



WLAN Site Surveys

The Benefits of a Site Survey:

- **Determines equipment requirements**
- **Ensures proper installation**
- **Maximize wireless traffic utilization**

PEAK Technologies is your single source for complete wireless integration solutions. As a certified Radio Frequency (RF) Professional Services Provider, PEAK is one of the nation's leading integrators of wireless solutions, with over two decades' experience in RF technology. PEAK oversees more than 850 customer engagements a year.

With guaranteed workmanship and certified wireless engineers, PEAK wireless integration capabilities are unparalleled in the industry. From project management to site surveys, security to integration, installation to training, PEAK is the only company you need for complete RF implementation. What's more, PEAK's experienced project management team orchestrates deployment, from small to large-scale rollouts, with unparalleled professionalism.

Are WLAN Site Surveys Necessary?

The ability to make sound business decisions is dependent on the speed and accuracy of the information that flows through today's wireless systems. If a system is not implemented correctly, it can cost companies money and lost

productivity. There are countless things in the physical environment that could impact the extent and quality of your wireless coverage, from walls and poles to metal and temperature. To ensure that employees have RF signal and data access all throughout the facility, system designers need detailed site information regarding coverage, equipment placement, power consideration and wiring requirements.

A wireless local area network (WLAN) site survey is a physical survey of the premises where the wireless network will be installed. It identifies the best locations for access point placement so the network can provide optimal wireless coverage and maximum performance within the desired area. During the survey, the wireless engineer will consider the many environmental factors that can disrupt coverage, such as building construction materials, types of products contained within the building, racking systems, freezers, and other RF devices already installed within the 4 walls.

The engineer will physically test the propagation frequencies and determine where to place the access points and what direction to point the antenna to maximize coverage and data rate throughput. If required, during the survey process, specifications are carefully developed for the required network layout and cabling.



PEAK's WLAN Site Survey Process

Prior to conducting a site survey, PEAK's Technical Resource Center staff works with the customer regarding scheduling, and verifies pre-site survey readiness. The PEAK wireless engineer will travel to your location and complete a detailed site survey to determine the placement and number of access points that are required and their optimal positioning to offer adequate RF propagation in the required RF coverage area.

All of the PEAK wireless engineers are trained and certified on the latest wireless technologies and use a best practices methodology.



WLAN Site Survey Reports

Upon the completion of the site survey, PEAK provides a written report. The reports includes information such as:

- Administrative details
- Survey equipment data
- Site survey results
- Surveyor's notes
- Suggested system equipment with specifications
- Customer supplied system components
- Equipment locations
- Network cabling information
- Technical support information
- Hardware support information
- Scheduling terms and conditions

Additionally, the site survey document will include a series of CAD drawings showing the coverage pattern for each radio transceiver on the day of the survey.

PEAK will guarantee the accuracy of the survey for 120 days from the survey date. Changes made to the environment or facility after the survey is performed may alter the survey accuracy.



PEAK's Proven Capabilities

PEAK's 20 years' wireless experience and resources combined with our long-standing relationships with wireless hardware vendors provide customers with seamless, sophisticated and reliable wireless integration. In fact, PEAK was the first organization to be certified in both Symbol Spectrum24[®] and Wireless Switch Implementation Services.

PEAK averages over 850 nationwide customer engagements annually. These include everything from Fortune 1000 companies with large warehouse and distribution centers to retailers looking to wirelessly-enable the entire store. Our depth of experience, expertise and focus on best practices minimizes potential risk associated with the delivery and deployment of a wireless system.

PEAK ensures that your wireless system is the most efficient and cost-effective solution for your organization's unique wireless networking and data collection requirements. PEAK's expertise in systems integration, software design, wireless networking and host interfacing enables us to anticipate and analyze your needs, and to develop and deploy tailored solutions to uniquely fulfill your objectives.



PEAK's Technical Certifications

- Symbol Certified Professional Services Provider, Wireless Switch & Spectrum 24[®], MSP
- Intermec Certified Professional Services Provider
- LXE Certified Professional Services Provider
- Cisco Wireless LAN Specialization Certification
- Zebra Authorized RFID Specialist
- Printronix Certified RFID Integrator
- Intermec RFID Authorized Partner
- Certified mySAP.com Software partner

PEAK's Staff Certifications

- System Engineers are Network (CCNA, CCDA, CCNP, CCDP) certified, Software (ODBA) certified and systems (MCSE) certified.
- Our consultants have experience in the following SAP Modules: SD, MM, WM, IM, PP, PM, FI, Oracle MSC and WMS
 - Project Managers are all PMP certified





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Other Wireless Services Offered By PEAK

Project Management

Project Management is a critical component to a successful, timely and properly budgeted system implementation. Our project managers are actively engaged throughout the implementation cycle, proactively identifying and addressing any issues. PEAK Project Managers are all manufacturer and PMP certified. Our project management approach includes intensive quality assurances via a standard, time-tested methodology and well-documented change control procedures.

Infrastructure Service

PEAK offers a comprehensive network cabling infrastructure service to provide our customers with a turnkey low-risk implementation. Utilizing a PEAK generated site survey or other professionally provided site survey, PEAK will determine what network cable infrastructure services are required and assemble a tailored quotation for each site.

Pilot

PEAK will coordinate a pilot prior to installing the RF hardware at the customer's site. The pilot involves test and integration of purchased hardware in a conference room environment. PEAK verifies the RF connection between Hand Held Terminals (HHT) and Access Point (AP), validate security functionality and proper wireless roaming.

WLAN System Installation

PEAK provides complete system installation services. From our thorough pre-installation checklist to our comprehensive implementation planning processes, PEAK ensures that the installation goes smoothly long before the physical installation begins.

Integration and Test

PEAK's Integration and Testing Services are part of our stringent quality assurance and control methodology. Each procedure is specifically designed to ensure the performance of the hardware and the completeness of the solution. Often called staging, this process involves product configuration, firmware level verification, burn-in and hardware testing at PEAK's I&T Lab.

Go-Live Support

To ensure that your system and staff are online and up-to-speed quickly, a PEAK engineer provides on-site Go-live support during your critical system start up. Any issue which may have eluded earlier controls are quickly identified and resolved.

The PEAK engineer also provides additional training and familiarization in the real-world environment.

Training

PEAK provides end-user, system administrator, and maintenance and support training customized to your environment. We offer a variety of customized courses, based on your specific needs, including one-on one, on-the-job, classroom, and train-the-trainer courses.

PEAK Service and Support

PEAK support doesn't end when your operation goes live. Our established, mission-critical support and onsite service are there when you need them, providing training, system onsite troubleshooting, RF telephone support and depot repair and printer onsite service contracts to address individual customer requirements.

PEAK Your Trusted Advisor

Trust, innovation and reliability are the hallmarks of PEAK's experience with implementation and deployment of wireless systems. When it comes to RF, trust PEAK to deliver stress-free wireless solutions.



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