



SiteScanner™

Validate WLAN Installations and Resolve Network Issues

Motorola SiteScanner rapidly measures indoor wireless networks to ascertain that critical wireless applications and infrastructure are effectively deployed and fully functional.



BENEFITS

Record live data for 802.11a/b/g/n networks

Quickly import building drawings, designs, raster images or raw CAD files

Visualize all Wi-Fi activity present in the deployment environment

Locate unauthorized or rogue access points (APs)

Utilize two measurement modes: Single Marker or Track Run

Isolate interference and noise

Analyze survey data per AP, per channel, per network or across networks

Depict real-world user experience

Determine actual channel width for the 802.11n standard

Maximize 11n potential in mixed technology networks

Easily export survey data to LANPlanner for optimization

Wireless networks carrying business critical data and applications need to be maintained and managed to ensure performance. WLAN managers can validate network performance and troubleshoot areas of concern with a periodic site survey. SiteScanner's map-based user interface allows network managers to quickly perform a site survey, run visualizations of the measured data and identify areas of the network where problems may occur or adjustments may be necessary. WLAN coverage can be verified, noise values evaluated, and the impact of neighboring networks minimized. Additionally, measurements taken in SiteScanner can be imported into Motorola's Wi-Fi predictive design software, LANPlanner®, allowing IT managers to incorporate live network data into designs for complete optimization. SiteScanner is the only site survey tool that supports this functionality. Whether used as part of a design process or as a survey tool, SiteScanner's validation and reporting features enable maximum wireless network performance, ensuring coverage and operational expectations.

Map-Based Interface for Ease and Speed

SiteScanner's map-based interface makes site surveys quick and painless. Simply import formatted drawings, raster images or raw CAD files using the import wizard. Users then identify their location within the map, and SiteScanner collects the network's vital statistics with clicks on the screen.

Total Network Visibility

SiteScanner auto-populates all visible access points and their MAC addresses. Visibility into all access points allows IT managers to identify rogue APs and wireless equipment from neighboring offices that may impact the user experience in their deployment environment.

Real-Time Measurements

In SiteScanner, real-time measurements are collected point by point (Single Marker) or in multiple points plotted along a straight line between the user's start and end points (Track Run). SiteScanner records live RSSI, noise levels, and data rate as well as 11n statistics such as channel width, guard interval and MIMO performance—actual activity in real time.

Network Performance Validation

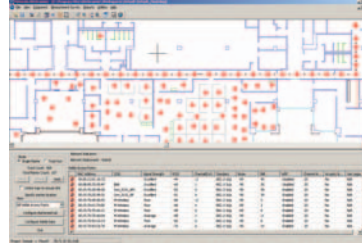
By generating network traffic, SiteScanner allows the capture of network-level data such as throughput, packet latency, retry rates and jitter. WLAN managers can test and measure the client-AP and client-server links. Users can also stress test to determine the maximum available bandwidth. Round-trip times, packet error rate, packet timeout, transmit bandwidth and peak data rate are some of the many valuable statistics collected using SiteScanner's AP Performance Mode.

11n Measurement and Validation Functionality

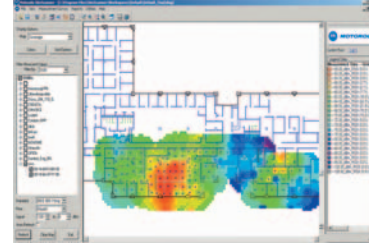
With the added sophistication of modeling 802.11n's Multiple Input Multiple Output (MIMO) technology, SiteScanner provides users the ability to visualize the site-specific MIMO effects of their deployed network, whether it is a mixed a/b/g/n network or a homogeneous 11n network. Hybrid Network Overlap is a visualization that allows network planners to determine better performance potential due to the presence of 11n APs and to locate where legacy equipment is hindering 11n technology. Another view, Channel Width Performance, verifies that clients associating and transmitting/receiving data to 802.11n APs are using the full channel width. SiteScanner's live measurements, data visualizations and reporting features empower network managers to realize the full benefit of the 802.11n standard.

