ekahau

Site Survey

Wi-Fi Planning, Verification, Troubleshooting

For wireless professionals, IT managers, and administrators, Ekahau Site Survey™ (ESS) is an easy-to-use design, verification and troubleshooting tool for any Wi-Fi network. ESS™ is a visual, software-based tool that runs on a laptop computer equipped with a supported Wi-Fi adapter.

Ekahau Site Survey ensures high performance and capacity (BYOD) for any Wi-Fi network that is used for VoIP, video, location tracking, or high-speed data. If you don't have a Wi-Fi network yet, ESS™ will automatically suggest access point placement and optimal configurations. If you already have a Wi-Fi network in place, ESS™ allows quick and easy site surveys, performance and capacity analysis, optimization, and troubleshooting.

Auto-Planner Creates the Optimal Wi-Fi Network in 3D

ESS™ automatically creates a multi-floor Wi-Fi network plan for you, based on your performance and capacity requirements. Within seconds, ESS™ will tell you the optimal number of access points, the best locations for the APs, and performance-maximizing channel plan even for wider 802.11ac channel bandwidths. You will also see how the Wi-Fi network will perform before going on-site. The 3D planning uses signal leakage between floors to your benefit while minimizing the inter-floor channel interference. The network plan can be imported to Cisco Prime NCS/WCS.

Hybrid Site Surveys: Verify Coverage and Performance

During a single, quick walk-through, ESS™ makes passive and active tests. In other words, ESS™ simultaneously measures and maps Wi-Fi airspace and end-to-end connectivity. This means getting more on-site work done in a shorter time. During the survey, ESS™ also discovers all the audible Access Points and automatically locates them.

Analyze and Report

ESS™ makes in-depth network analysis easy with accurate, color-coded heat maps. Signal strength, data rate, packet loss, roaming, overlap, and various other characteristics are available. When it comes to Wi-Fi, each network has its own particular performance and capacity requirements. ESS™ includes several pre-defined performance requirements to optimize for VoIP, video, web browsing, high-speed connectivity and location tracking. You can also define your own detailed capacity requirements

Available in Ekahau Site Survey Professional Edition
*** Spectrum Analyzer sold separately*
*** Passive 802.11ac surveys require fully supported network adapter such as Ekahau NIC-300-USB*

Features

Network Planning
- 802.11ac 3D planning, as well as 802.11a/b/g/n*
- Automated AP placement and channel optimization*
- Visualize simulated coverage / performance*
- Hundreds of 3D access points and antennas
- Fully integrates with Cisco Prime NCS/WCS

Site Surveys
- Hybrid Wi-Fi surveys: Simultaneous 802.11ac*** passive and active surveys
- GPS outdoor surveys*

Analysis / Reports
- Clear Visualizations:
  – Signal Strength, SNR
  – Noise / Interference
  – Data Rate, Overlap
  – Roaming, RTT, Packet Loss
  – Network Health Analysis
  – Capacity (BYOD) Analysis
- Locate access points
- View Channel range and overlap
- Spectrum Analysis**
- Customizable reports*

Troubleshooting
- On-the-spot Map-based
- Find Wi-Fi issues:
  – Rogue APs, Broken APs
  – Misconfgured SSIDs
  – Misconfgured primary channels
  – Missing security configs
  – Packet loss, high latency
  – Excessive interference

RTLS Deployment
- RTLS calibration
- Accuracy analysis
- Track laptop or Wi-Fi tag

to ensure your network plan or existing network meets todays increasing BYOD challenges. All of the findings, including access point and site information, can be automatically compiled into comprehensive reports.

Optimize, Troubleshoot, Simulate

Many network problems can't be detected even by the smartest of Wi-Fi controllers. With ESS™ you will spot these unseen problems; fix broken or misconfigured access points, find undetected rogue access points, detect missing SSIDs and security settings, identify and minimize signal leakage, and discover coverage holes. Advanced simulation capabilities allow you to create what-if-scenarios, such as moving or replacing access points, increasing network load, or changing the channel and channel range. You can even simulate the network performance from several different network client's point-of-view.

ESS™ provides two main methods for troubleshooting: On-the-spot troubleshooting, where the network is tested and analyzed in real time, and post-survey troubleshooting, where ESS shows on a map, what problems were detected and where. Both take advantage of the Hybrid Survey technology.

The optional Ekahau Spectrum Analyzer allows you to detect and analyze the impact of non-Wi-Fi interference sources. These include microwave ovens, cordless phones, wireless video cameras and motion detectors.

Full Integration with Ekahau RTLS

Your Wi-Fi network can also be used to accurately track assets and people using the real time location system (RTLS) from Ekahau (sold separately). ESS™ fully integrates with Ekahau RTLS to minimize deployment time and cost. The site survey data is used to calibrate the location system - no separate calibration is needed.

The Bottom Line

Whether you already have an existing Wi-Fi network or are about to build one, with Ekahau Site Survey, you will quickly be on your way to Wi-Fi that truly works. By choosing ESS™, you're not alone: 10,000 customers, including virtually all Wi-Fi infrastructure vendors, are using ESS™.

More information, videos, and images available at: **ekahau.com/ess**

Free 14-Day Trial available at: **ekahau.com/try-ess**

Ready to buy or need for more info: **ekahau.com/buy-ess**

Recommended Extras

Ekahau Spectrum Analyzer

NIC-300-USB Wi-Fi Adapter

System Requirements

OS: Windows 7 or 8 (64 and 32bit), **Vista** (64 and 32bit), XP (32bit)
Processor: 1.5GHz or faster
RAM: 2GB (4+GB recommended)
Wi-Fi Adapter: Ekahau NIC-300 recommended. Complete list at www.ekahau.com/devices

Floor plan of the facility
- Vector/CAD (DWG/DXF/SVG)
- Bitmap (bmp/gif/jpeg/png)

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