



AirMagnet Survey

AN AIRMAGNET MOBILITY SOLUTION



AirMagnet Survey delivers fast, scientifically accurate site surveys for any 802.11a/b/g/n indoor and outdoor wireless network. This revolutionary software automatically gathers critical Wi-Fi and RF spectrum information from your enterprise network using multiple data collection methods and generates detailed Wi-Fi performance maps of the results for easy network deployment, capacity planning and optimization. It is the only survey solution to actively associate to APs and get real world uplink/downlink data rates, retry and packet loss information. The solution provides a sophisticated network simulator that lets users virtually optimize their network to resolve any problems detected during the survey. A built-in reporting engine provides customizable professional reports of both actual and simulated data, providing users with an invaluable “before and after” report of their WLANs.

FAST SCIENTIFIC SITE SURVEYS

Survey 802.11a/b/g/n Networks

Identify Coverage Areas and Dead Spots

Set Ideal AP Placement and Power Settings

Identify Areas of RF Interference, Roaming & Noise

Measure True End-User Experience

Plan for End-User Capacity & Simulate Network Changes for Ongoing WLAN Optimization

Visualize Differences Between Surveys

Establish a Secure Network

Accurately Survey and Analyze Infrastructure Vendor Networks

Use Optional AirMagnet Planner Software for WLAN Design and Modeling

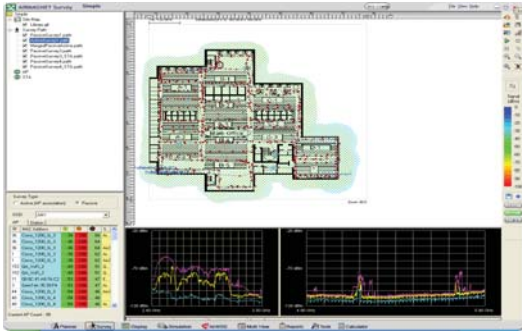




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Unmatched Analysis



Survey view

Real World Performance

Unlike other solutions that rely only on passively collected data such as signal strength, AirMagnet allows users to perform active/lperf surveys to ensure a superior site survey. During an active/lperf survey, AirMagnet actually associates to an AP to test the real quality of the connection. This allows surveyors to see exactly how real world clients will perform at specific locations in terms of connection speed, retry rates, and packet loss. With lperf Surveys, users can obtain separate uplink and downlink statistics, which may be different for 802.11n networks depending on the AP and station capabilities.

Simulation and Optimization

After a survey, users can simulate a variety of changes to the network and preview the impacts. This includes changing AP Transmit Power, Channel, SSID, and even added environmental noise. Users can simulate moving APs to new locations and preview the effect of adding additional APs. Survey can also automatically recommend a channel plan for your APs that avoids interference and over-allocation.

Detailed Analysis

AirMagnet Survey automatically displays survey results on a map of your location, providing unlimited options for visual analysis.

Complete View of Wireless Statistics - View the distribution of Signal, Noise, Signal/Noise, Frame Speeds, Retry Rates, and Packet Loss.

Interference Analysis - Measure the total cumulative interference from all sources that can impact the performance of your APs.

View by Channel, SSID, or Device - Sort results based on SSID or channel to easily balance RF issues against VLAN and service level requirements.

Overlap and Roaming Analysis - Instantly see areas of over-provisioning or where clients are prone to consistent roaming or "thrashing" between APs.

Simulate wireless adapters - Take an existing survey and view exactly how another adapter would view the survey environment.

Establish a Secure Network

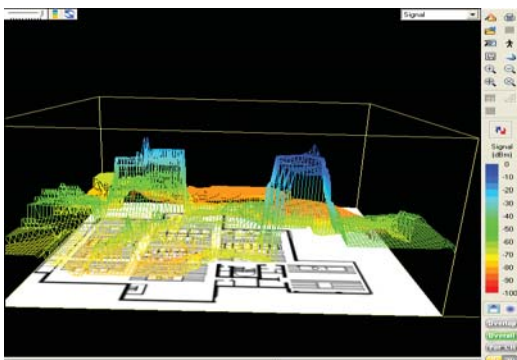
While satisfying the performance needs, AirMagnet Survey can be used to monitor for RF spillage outside the corporate building. This spillage should be kept to a minimum, unless service is to be provided in the parking lot or an outside area. Users can also locate unauthorized or performance intensive stations during a survey on the floor map.

Multiple Form Factor Support

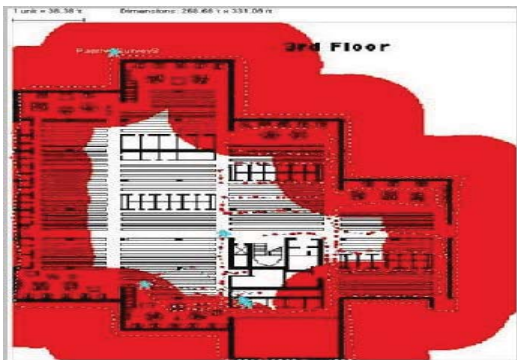
AirMagnet Survey can be installed on a variety of platforms including Windows-based Laptops, Tablet PCs and Ultra Mobile PCs. With the UMPC support, users – for the first time – can plan and design all aspects of the WLAN with a PC that can fit in their pocket. Site Surveyors can now conveniently walk the corporate premises with a light-weight tool in their hand and collect live signal, speed and packet information. AirMagnet Survey supports the OQO model 02/e2 Ultra Mobile PC .

