anexinet

Wireless Site Survey

Maximize stability, reliability and performance to provide a solid foundation for mobile devices and mission-critical applications.

With an ever-growing need to remain connected on any device, in any location, at any time across all facets of your business, a poor wireless experience can lead to frustration, increased support tickets and a loss of both productivity and confidence in IT. An RF site survey is essential in order to deliver robust wireless capabilities, including aspects such as VoIP and real-time location services.

Choosing the Right Wireless Site Survey

Whether your organization is building a new wireless network or wants to ensure its existing infrastructure is fit for purpose, Anexinet will conduct a passive, active, and/or predictive survey, then design an RF network that delivers the coverage, data rates, network capacity, roaming capability and service quality required, while accounting for RF interference and optimizing access point locations.

A passive survey detects active access points, and measures signal strength and noise level by analyzing WLAN traffic.

Active surveys verify network performance by measuring round-trip time, throughput rates, packet loss, and retransmissions. Additionally, we analyze RF spectrum data to detect interference from non-802.11 sources (e.g. microwave ovens or cordless phones).

A predictive survey uses a simulated model of your RF environment (including modeled interference) to assess propagation and expected coverage via temporary and virtual access points or signal sources.

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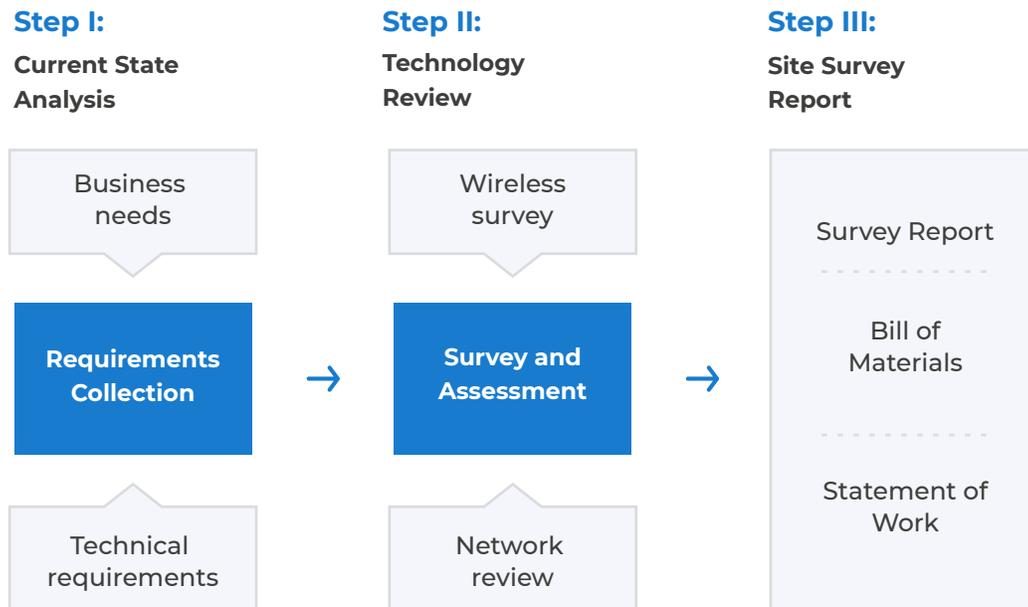
Wireless Site Survey Comparison Chart

✕ No | ◯ Optional | ✓ Yes

Feature/Benefit	Passive	Predictive	Active
Existing deployment HealthChecks	Yes	No	No
New deployment validation	Yes	No	No
New data-only environment	No	Yes	Optional
New environment (high-priority apps, voice/video, location tracking)	No	No	Yes
AP location accuracy	Yes	Optional	Yes
Performance guarantee	Yes	No	Yes
Good for carpeted office spaces	Yes	Yes	Yes
Good for challenging environments	Yes	No	Yes
Locates sources of interference	Yes	No	Yes
Rogue AP's	Yes	No	Yes
Background spectrum analysis	Optional	No	Optional

Survey Report	Passive	Predictive	Active
AP Signal Strength	Actual	Simulated	Actual
AP Signal to Noise Ratio	Actual	No	Actual
AP Locations	Accurate	Estimated	Accurate
AP Coverage Overlap	Accurate	Estimated	Accurate
Interference Map	Accurate	No	Accurate
Rogue AP Map	Accurate	No	Accurate
RF Spectrum Analysis	Optional	No	Optional
Remediation Recommendations	Yes	No	No
Design Recommendations	No	Yes	Yes
Hardware Bill of Materials	No	Yes	Yes
Remediation Services Estimate	Yes	No	No
Deployment Services Estimate	No	Yes	Yes

Our Process

Our proven approach yields a successful Wireless Site Survey, typically over a 4-week period:

Step I:
Current State Analysis

Step II:
Technology Review

Step III:
Site Survey Report

Business needs	Wireless survey	Survey Report
Requirements Collection →	**Survey and Assessment** →	Bill of Materials
Technical requirements	Network review	Statement of Work

Current State Analysis

We start by analyzing your organization's wireless network landscape to determine scope, identify key design parameters, and develop a thorough understanding of your objectives and challenges. Next, we conduct onsite surveys and review the specifics of your network during our facilities walk-through.

Technology Review

This step reviews the findings and potential issues identified in our predictive, active/design, and passive/post surveys, highlighting critical concerns ahead of deployment.

Site Survey Report

Here, we review our findings, discuss any issues, and describe how they impact your business goals along with any ongoing/future projects. Finally, we plan and design a wireless network that delivers the coverage, data rates, network capacity, roaming capability and quality of service required, while taking into consideration RF interference risks and the optimal access point locations.

What you'll get

Upon completion of this Wireless Site Survey you'll take away the following artifacts:

Wireless Site Survey Report

- Current State Analysis
- Heatmaps of RSSI/SNR/Interference
- Access Point (AP) Count & Location Layout
- Predictive Survey Findings
- Active/Design Survey Findings
- Passive/Post Survey Findings
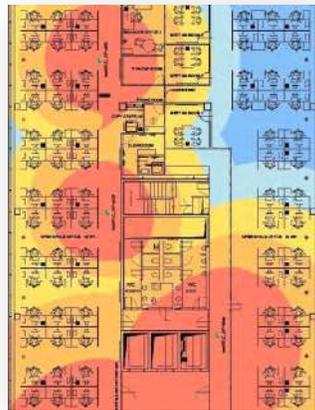- Potential Issues & Critical Concerns

Next-Step Recommendations

- Network Remediation Needs
- Wireless Network Plan & Design (including security)
- Bill of Materials
- Deployment SOW

AP Layouts

Wireless Heatmaps

Survey Reports

Ready to optimize your wireless network with a proven approach that guarantees success in about four weeks?

Reach Out to Anexient to Schedule Your Wireless Site Survey!

Get Started Now