ekahau

Ekahau AI Pro Online

Use the power and accuracy of the Sidekick 2 to create an AI environment based on collected survey data or use your floor plans as a starting point to create network plans from scratch. Whatever your approach, you can take full advantage of powerful AI tools to optimize Wi-Fi configurations throughout the lifecycle of your network.

Create Wi-Fi network upgrade plans with ease

If you have a survey file made with Sidekick 2 and access to AI Pro Online, you do not need to worry about spending any time drawing walls or obstacles when designing network upgrades. Simply import the survey project file to AI Pro Online, and our advanced AI will generate a signal propagation environment based on super-accurate Sidekick 2 data. Simulate changes to your network, like moving, adding, or configuring access points, and immediately see the impact on your network performance.

Create a new network design

With AI Pro Online, creating a new network design is super easy. Just import a survey project file with Sidekick 2 data to AI Pro Online, remove any existing APs from the plan, and start a new network design from scratch. Our AI environment will handle the complexity of simulating the signal propagation in your physical space based on measured data, leaving you free to focus on your next generation design improvements.

For traditional predictive designs or designing networks without survey data, just import your floor plans and let our auto wall detection feature help expedite the wall drawing for you. Then just define requirement areas and place APs to simulate the performance of your network as you normally would.

Simulate technology upgrade (Rip-and-Replace)

Simulating rip-and-replace cases is extremely easy. Just import a survey project with SK2 data to AI Pro Online, select any APs that you would like to replace, and choose a suitable model from our extensive access point library. It's a great way to visualize the impact new tri-band (2.4 + 5 + 6 GHz) model APs will have on your network before investing in costly hardware or running any new cables.

Key Features

- Wi-Fi planning for 2.4GHz, 5GHz and 6GHz networks based on Sidekick 2 survey data or imported floor plans
- Unique AI environment generation logic that creates a digital representation of your physical space so no other physical environment definition is required (no wall drawing or attenuation object drawing)
- Functions that allow for completely automatic network planning and optimization
- Identify coverage, secondary coverage, or channel interference issues with fast and accurate heatmaps
- Wi-Fi network upgrade design based on survey data
- Automatic wall detection and floor alignment
- Rip-and-replace simulations based on survey data
- Extensive AP library and antenna pattern representation in 3D
- Reset moved or removed measured access points and experiment with different network improvement options
- Recommended and custom network requirement settings that can be defined on a requirement area basis
- Easy-to-read requirement pass rate indicators for fast analysis of the design
- One-click reporting for sharing and distributing created network plans

Utilize powerful AI tools at your fingertips

AI Pro Online includes several powerful tools to speed up your network design process. These tools include the **AI Auto-Planner**, which can automatically place and configure your access points, **automatic channel configuration** for each radio of your APs, which will automatically find an optimal channel plan for your radios, as well as **Assisted planning**, which will highlight optimal AP placement positions to resolve any coverage issues. If you are starting your network design by importing floor plans, you can greatly speed up your design process with **automatic wall detection**, **automatic area detection**, and **automatic floor alignment**.

Main Tools and Functions

- Import Ekahau cloud projects with survey data from Sidekick 2
- Select and move APs and requirement area points
- Define network requirement areas or exclusion areas
- Select from a set of recommended requirements or create custom network requirements
- Define and place AP models from a wide Ekahau AP library
- Automatic wall detection
- Automatic area detection
- Automatic floor alignment
- Automatic channel planning option
- Assisted planning option for indicating optimal AP locations
- AI Auto-Planner for complete automation of AP placement and configurations
- Reset moved or removed measured APs
- Requirement pass rate display for each floor
- Heatmap selection for network analysis
- 3D antenna pattern overview
- One-click report generation
- User settings for measure units and UI theme selection
- Project settings for regulatory domain selection and network parameters

AI environment

- The AI environment in AI Pro Online refers to an automatically generated signal propagation model that is based on Ekahau's proprietary machine learning algorithm, that utilizes Sidekick 2 measurement data along with floor plan information in the survey project. The AI environment removes the need to separately define any walls, attenuation objects, or other environmental properties and provides a basis to simulate any changes to the network design or create a completely new network design.

Heatmaps

- Signal strength
- Secondary signal strength
- Signal-to-Noise Ratio (SNR)
- Channel interference
- Dominant AP

Access Point Configuration Changes

- Mounting and orientation
- Channel configuration
- TX power levels
- Radios on/off
- Bandwidth selection
- Antenna selection
- Network/band selection

User settings

- Measure unit selection (mW/dBm, meters/feet)
- UI theme selection (dark/light)

Project settings

- Regulatory domain selection
- Network configurations for allowed channel ranges per band
- Report creation for the selected project

Project format

- AI Pro Online utilizes a new project format that is created based on traditional Ekahau project files with measured data. The new project file is created when the user imports a survey project file from Ekahau Cloud to AI Pro Online or starts a new project within the application.

Integrations

- AI Pro Online is integrated into Ekahau Cloud

System & Solution Requirements

- Recommended browsers are Chrome or Edge
- Ekahau Sidekick 2 is required for AI environment generation
- Ekahau Connect Subscription and valid AI Pro license
- Processor: 1.5+GHz, multi-core recommended
- Minimum 8GB RAM, 16GB+ RAM recommended

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