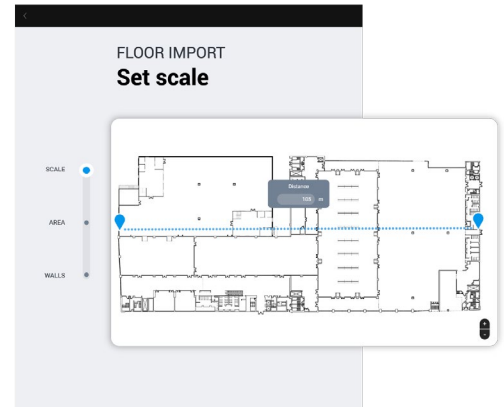 - + n104 (6425 – 7125MHz)

Supported Heatmaps

- RSRP
- Dominance (RSRP)
- RSRP (2nd strongest)
- RSRQ
- Data rate (DL max.)
- Data rate (UL max.)
- Throughput (DL max.)
- Throughput (UL max.)
- Transmit power (UL)
- SINR (DL worst case)
- SINR (UL best case)

Supported properties

- Internal and external antennas
- Omni and directional antennas
- Mounting options
- Height
- Rotation and tilt
- Transmission power
- Carrier aggregation
- Bandwidth
- Frequency range/Channels
- TDD configuration
- Multiplexing per user (DL)
- Multiplexing per user (UL)
- Max. DL modulation
- Max. UL modulation
- Noise figure
- Subcarrier width
- UL Power control (P0)
- UL Power control (alpha)

System Requirements

- Supported Browsers (latest version recommended):
  - + Chrome, Firefox, Edge, Safari (limited support)
- Hardware requirements
  - + Processor: 1.5+GHz, multi-core recommended
  - + Memory: 4+ GB RAM, 8GB RAM recommended, 16GB+ RAM recommended for very large projects
- Supported Files:
  - + Bitmap: GIF/JPEG/PNG

FLOOR IMPORT
Set scale

FLOOR IMPORT
Draw coverage area

FLOOR IMPORT
Review detected walls

Follow the step-by-step network planner and get up and running in minutes.

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