Visualize Survey differences

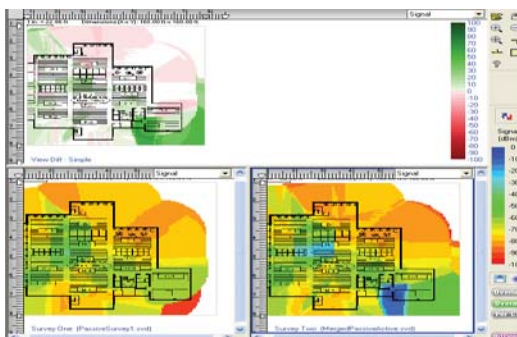
AirMagnet Survey's Diff View feature allows side-by-side visualizing of differences between two separate surveys. This helps show how a site's wireless environment has changed over time. Likewise, users can use this feature to quickly compare Planner results with actual Survey results.



3-D view to visualize highest/lowest signal values



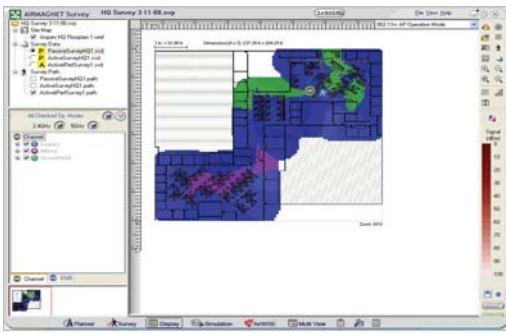
RF Spillage outside the corporate building



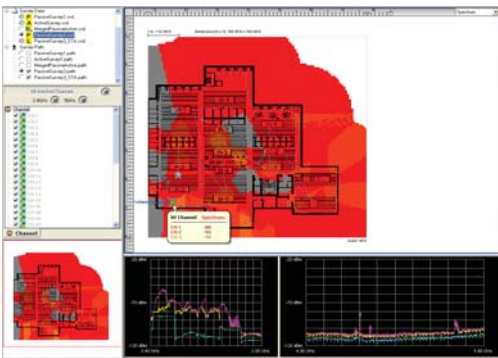
Diff view to compare surveys

AirMagnet Survey PRO

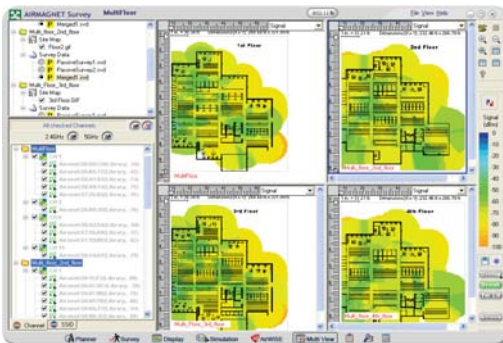
AirMagnet Survey PRO is a separate version of the Survey software containing all the functionality of the standard version plus an additional set of features tailored to the needs of the wireless expert. Additional features include:



802.11n Operation Mode coverage map



Collect Wi-Fi and non Wi-Fi data in a single survey



Multi-floor site surveys to see coverage bleedover



Google Earth integration for outdoor surveys

802.11n Site Surveys

With signal strength no longer being a good predictor of network coverage with 802.11n networks and multipath now considered to be a “good thing”, AirMagnet’s 802.11n Iperf & Active surveys take into account the real-world impact of multi-path encountered at each individual location. Survey also adds full Iperf functionality - an open source network performance measurement tool - to actively test both uplink and downlink performance. It assists with legacy AP/station coexistence planning/channel assignment and ensures ubiquitous and always available coverage in the Wi-Fi network.

Operating Mode coverage map: Verify the operation mode (Greenfield, Mixed-mode, legacy) of corporate APs at every location.

MCS Rate coverage map: Maps the Transmit/Receive Modulation Coding Scheme detected from 802.11n devices to give the best visibility into true performance.

Channel Width coverage map: Map allows users to easily view the different channel width implementations (20- or 40-MHz) used by 802.11n devices in the network environment and also verify the AP configuration.

802.11n AirWISE requirements: AirWISE provides a 1-click visibility to see if the actual 802.11n network meets the design goals.

Throughput Simulator Tool: The Simulator tool assists in planning for throughput as the network grows and calculates the network, node, media throughput, utilization and overhead under user-specified conditions.

Integration with AirMagnet Spectrum Analyzer

Users who own the AirMagnet Spectrum Analyzer can collect both Wi-Fi and spectrum analysis data in a single survey. This lets users see the physical spectrum at any particular location, and even automatically identify and display the presence of non-802.11 devices that are interfering with the WLAN. Users can visualize the average power level in the RF spectrum for each channel at any given point on the map.

