SpectraGuard® Planner

Wireless LAN Planning for Coverage, Performance and Security

Quickly Plan for Wireless LAN Coverage

Planning a wireless LAN network can be a time consuming endeavor involving a manual site survey process, marking up floor plans, and tedious recording of the measurement data at each step of the way. Invisibility and the uncertainty of RF propagation can make wireless LAN planning a complex task, especially as the size of wireless LAN deployments are increasing. With SpectraGuard Planner, the job becomes much easier.

- Quickly model wireless LAN coverage and performance for your specific site(s)
- Assess your wireless security risks from signal spillage outside your building
- Generate equipment lists for deployment

SpectraGuard Planner is a wizard-driven, easy-to-use tool for pre-deployment RF planning. It automates the pre-deployment activities for WLAN capacity and WIPS (Wireless Intrusion Prevention System) planning.

Uniquely Models Security Coverage and Risk Level

SpectraGuard Planner gives you precise insight into your security exposure. You see the RF spillage from your wireless LAN outside the building, and SpectraGuard Planner provides a plan for security coverage. SpectraGuard Sensor placement models ensure that you have the right level of coverage for your security risk profile.
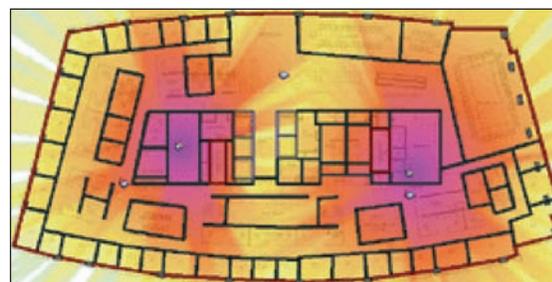

Figure 1. AP Coverage Overview—Model wireless LAN coverage without a physical site survey

Figure 2. Sensor Coverage View—Determine security sensor coverage for your risk profile

Rich Tool Set for Precise Modeling

SpectraGuard Planner provides an integrated suite of easy to use tools for superior modeling accuracy

- **Models 802.11a, b, g and n protocols**
- **AutoCAD support automatically models RF environment based on AutoCAD parameters**
- **Models channel allocation and interference for best performance**
- **Extensive and customizable knowledge base of APs, WLAN cards, and antennas**
- **Comprehensive catalog of building materials (and RF characteristics) to be applied to your floor plans**
- **Automatically takes input from live RF environment**
- **Models cross-floor spillage effects**

Audit Your Deployment for Security Risks and Performance

After deployment, SpectraGuard Planner continues to help your network perform well. SpectraGuard Planner will suggest a small set of calibration points at several locations that can be fed back into the original model. This correlation of the actual results with the predicted model results in an even more precise model for further what-if analyses.

802.11n Planning Capabilities

SpectraGuard Planner enables WLAN deployment planning as well as WIPS planning including 802.11a/b/g to 802.11n migration. It also enables advanced MIMO (2x3, 3x3, etc.) planning capabilities.

Wizard-based Workflow

Supported for both WLAN capacity and WIPS planning, wizard-driven workflow allows you to specify parameters such as number of users, capacity parameters, and access points to be used. The Planner tool, then, automatically determines number of access points, their optimal placement, channel selection, and power settings. For WIPS planning, it automatically determines the number of WIPS sensors and their optimal placement.

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