ekahau

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Ekahau AI Pro

Powerful Wi-Fi planning and AI design for the most reliable, best-performing 2.4/5/6 GHz wireless networks. Design, analyze, optimize and troubleshoot enterprise Wi-Fi networks.



The Most Trusted Solution for Business-Critical Wi-Fi Design

Ekahau AI Pro is the Wi-Fi design software of choice for IT professionals who are leading business-critical Wi-Fi design and deployment projects. Create powerful AI-assisted predictive wireless network designs for perfect AP placements, simulate network upgrades against real-world environments, inspect collected and live survey data, and generate custom reports detailing the performance health of your network.

Featuring a robust database of thousands of wireless access point and antenna patterns, Ekahau AI Pro is the tool of choice for designing wireless networks for all Wi-Fi standards, including Wi-Fi 6 (802.11ax), Wi-Fi 6E (802.11ax in 6GHz), Wi-Fi 7 (802.11be), and 802.11a/b/g/n/ac.

Support your next gen business applications with the unprecedented speed and reliability of your Ekahau-perfected 6 GHz network design.

Create Fast and Reliable Networks with Powerful AI Tools and Expert-level Customization Options

AI Pro takes your business requirements for Wi-Fi connectivity and identifies the ideal wireless access point placements for your Wi-Fi network. Ekahau AI Auto-Planner runs tens of thousands of iterations against your specific wall materials and floor plan to find the optimal positions for your AP placements. Generate a multi-floor Wi-Fi network design that will effortlessly exceed your design requirements while minimizing channel interference in mere seconds.

Design Your Wireless World in 6 GHz Today

Evaluate your options for 6 GHz with rip-and-replace and redesign simulations tuned to your exact network requirements and environment. Use the automatic Channel Planner and Network Simulator to show recommended improvements to your current network design or start a redesign with the all-new AI Auto-Planner and discover your network's optimal AP placements and configuration.

Key Features

- 6 GHz Design Support (Wi-Fi 6E and Wi-Fi 7)
- AI Auto-Planner
- 4500+ Access Points and Antennas
- Integrated with Ekahau Optimizer
- Intuitive Workspaces
- Automatic Channel Planner
- Network Simulator
- Automatic Wall Calibration
- CAD Import
- Advanced Reflections and Diffractions
- 26 Heatmap Visualizations
- Template-Based Reporting
- AP Manufacturer Integrations
- Optimized for Ekahau Sidekick 2

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AI Auto-Planner

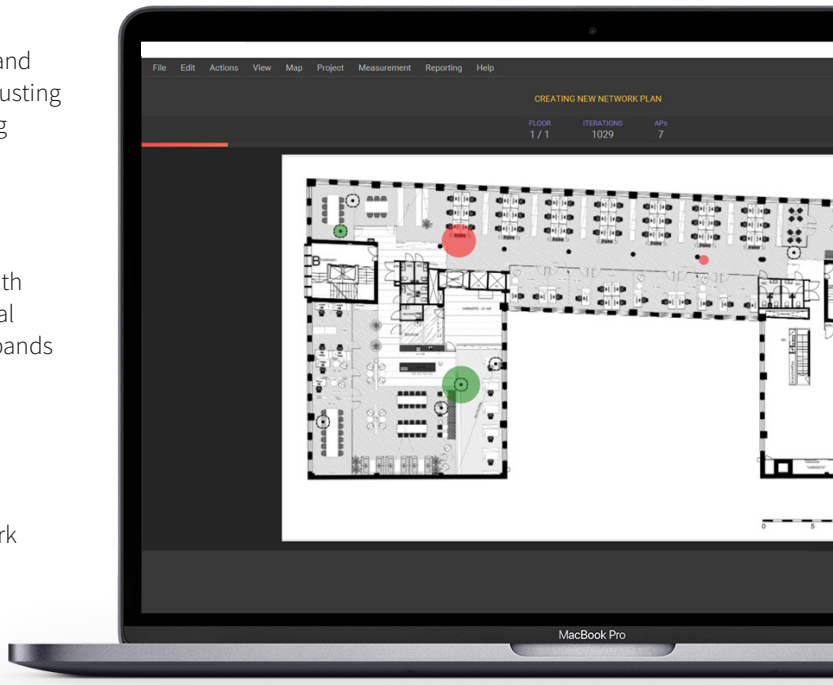
Create your AI-optimized network design in seconds as thousands of iterative optimizations automate the tedious task of manually placing and configuring your APs. Use the AI-generated design as-is or continue adjusting it to fit your specific installation needs. Perfect for new users just getting started and veteran Wi-Fi design pros alike.