SPECIFICATION SHEET

SiteScanner™ Software



Measure and record live network activity for 802.11a/b/g/n networks



Visualize network performance by channel, SSID or MAC address

ONE POINT WIRELESS SUITE

SiteScanner is part of Motorola's One Point Wireless Suite, an innovative set of software solutions that work together to make indoor and outdoor wireless network design, deployment and management more visual, more complete and more effective. motorola.com/onepoint

CONTACT

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Customizable Visualizations and Analysis

Not only does SiteScanner generate multiple visualizations of the site survey data, the software allows the user to customize their views and reports for clear analysis. In addition to using heat maps to identify areas of wireless coverage, users can readily visualize signal-to-noise ratio, expected legacy data rate, channel allocations and SSID usage. Custom visualizations enable IT managers to identify interference from neighboring networks, isolate a precise channel where noise is located and eliminate the external factors impacting the network. All customizable views can be reviewed on a per access point, per channel, per standard or per network basis and can be exported as professional reports in Microsoft Word format.

Motorola's Wireless Network Design Process

SiteScanner is a key driver of Motorola's Wireless Network Design Process. After gathering diagrams and network requirements in Phase 1, network designers use LANPlanner to create a site-specific, RF intelligent model of the facility in Phase 2. With SiteScanner, users are able to perform Phase 3, confirming that the installed network performs to customer specifications and addressing any areas of the deployment that may need to be adjusted. Finally, seamless integration with RF Management Software allows for quick and effective monitoring and troubleshooting of the deployed network. Motorola's four-phase approach ensures the unsurpassed quality and undeniable value of high-performing wireless networks.

Integration with LANPlanner for Full Optimization

Only SiteScanner provides export functionality of survey data to WLAN network design software, LANPlanner. This unique feature enables true optimization of a network by providing actual measurements in a powerful design tool. LANPlanner utilizes survey results to create minutely accurate networks that deliver superior quality of service.

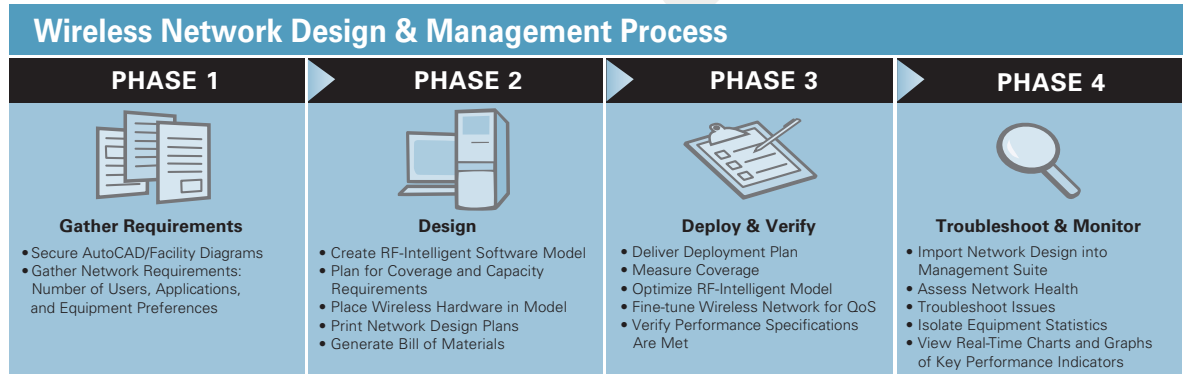
SiteScanner™ Specifications

System Requirements

Processor:	Intel® Pentium® IV processor or later, 1.5 GHz
RAM:	1 GB RAM
Operating System:	Microsoft® Windows® XP
Hard Disk:	300 MB for installation
Software:	Microsoft Word® XP (Word 2002 or Word 2003) required for generating reports

Wireless Cards (for RF Monitoring Mode)

a/b/g Cardbus	Netgear® WAG511 Ubiquiti Networks Super Range Cardbus
b/g/n ExpressCard	D-Link® Xtreme N Notebook ExpressCard DWA-643 Belkin® N1 Wireless ExpressCard
b/g/n Cardbus	D-Link® RangeBooster N 650 DWA-645
a/b/g/n Cardbus	CACE Technologies AirPcap N AirMagnet® C1060



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