



# LANPlanner®

## Ensuring High Performance WLAN Networks

Motorola LANPlanner facilitates prompt and precise planning, design and measurement of robust 802.11a/b/g/n networks for demanding applications in the most challenging environments.



### FEATURES

#### Network Migration Wizard

Address the three most popular 11n deployment scenarios: clean slate environment, “rip and replace” and mixed deployment with legacy and 11n equipment

#### Performance Simulation

Predict how applications and number of users will impact wireless performance and QoS

#### Quick Start AP Placement

Automate placement and configuration of access points and sensors

#### RF Attenuation Library

Build a site-specific, RF-intelligent model of the wireless deployment facility

#### 11n Technology

Visualize the site-specific MIMO effects of the deployment environment

#### SiteScanner Survey Tool

Verify post-deployment network performance

#### RF Management Integration

Seamlessly share design data for troubleshooting and monitoring

**Building a wireless network that delivers superior Quality of Service (QoS) and maximum value means designing it for the conditions in which it operates and the capacity and coverage that customers require. The multitude of wireless applications, the impact of environmental factors, and the variety of network equipment configurations can present daunting challenges to even the most experienced network designer. LANPlanner takes wireless network performance to the next level, enabling network planners to rapidly and accurately design robust wireless networks with the capacity, reliability, performance and infrastructure required for business critical wireless applications.**

#### RF-Intelligence for a Site-Specific Network Design

LANPlanner's easy to use GUI allows for a quick import of building and site information from a variety of formats including AutoCAD files, scanned images, and hand-drawn floor plans. This building file becomes RF-intelligent as users map interior and exterior walls and other structures using the embedded library of RF attenuation characteristics, creating a site-specific model for the wireless network.

#### Optimal Wireless Performance through Simulation

After creating the RF-intelligent model, designers add details about the number of users, their locations, and the applications they will use. LANPlanner combines this information with the model to recommend the number and placement of access points. The simulation allows designers to visualize coverage, SSID, co-channel interference and wireless VoIP handoff regions resulting in reduced wireless network planning, deployment, and operating costs – while providing superior wireless QoS.

#### Premiere 802.11n Planning and Migration Functionality

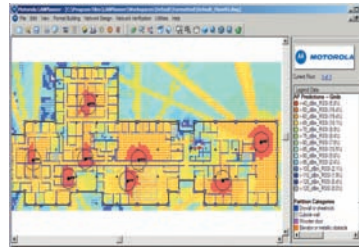
LANPlanner includes the added sophistication of modeling 802.11n's Multiple Input Multiple Output (MIMO) technology, providing users the ability to visualize the site-specific MIMO effects of their deployment environment—a feature unparalleled in innovation and accuracy. The new network migration wizard employs an automated process that combines this powerful predictive technology with an easy-to-use interface that eliminates the guesswork of upgrading an existing 802.11a/b/g network to 802.11n. Additionally, network planners may evaluate the performance of homogeneous, 11n-only networks or mixed technology networks that include both 11n and legacy APs. When deploying new 11n networks or upgrading existing networks, LANPlanner's network migration wizard and 802.11n planning capabilities empower enterprises to realize the full benefit of MIMO technology.

#### Verify Network Performance with SiteScanner™

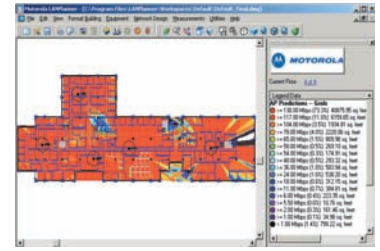
LANPlanner's site survey tool, SiteScanner, employs a map-based interface that allows users to quickly record live network data, run visualizations of the measured data and identify sources of potential wireless issues. Survey visualizations can be reviewed on a per access point, per channel, per standard or per network basis, confirming that the installed network performs to customer specifications.

“An investment in network design can affect a 50% savings in WLAN setup costs.”

— **Gartner**  
 “Wireless LAN Technology Scenario”



Run “what if” scenarios to visualize WLAN coverage



Easily evaluate the impact of upgrading to new technologies

**CONTACT**

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**Detailed Reports for Time-Saving Communications**

LANPlanner automatically generates reports in a Microsoft Word format that contain access point locations, coverage expectations, data rate requirements, channel assignments, power levels and SSID allocation. Customized reports professionally present the deployment plan and predicted results to customers and deployment teams, saving time and maximizing communication.

**Motorola’s Wireless Network Design Process**

LANPlanner is a key driver of Motorola’s Wireless Network Design Process, a four-phase plan to optimal wireless network performance. After the initial stage of 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, LANPlanner software ensures that the user-specified environment, equipment and requirements are considered while generating predictive visualizations of the network. During Phase 3, the bill of materials is delivered to the deployment team, and SiteScanner is employed to verify and optimize the design. Finally, LANPlanner’s seamless integration with RF Management Suite 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.

**Seamless Integration with RF Management Suite**

Once a user saves their network design into the RF Management Suite server, real-time network visualizations, charts and graphs of over 200 network statistics and key performance indicators enable assessment of network health and device-specific performance at the click of a mouse. Statistics such as RF coverage, mobile device association and network utilization are graphically displayed, allowing IT professionals to assess live network status and troubleshoot issues instantly.

**LANPlanner® Specifications**

**System Requirements**

Processor:	Intel® Pentium® III processor or later, 800 MHz
RAM:	1 GB RAM
Hard Disk:	300 MB for installation
Operating System:	Microsoft® Windows® XP
Software:	Microsoft Word® XP (Word 2002 or Word 2003) required for generating reports
Monitor:	1024 X 768 VGA with true color
Wireless Cards (for RF Monitoring Mode):	Netgear® WAG511, WG511 Ubiquity Networks SuperRange Cardbus D-Link® RangeBooster N 650 Notebook Adapter DWA645 CACE Technologies AirPcap N CardBus
Compatible with standard 802.11 a/b/g/n Wireless Hardware	