Channel Planner

Determine the absolute best channel configuration for your network with an automatic channel optimization algorithm that utilizes the real signal patterns of your APs to minimize channel interference across all three bands (2.4 GHz, 5 GHz, and 6 GHz).

Network Simulator

Test channel configuration changes for instant improvements on your network today or run rip-and-replace scenarios to see how your network would perform with different AP models. Network Simulator is perfect for visualizing the impact of 6 GHz on your network and ensuring your Wi-Fi 6E investment is set up for immediate success.





Intuitive Workspace Interface in Dark or Light Mode

Use the intuitive workspaces to seamlessly move between Design, Inspect, Survey and Live modes. The tools and panels change to display the most helpful information for the task at hand, and the ability to switch between light and dark mode color scheme adds additional customizability to your workspace.

Automatic Wall Attenuation Calibration

Improve design accuracy and eliminate hidden wall attenuation anomalies with automatic wall calibration. Use your measured survey data from your Ekahau Sidekick 2 to highlight wall inconsistencies in your design and click-to-accept recommended changes for better, more accurate designs.

Advanced Reflections and Diffractions

Enable maximum accuracy settings and account for not only the signal attenuation of wall materials but also the reflection and diffraction properties of those materials as well.

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Wireless Network Design

- Expert AI-driven access point placement and network optimization
- Automated wall detection from CAD floor plans
- Coverage and capacity requirements with custom or predefined best practice inputs
- Set multiple requirement areas within the same floor
- 22 predefined wall types or add your own custom wall types

Predictive Design Support for the Latest Wi-Fi Standards and All Wi-Fi Vendors

- Supports legacy and modern Wi-Fi standards, including Wi-Fi 6 (802.11ax), Wi-Fi 6E (802.11ax in 6GHz), Wi-Fi 7 (802.11be), and 802.11a/b/g/n/ac
- Simulated tri-band visualizations for 2.4 GHz, 5 GHz and 6 GHz radios
- Includes 4500+ Wi-Fi access points and antennas from all vendors

AP Vendor Dashboard Integrations

- Cisco Catalyst (formerly DNA Center)
- Meraki Dashboard
- Aruba Central
- ExtremeCloud IQ Dashboard
- Juniper Mist Dashboard

Site Surveys

- Passive and active surveys
- Throughput (iPerf) surveys
- Spectrum surveys*
- Add and review image and text notes

Inspect & Troubleshoot

- Inspect collected and simulated data with 26 heatmap visualization
- Real Time Frequency Monitoring
- All-in-one troubleshooter:
  - + Passive Wi-Fi measurements
  - + Active Wi-Fi tests
  - + Spectrum analysis*
- Display access point and channel configurations to reveal common interference issues
- Identify coverage issues, interference problems, Wi-Fi equipment failures, misconfigurations, roaming problems, and more
- Capacity troubleshooting
- VoIP, video, RTLS: Wi-Fi issues per application

Analysis / Reports

- Clear visualizations:
  - + Signal strength, SNR
  - + Secondary & tertiary coverage
  - + Noise / Interference
  - + Channel interference
  - + Data rate, overlap
  - + Roaming, RTT, packet loss
  - + Network health analysis
  - + Capacity analysis
  - + Spectrum channel power / utilization
- Locate access points with visual pings
- Locate non-Wi-Fi interfering devices
- Generate easy-to-interpret reports for your entire Wi-Fi project with a single click or create fully customized template-based reports

Use with Ekahau Sidekick 2 & the Connect Suite

- Provide fast and accurate on-site surveys as well as simultaneous spectrum analysis
- Easy-to-use mobile apps for surveying and analyzing network health
- Automatic interference detection is used to identify and locate the exact source causing Wi-Fi problems
- Wi-Fi performance analytics with browser-based heatmap view and guest sharing

System Requirements

- Supported Operating Systems:
  - + Windows 11 (64bit)
  - + Windows 10 (64bit)
  - + macOS 11 (minimum)
  - + Processor: 1.5+GHz, multi-core recommended
  - + 8GB RAM, 16GB+ RAM recommended
  - + Hard disk space: 1GB required
- Supported Files:
  - + CAD: DWG/DXF
  - + PDF
  - + Vector: SVG
  - + Bitmap: BMP/GIF/JPEG/PNG
- * Some features require Sidekick 2 spectrum analyzer

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