Multi Project views

Survey PRO provides the ability to analyze up to 4 separate projects simultaneously. Users can load multiple floors of a single building to see if AP signals are bleeding to adjacent floors.

AirWISE for Site Surveys

The AirWISE engine lets users set design requirements for their network and immediately identify any problem areas. Users can quickly test the network against a variety of criteria and get expert advice on how to resolve any problems. There is also a capacity planning section that allows surveyors to account for the number of end users the WLAN will need to support.

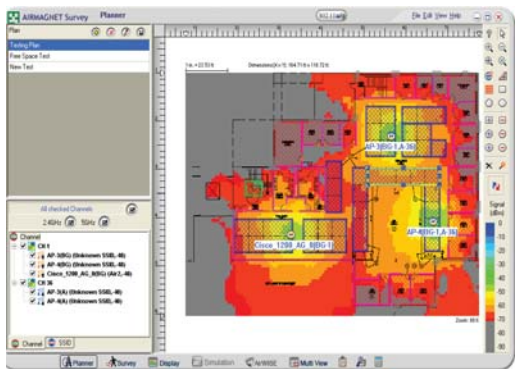
Professional Reporting

Survey PRO includes a completely integrated reporting module that can instantly create custom outputs of your site surveys and simulations. Reports include coverage and interference assessments of every channel, SSID, and AP. Reports can be output in over 15 formats including PDF, XML, HTML, Microsoft Excel and Microsoft Word.

Outdoor Surveys

With the combination of GPS support, 4.9 GHz support and integration with Google Earth, Microsoft® MapPoint and Microsoft® Virtual Earth. AirMagnet Survey PRO provides a clear path to fast, fully automated outdoor surveys. Users can leverage their NMEA compliant GPS device to automatically collect outdoor wireless data. The results can then be analyzed in the AirMagnet user interface or exported into Google Earth.

Integration with AirMagnet Planner



AirMagnet Planner for automated WLAN modeling

AirMagnet Planner is available as a standalone product or as a fully integrated feature of AirMagnet Survey and Survey PRO (Separate Planner Module license required for integration with AirMagnet Survey or Survey PRO). AirMagnet Planner lets users design predictive models of their wireless networks based on building materials, indoor obstructions, antenna types, AP configurations and much more. With this integrated solution, users can accurately design their WLANs, plan for speed and then validate the results with real-world data using active end-user performance metrics, allowing users to further perfect their planning models over time. No other solution combines state-of-the-art predictive modeling with real-world performance data. AirMagnet Planner implements an advisor feature to help users automatically optimize the layout of APs on site plans.

Product Facts

Product	Part Number	Minimum System Requirements
AirMagnet Survey Standard	A4010	Microsoft® Windows Vista™ Business/Ultimate (SP1) or XP™ Professional (SP3) / Tablet PC Edition 2005 (SP3) or MAC OS X Leopard™ (Apple® MacBook® Pro running Windows XP™ PRO/SP3 using Boot Camp®). Note: Use Windows XP™ SP2 if using AirMagnet Spectrum Analyzer as a standalone application on the same machine. Intel® Pentium® M 1.6 GHz (Intel® Core™ 2 Duo 2.00 GHz or higher recommended) 1 GB memory (2 GB recommended) for Windows XP™. 2 GB or higher required for Windows Vista™ 800 MB of free disk space An AirMagnet Spectrum Analyzer Adapter and license (Required for viewing spectrum data and classifying non-802.11 devices. Not supported on Ultra Mobile PC platform) Microsoft® MapPoint 2004 or higher (required for running large-scale outdoor survey using the MapPoint integration feature) Internet connection for using Microsoft® Virtual Earth integration for outdoor surveys A site map in a format supported by AirMagnet Survey (supported formats are: .bmp, .dib, .dwg, .dxf, .emf, .gif, vsd, .jpg, or .wmf.) Google Earth must be installed in order to export the GPS data for outdoor surveys to Google Earth A CardBus, ExpressCard, USB port or Mini PCI slot AirMagnet supported wireless adapter For Ultra Mobile PC platform support: OQO model 02/e2: http://www.oqo.com/products/index.html (Better and best configurations supported. Windows XP™ PRO only)
AirMagnet Survey PRO	A4015	
AirMagnet Survey Standard to Survey PRO (upgrade model)	A4016	
AirMagnet Spectrum Analyzer (optional)	A4030	
AirMagnet Analyzer and Survey Suite for 802.11n	A1354	
AirMagnet 802.11a/b/g/n Wireless PC Card	C1060	

Patents: U.S. Patent No. 7009957, 7236460, 7292562, 7289465 and 7130289. Additional patents pending.

For More Information

SALES: http://www.airmagnet.com/company/contact_airmagnet.php?type=sales

DEMO DOWNLOAD: <http://www.airmagnet.com/products/demo-download.php?demo=survey>

Click now

on one
of these URLs



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