

Wi-Fi 6 / 802.11ax: FAQs

QUICK HIGHLIGHTS

Hardware: Ekahau Sidekick® fully supports Wi-Fi 6 / 802.11ax site surveys.

Software: Starting with Ekahau Pro version 10 (planned release April 2019), Ekahau software fully supports planning, surveying and optimizing Wi-Fi 6/802.11ax networks. The update to Pro 10 is free of charge to all Ekahau Site Survey Pro customers who have a valid support contract.

WHAT IS IT?

802.11ax – is also called High-Efficiency Wireless (HEW) or Wi-Fi 6

Key Features:

- Backwards compatible with 802.11a/b/g/n/ac
- Applies to both 2.4 GHz and 5 GHz
- Increases 4X the average throughput per user in high-density scenarios, such as train stations, airports and stadiums.
- Improves traffic flow and channel access
- Better power management for longer battery life

WHY IS IT IMPORTANT?

802.11ax is all about improving efficiency, with the goal to improve average throughput per user by a factor of at least 4X in dense user environments. This new standard focuses on implementing mechanisms to serve more users a consistent and reliable stream of data (average throughput) in the presence of many other users.

DO WE SUPPORT IT?

YES!

Hardware: All current survey hardware is capable of surveying 802.11ax networks, including Ekahau Sidekick® and Ekahau SA-1.

Software: Ekahau Pro 10 will introduce support for 802.11ax surveying and planning.

HOW DO OUR SOLUTIONS SUPPORT IT?

- Plan in 3D using 802.11ax APs from all major Wi-Fi vendors.
- Surveying and analyze 802.11ax networks, displaying PHY type, MCS rates, and number of spatial streams.
- Use the Ekahau Sidekick® to perform detailed spectrum analysis, with sub carrier level detail with a resolution bandwidth of 78.125 kHz.