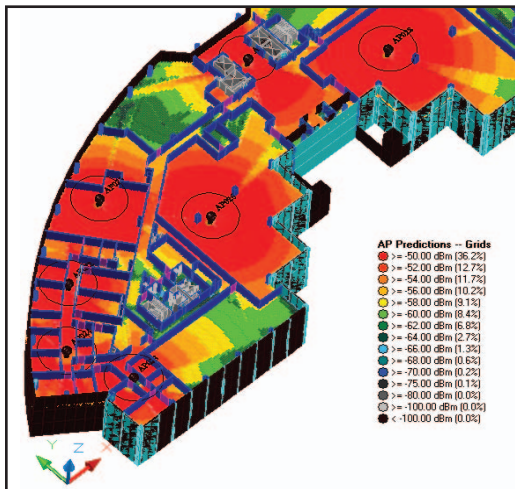




# LANPlanner®

## Sophisticated Technology for High-Performing WLAN Network Design

LANPlanner uses an intuitive 3D interface and an advanced RF performance modeling engine to help customers design and survey 802.11 a/b/g/n wireless LANs that deliver maximum performance at minimum cost. This powerful tool not only models signal strength, data rate and interference but also visualizes the site-specific MIMO effects of the deployment environment for 802.11n access points. LANPlanner also predicts how a planned network will perform for web surfing, file downloads, FTP file transfers, video conferencing, wireless VoIP or location-based triangulation with specialized application coverage maps.



3D View of Modeled RSSI Coverage

### Site-Specific Network Design: RF-Intelligent, Multi-Floor, 3D

LANPlanner's embedded library of RF attenuation characteristics allows network designers to map interior and exterior walls and other structures to create an RF-intelligent model for a wireless network. The ability to model multi-story buildings and visualize predictions in 3D enables users to picture cross-floor RF propagation and interference specific to the facility, even if the facility has not been constructed. The 3D nature of LANPlanner also allows users to create superior network designs with higher quality of service as channel planning accounts for APs in all directions, whether they exist on the same floor or not. LANPlanner's comprehensive site-specific approach also considers the height of transmitters and receivers when surveying and mapping coverage of a live network.

### One Point Wireless Suite

LANPlanner 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](http://motorola.com/onepoint)

### LANPlanner Features and Benefits:

- Identify Ideal Infrastructure Locations and Settings
- Predict Wireless Network System Performance in 3D
- Survey 802.11 a/b/g/n Coverage, Performance and Interference
- Plan Networks for Specific Application and Capacity Requirements
- Estimate and Measure Wireless VoIP Performance
- Fine Tune Network for Security/WiPs Coverage
- Identify Problem Spots: Dead Zones, Roaming Regions, Noise
- Model 3D Antenna Patterns and Visualize Impact to WLAN
- Visualize Performance for 802.11n (Including Effects from MIMO)
- Build Indoor 3D RF Environment Models from Library of Building Materials
- Optimize Network Performance with Survey Data and Simulations
- Import AutoCAD, BMP, and JPG floorplans
- Identify Optimal Channel Assignments (Including Cross-Floor Analysis)
- Determine Low-Cost Path for Network Improvements or Upgrades
- Model Any Vendor's 802.11 a/b/g/n Transmitters and Interfering Sources
- Export Network Plan to Motorola's RF Management Software (RFMS)
- Produce Professional Reports, Bill of Materials, and RF Link Budgets

## SPECIFICATION SHEET

LANPlanner® Software

### LANPlanner Survey Benefits

Identify infrastructure location and settings

Survey 802.11 a/b/g/n coverage, performance, and interference

Perform active or passive surveys

Identify problem spots: dead zones, roaming regions, noise

Visualize areas of network degradation due to legacy equipment

Collect performance metrics for wireless VoIP

Identify and classify rogue and unauthorized access points

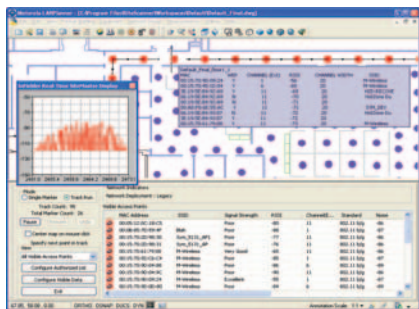
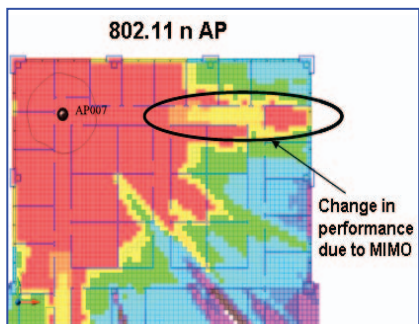
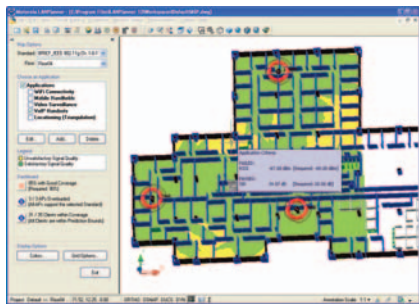
Perform end-to-end IP connectivity and throughput tests

Collect data manually or using continuous capture

Record and visualize data from select Anritsu Spectrum Analyzers

Export network plan to Motorola's RF Management Software (RFMS)

Produce professional reports



### Plan Networks for Application Usage

Easily visualize how the wireless network will perform for wireless VoIP, web surfing, file downloads, video conferencing, location based triangulation and custom, user-defined applications. Accounting for the number of users and their locations, LANPlanner evaluates RSSI, SNR, Data Rate and AP Coverage Overlap to produce a single, easy to interpret, "good-bad" view of application performance.

### Visualize 802.11a/b/g/n Performance

LANPlanner models 802.11n's Multiple Input Multiple Output (MIMO) technology, providing users the ability to visualize site-specific MIMO effects of their deployment environment—a feature unparalleled in innovation and accuracy. LANPlanner can recommend access point locations and settings based on the number of users, their locations and the applications they will use within the RF-intelligent model. The software also allows users to "manually" place APs in the model with real-time predictions. The simulations allow designers to visualize coverage, interference, data rate, utilization, wVoIP handoff regions and more.

### Perform Site-Surveys and Optimizations

Validate network performance, troubleshoot network issues, identify and locate rogue access points, visualize measured heat-maps, and optimize system performance by completing site-walks with LANPlanner's easy-to-use, built-in measurement functionality. In addition to common survey features and functionality, LANPlanner provides the ability to combine measured data with predicted performance to optimize and fine tune the network prediction engine to ensure accurate results.

## LANPlanner® Specifications

### System Requirements

Intel® Pentium® IV processor or later, 1.5 GHz

1 GB RAM

Microsoft® Windows® XP, Vista

300 MB hard disk for installation

Microsoft Word® XP, Vista (Word 2002, 2003, 2007) required for generating reports

Standard 90-day software warranty  
One and three-year service contracts available

Wireless Adapters: [onepointwireless.com/rfdesign/adapters](http://onepointwireless.com/rfdesign/adapters)

### Ordering Information

LANPlanner® RVN5226A

Upgrade RVN5223A available for licenses with current service contracts only

### Contact Information

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