



AirMagnet Survey

AN AIRMAGNET MOBILITY SOLUTION



AirMagnet Survey delivers fast, scientifically accurate site surveys for any 802.11a/b/g 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. 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” reports of their WLANs.

FAST SCIENTIFIC SITE SURVEYS

- 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 in Terms of Connection Speed, Retry Rate, and Packet Loss
- 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 also collects active survey data to ensure a superior site survey. During an active 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.

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

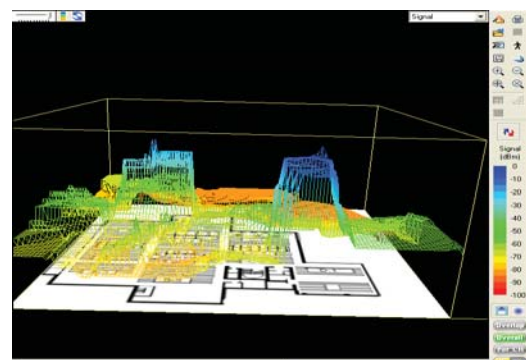
While satisfying the performance needs, AirMagnet Survey can be used to monitor for RF spillage outside the corporate building. This spillage should be kept to a minimum, unless service is to be provided in the parking lot or an outside area. Users can also locate unauthorized or performance intensive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

Infrastructure Vendor Network Surveys

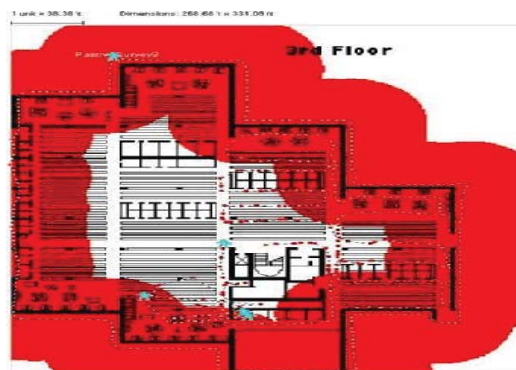
Infrastructure vendors provide multiple BSSIDs (MAC addresses) for a single AP to support multiple security configurations & applications on a single physical AP. AirMagnet Survey includes automatic AP grouping capabilities to view such APs and recognize all the BSSIDs belonging to it, making data analysis easier. AirMagnet Survey includes pre-defined grouping for the Cisco and Aruba Infrastructure.

Visualize Survey differences

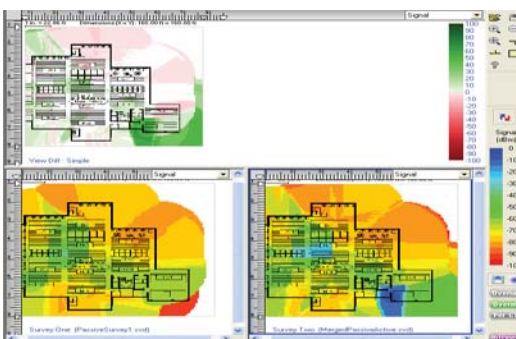
AirMagnet Survey's Diff View feature allows side-by-side visualizing of differences between two separate surveys. This helps show how a site's wireless environment has changed over time. Likewise, users can use this feature to quickly compare Planner results with actual Survey results.



3-D view to visualize highest/lowest signal values



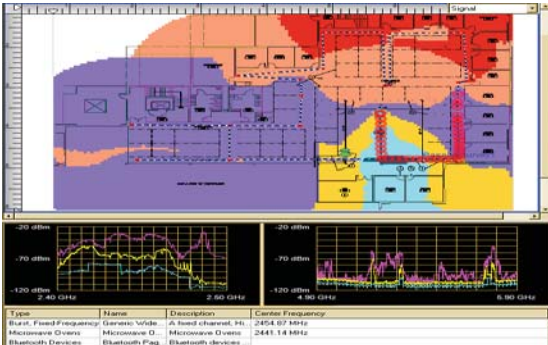
RF Spillage outside the corporate building



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:



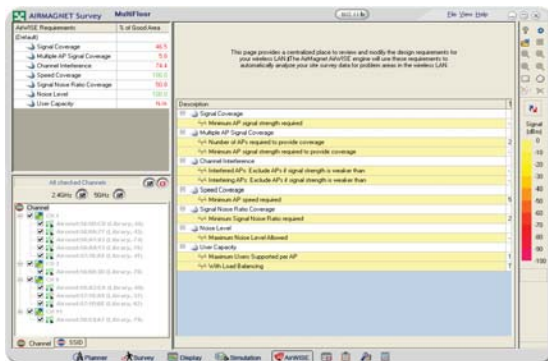
Collect Wi-Fi and non Wi-Fi data in a single survey

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.

