

How to Upgrade to 6 GHz Wi-Fi with Ekahau

- Plan Your 6 GHz Upgrade with Confidence
- Unlock the Potential of Wi-Fi 6E or Wi-Fi 7
- Validate and Optimize Your 6 GHz Network



Revolutionize Your Network with Wi-Fi 6E or Wi-Fi 7

Upgrading to 6 GHz Wi-Fi empowers network owners to transform their wireless infrastructure. This leap in technology offers vast spectrum expansion, increased channel availability, and superior performance. With 6 GHz, businesses can confidently support the ever-increasing demands of modern applications, devices, and user expectations. Ekahau’s advanced planning software and precision measurement tools ensure that organizations can design, deploy, and optimize their 6 GHz networks with accuracy and efficiency, maximizing the benefits of this revolutionary wireless technology.

Unleash the Power of New Spectrum

The 6 GHz band provides 1.2 GHz (US) or 500 MHz (EU) of additional spectrum, free from interference and congestion often found in the 2.4 and 5 GHz bands.

Maximize Efficiency with Increased Channels

Utilize up to 59 non-overlapping channels for reduced contention, or bond channels together for improved performance.

Elevate Your Network’s Performance and Security

Support more devices and power bandwidth-intensive applications with improved performance, lower latency, and strong encryption.

Embrace the Future of Wi-Fi

Upgrading to 6 GHz Wi-Fi is not just about solving today’s challenges; it’s about preparing your network for emerging technologies and evolving user demands.

Simplify Your 6 GHz Upgrade Path with Ekahau Wi-Fi Tools

Ekahau Sidekick 2

Measure Your Existing Network Performance

A simple walk with the Sidekick 2 allows you to easily collect precise Wi-Fi data, providing comprehensive visibility into your wireless network’s performance and security.



Ekahau AI Pro Online

Instantly Visualize 6 GHz Access Point Upgrades

Transform your survey data into an accurate RF model with AI-powered simulations. Visualize the impact of new 6 GHz access points without physical installation, ensuring optimal placement and performance.



Why You Should Upgrade to 6 GHz Wi-Fi

Overcome Common Connectivity Issues

If your current Wi-Fi infrastructure struggles during peak usage, upgrading to Wi-Fi 6E or Wi-Fi 7 can transform your network performance. Experience reliable, high-speed connectivity in even the densest of wireless environments, ensuring seamless operation of critical applications.

Future-Proof Networks for Emerging Technologies

6 GHz Wi-Fi prepares your organization for tomorrow's network capacity demands: with abundant bandwidth and low latency, you're ready for future innovations. Support multiple high-quality video calls and HD streaming today, and the AR/VR experiences of tomorrow.

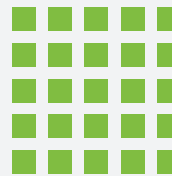
Number of Non-Overlapping Channels By Frequency Band

More non-overlapping channels enhance network performance, boost concurrent connection capacity, reduce congestion in dense areas, and improve wireless reliability. This benefits newer 6 GHz devices directly and indirectly aids legacy 2.4/5 GHz devices by alleviating competition on older bands, ultimately contributing to a more efficient and responsive wireless ecosystem.



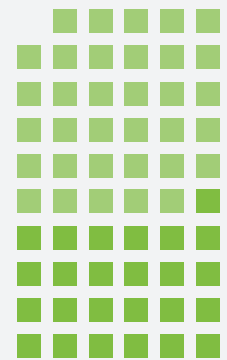
2.4 GHz

3 non-overlapping channels



5 GHz

25 non-overlapping channels



6 GHz

59 (US) or 25 (EU) non-overlapping channels

Unrivaled Wi-Fi Intelligence from Survey to 6 GHz Validation

Ekahau Sidekick 2 is the world's fastest, most accurate, and easiest-to-use Wi-Fi testing and measurement device, identifying Wi-Fi signal strength at every point of your network, measuring network performance, and detecting environmental RF that may negatively impact your network.

