

Wi-Fi Site Survey for Planning and Tuning Wireless LANs



Remote predictive modeling and onsite RF measurement and analysis for designing, validating, tuning, and troubleshooting Wi-Fi networks



Progent's **Wi-Fi Site Survey** services can help you plan, configure, tune, and troubleshoot a Wi-Fi network of any size and for any venue, offering a solution that delivers the coverage, performance, consistency, Quality of Service, security, and seamless roaming you require. Wi-Fi site survey services from Progent include remote predictive services for planning a Wi-Fi network and onsite survey services for validating, optimizing, and debugging an operational Wi-Fi network.

Progent's Wi-Fi experts are certified in the use of Ekahau's RF modeling and simulation software for designing your Wi-Fi deployment and Ekahau's spectrum analysis hardware for capturing Wi-Fi packets at your site to measure coverage and performance and to detect problems. Progent's consultants have experience integrating all major Wi-Fi access point (AP) products and with wireless controllers including legacy devices and newer 802.11ax Wi-Fi 6 appliances.

Progent's **predictive Wi-Fi design services** can be performed remotely and utilize RF modeling and analysis software to design an efficient wireless network. You provide Progent's Wi-Fi professionals with floor plans and a description of your facilities including walls, doors, cabling, elevator shafts, and building materials. You also specify your coverage, capacity, and performance requirements. Progent will use your input to build a mathematical model of your venue and develop a plan with the ideal model, quantity, and placement of APs plus their antenna type, preferred configuration, and predicted performance.

Progent's **on-premises Wi-Fi site survey services** utilize a specialized RF signal measurement device to help you validate, optimize, and debug an existing Wi-Fi infrastructure. This is commonly performed immediately after a new deployment or as a diagnostic tool to tune or troubleshoot a mature Wi-Fi LAN. Available throughout the U.S., Progent's on-premises Wi-Fi site survey services feature RF and security audits of your current Wi-Fi environment, testing for RF interference, detection of AP overpopulation, RF propagation modeling, plus confirmation of optimum quantity, location, and configuration for customer-specified Wi-Fi access points.

Deliverables for Progent's predictive and on-premises Wi-Fi site survey can include:

- **RF Spectrum Analysis** for Wi-Fi. This includes detection of RF issues related to your facility's physical structure as well as other possible sources of interference so you can anticipate and resolve problems during the WLAN design phase
- **RF Coverage Maps** in the form of color RF contour images, or heat maps, to help select the optimal number and location of APs and identify RF leakage areas and coverage gaps
- **Capacity Plan** for defining and delivering the speed and density needed to support all apps and users
- **Cable Paths** depicted as red line diagrams you can supply to cabling contractors
- **Device Installation** guidance on where and how to install wireless devices plus identification of special equipment that may be needed (NEMA enclosures, antennas, etc.)
- **Infrastructure Requirements** to specify all facility and networking resources needed to support the installation such as available switch ports, Power over Ethernet (POE), electrical power, and rack space

World-Class Network Infrastructure Expertise

Progent maintains one of the largest teams of Cisco-certified CCIE network engineers of any independent IT support firm in the U.S. and can help you integrate your WLAN seamlessly into your corporate network. Progent can help you configure and manage Cisco routers, switches, and security appliances as well as Cisco Mobility products including APs and wireless LAN controllers.

To help you with company-wide security and compliance issues, Progent offers the services of network security engineers who have earned advanced certifications from CISM, CISA, CISSP-ISSAP, GIAC, and CRISC. Progent's security specialists offer a broad range of online and on-premises services that include vulnerability audits, stealth penetration testing, and disaster recovery planning.

Find Out More About Progent's Wireless Site Survey Services

For more information, call **800-993-9400** or send email to information@progent.com

AVAILABLE SERVICES

- **Remote Predictive Modeling**
Simulation software provides a digital model of your facilities with an RF coverage (heat) map based on recommended AP placement and setup
- **Onsite Wi-Fi Survey**
Onsite measurement of Wi-Fi radio traffic for your current wireless LAN for validation, tuning, and troubleshooting
- **Floor Plan Analysis**
Detailed heat maps of your physical WLAN environment
- **Optimal WAP Placement**
Location of wireless access points to deliver the required coverage at the least cost
- **Management/User Interviews**
Gather stakeholder feedback to refine system parameters
- **RF Spectrum Analysis**
Uncover interference sources such as digital cameras or nearby WANs or caused by overpopulation of Wi-Fi APs
- **RF Coverage Maps**
Colored contour maps to show RF leakage or coverage gaps
- **Capacity Planning**
Estimate the WLAN bandwidth needed for your environment
- **BYOD Support**
Accommodation for various handheld devices including iPhones, iPads, Androids, Windows Phones
- **Device Installation**
Guidance on configuring and locating Wi-Fi APs and any special hardware required
- **Quality of Service Guidance**
Address QoS issues for VoIP, video conferencing, and other time-critical applications