



AirTight® Wireless LAN Planning Services

Deploy Your Wireless LAN with Confidence and Optimize performance with Pre-Deployment RF Planning and Active Wireless Site Survey



AirTight BENEFITS

- Maximize performance and capacity of existing WLANs
- Eliminate unnecessary infrastructure and costly over-provisioning
- Identify coverage and security gaps
- Confidently implement your enterprise applications, including VoIP, over WiFi
- Receive a detailed WLAN Planning Report that includes
 - Complete bill of material
 - RF coverage maps
 - Recommended device placement
 - Precise guidance on WLAN configuration
- Benefit from experienced RF experts at every step of your WLAN rollout including migration to 802.11n
- Over 250 million sq. ft. of predictive RF planning experience and over 100 million sq. ft. of on-site RF surveys

AirTight Planning Services can help you with your indoor or outdoor wireless LAN (WLAN) implementation, whether you want to:

- Rollout a fresh WLAN;
- Troubleshoot performance issues with an existing WLAN;
- Upgrade the capacity or coverage of an existing WLAN;
- Migrate to 802.11n;
- Deploy a Wireless Intrusion Prevention System (WIPS).

Enterprises can take advantage of two levels of services: Predictive RF Planning and Onsite Wireless Survey, or a combination of the two.

Predictive RF Planning

Careful planning is the key to deploying a reliable enterprise WLAN—one that ensures adequate RF coverage and capacity to meet the performance expectations of your users and applications, to ensure that you do not over or under-provision. However, planning a WLAN that requires more than a few access points (APs) can quickly become overwhelming for any IT administrator given the inherent unpredictability of RF signals and the number of variables involved: building geometry, structures and material, transmission power, channel assignment, antenna type and gain, tradeoffs between RF coverage and capacity requirements, RF spillage and interference, to name a few.

Unable to meet the challenge, enterprises often end up over-provisioning. But, spending more money does not guarantee improved WLAN performance and can even hinder its proper operation.

AirTight's online predictive RF planning service makes WLAN planning a low-effort and low cost affair. No onsite visit is required. All you need to do is fill out the online [WLAN Planning Request Form](#) with your site specific WLAN requirements and submit AutoCAD or image files of your premises. The planning services team, using AirTight's SpectraGuard® Planner RF planning and visualization tool, will email you a detailed WLAN planning report for each site within a week. The report includes:

- Detailed bill of material including the number of WLAN APs, your chosen AP vendor and model, and antenna type
- Recommended channel assignment and transmission power settings to minimize interference
- Recommended AP placement to optimize performance and minimize RF spillage

WLAN Planning Report

Floor: Indoor_Demo1

1. Work Order

Table 1 List of Devices

Layout Name	Device ID	Vendor	Model	Location From NW Corner	Number of Pairs
Indoor_Demo1	AP001	Generic	AP0	78 ft E, 63 ft S	2
Indoor_Demo1	AP002	Generic	AP0	182 ft E, 75 ft S	2
Indoor_Demo1	Sensor501	AirTight	SS-200-AT	125 ft E, 31 ft S	2
Indoor_Demo1	Sensor502	AirTight	SS-200-AT	125 ft E, 31 ft S	2
Indoor_Demo1	Sensor503	AirTight	SS-200-AT	53 ft E, 80 ft S	2

Table 2 Device Details

Device ID	MAC Address	Operating Protocol	Channel	Transmit Power (mW)	Antenna
AP001		g	36	40	Generic, 2.2dBi/Dipole
AP002		g	1	100	Generic, 2.2dBi/Dipole
AP001		g	36	40	Generic, 2.2dBi/Dipole
AP002		g	1	100	Generic, 2.2dBi/Dipole
Sensor501		g	NA	25	Generic, 2.2dBi/Dipole
Sensor502		g	NA	100	Generic, 2.2dBi/Dipole
Sensor503		g	NA	25	Generic, 2.2dBi/Dipole
Sensor502		g	NA	100	Generic, 2.2dBi/Dipole
Sensor503		g	NA	25	Generic, 2.2dBi/Dipole
Sensor503		g	NA	100	Generic, 2.2dBi/Dipole

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- Comprehensive RF coverage maps visualizing signal strength, link speeds, channels, inter-AP interference, RF spillage for each floor
- WLAN capacity planning for data and VoIP
- Bill of material, placement and coverage of WIPS sensors, if planning for wireless security

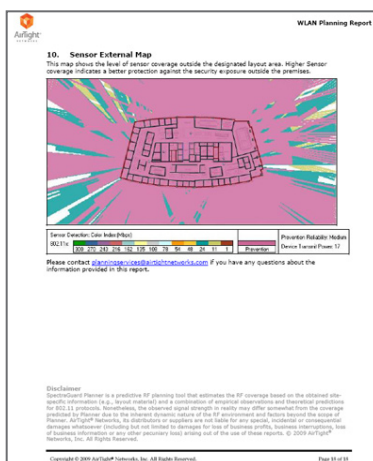
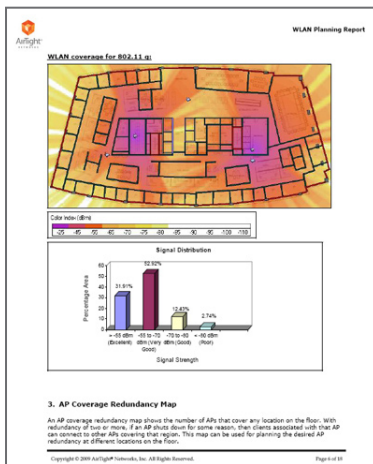
Active Wireless Site Survey- Get the most benefit from your WLAN

Complementary to the predictive planning service is our active wireless site survey service. A live RF site survey can be used as a pre-deployment strategy to validate and fine tune recommendations made by our predictive planning service, or to conduct an RF audit of an existing WLAN and troubleshoot performance problems if any. As a part of this service, enterprises have the benefit of interacting with AirTight's team of RF experts.

A member of our RF team will visit your premises and conduct a comprehensive RF site survey. The site survey report for each site will include:

- Detailed information about your existing WLAN including the vendor, model, MAC address, serial number, physical location, protocol and RF settings, power source and an actual photo of each WiFi access point
- Guidelines for continued reliable operation such as precise power and channel settings, antenna type and orientation, mounting and installation best practices, and special needs if required (e.g., use of NEMA enclosures)
- RF heat maps for each floor based on the live RF measurements taken during the site survey
- Spectrum analysis to detect presence of live RF interference and to fine tune the number and placement of WiFi APs

For more information: www.airtightnetworks.com/wlan-services



The Global Leader in Wireless Security Solutions

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