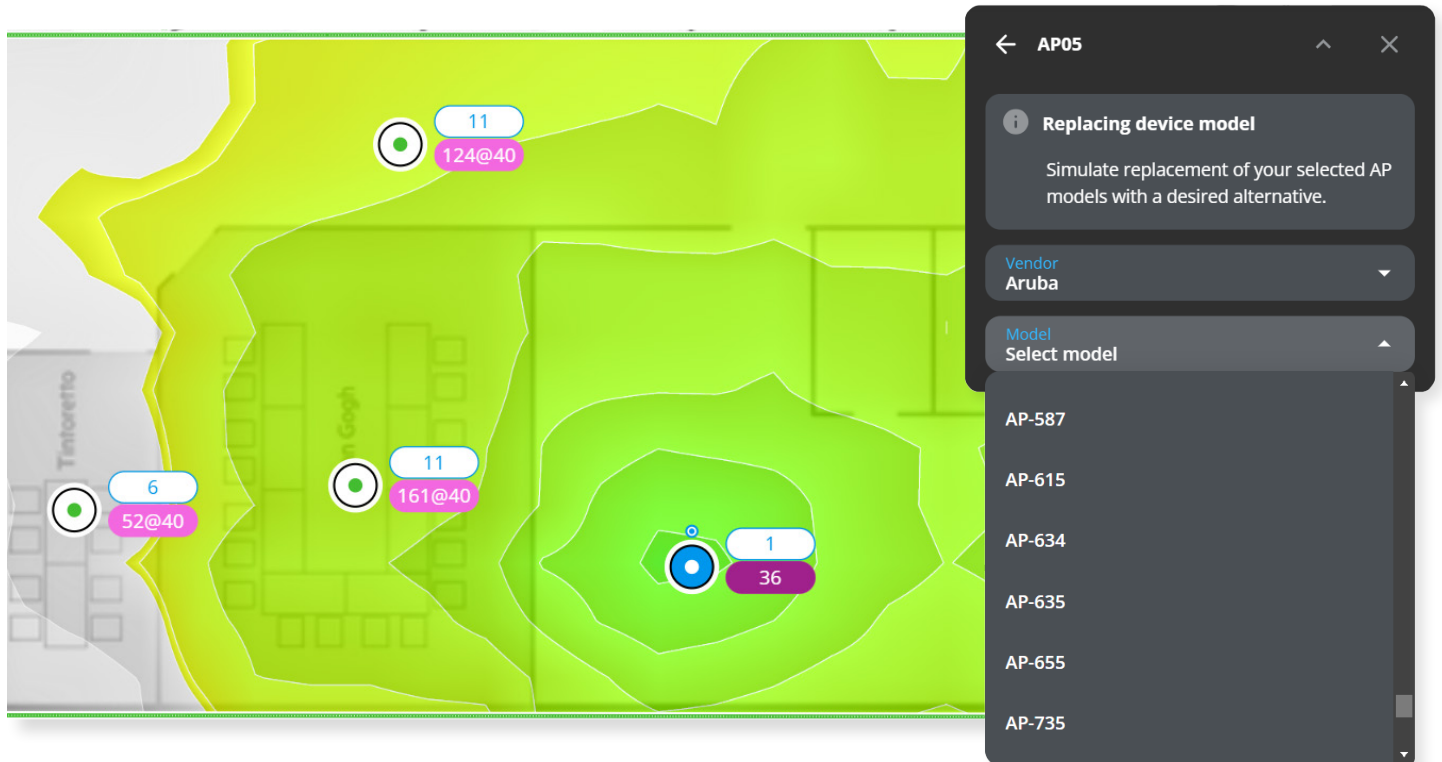
No floor plan? No problem! Our newest Just Go Survey mode leverages augmented reality technology in the Apple ARKit and LiDAR scanning to dynamically create a floor plan as you walk through your environment.

After deploying your new 6 GHz network, use Sidekick 2 again to **validate your new network's performance**, ensuring it meets design specifications and delivers the expected improvements.



Intelligent Redesign Made Easy

With Ekahau AI Pro Online, you can evaluate whether a simple rip-and-replace of your existing access points is sufficient or if additional changes, such as modifying access point locations, are required to optimize your 6 GHz network. The tool's advanced simulation capabilities enable you to test various scenarios and make informed decisions about your upgrade strategy, ensuring the best possible performance and user experience.



The Most Accurate Model of Your Wi-Fi Network

Ekahau AI Pro Online's AI machine learning signal propagation model uses Sidekick 2 measurements, incorporating real-world attenuation from walls, desks, shelves, and other signal-impacting materials. This eliminates reliance on attenuation estimates and manual wall drawing, ensuring quick and accurate Wi-Fi design every time.

Visualize Rip-And-Replace Scenarios With the Latest 6 GHz AP Models

Ekahau AI Pro Online lets you test out the latest 6 GHz access points in your environment and visualize network performance, making it easy to quantify the benefits of upgrading to the latest AP models and make informed decisions about your Wi-Fi infrastructure upgrades.

See the Impact of Adding or Adjusting APs in Real-Time

As you add or move APs on your virtual floorplan, Ekahau AI Pro Online immediately recalculates the coverage and performance metrics, providing instant feedback on the effectiveness of your changes, without the need for physical installation or on-site testing.

Design New Wi-Fi 6E or Wi-Fi 7 Networks

Detect Walls and Areas from Floor Plans

Import any common file type — from PDFs and CAD files to JPEGs and PNGs — and let AI automate the tedious parts: detecting walls, aligning floors, and identifying coverage areas.

Define Network Performance Needs

Choose from preset profiles from basic connectivity to high-performance, or create custom requirements by defining your unique needs for signal strength, channel interference, signal-to-noise ratio, and more.

Determine Ideal Access Point Placement

With AI-powered Assisted Planning, you can select from top 6 GHz access point models and calculate in real-time the optimal positions based on your requirements and configurations.

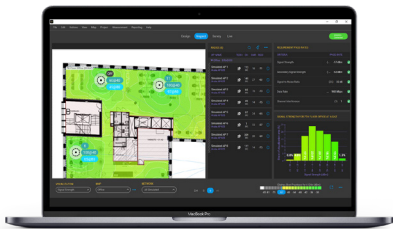


Ekahau Product Suite

Everything you need to create a high-performing 6 GHz network

SOFTWARE

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.

One-time investment in software.
Ekahau Connect Subscription required.

HARDWARE

Sidekick 2



The fastest, most precise Wi-Fi testing and measurement device, supercharged and tuned for 2.4/5/6 GHz. Walk to collect measured data to validate & optimize any wireless network.

One-time investment in software.
Ekahau Connect Subscription required.

SUBSCRIPTION

Connect Subscription



- Optimizer Step-by-Step Configuration Guides
- Survey Mobile App Wi-Fi Health Validation
- Analyzer Mobile App Live Troubleshooting
- Insights Wi-Fi Performance Analytics
- Packet Capture
- Cloud Project Sync with Guest Sharing
- Software & Firmware Updates
- Latest AP Models & Dashboard Integrations
- Global Customer Support

Annual software maintenance and support.
Sidekick 2 required to use all features.

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