RF Spectrum Heat Map

Visualize the average power level in the RF spectrum for each channel at any given point on the map. The color-coded display makes it easy to determine areas of unusual spectrum traffic, allowing the user to quickly troubleshoot problem spots and plan for future Wi-Fi deployments. (Requires Survey PRO and AirMagnet Spectrum Analyzer)



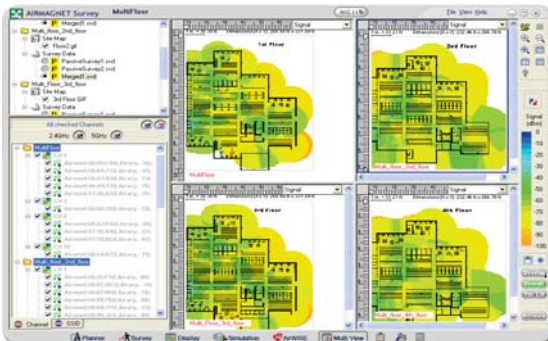
AirWISE to set design requirements for networks

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.

Capacity Planning

AirWISE also includes a capacity planning section that allows surveyors to account for the number of end users the WLAN will need to support. With this tool users can easily verify that the network will have enough APs to meet the bandwidth and throughput needs of end users.



Multi-floor site surveys to see coverage bleedover

Multi Project views

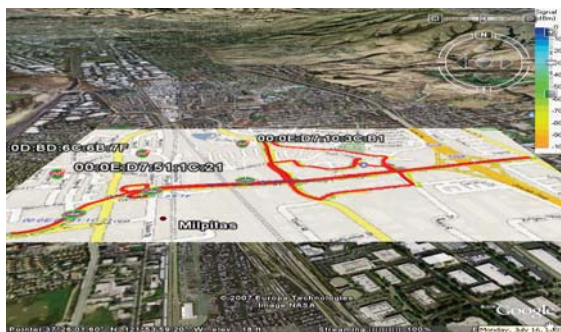
Survey PRO provides the ability to analyze up to 4 separate projects simultaneously. Users can load multiple floors of a single building to see if AP signals are bleeding to adjacent floors.

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.

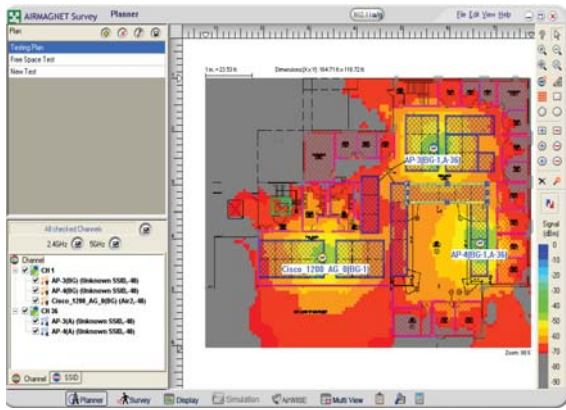
Outdoor Surveys

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.



Google Earth integration for outdoor surveys

Integration with AirMagnet Planner



AirMagnet Planner for automated WLAN modeling

AirMagnet's predictive Planner product (sold separately and also available as a standalone option) seamlessly integrates into AirMagnet Survey. 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, such as actual connection speed and 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 or Ultimate, 2000 (SP 4) or XP™ Professional (SP 2) / Tablet PC Edition 2005 (SP 2)
AirMagnet Survey PRO	A4015	Pentium® M 1.6Ghz or higher recommended
AirMagnet Survey Standard to Survey PRO (upgrade model)	A4016	512MB Memory (1 GB or more recommended for large/complex projects) for Windows 2000/XP™ PRO, 1 GB Memory (2 GB or more recommended for large/complex projects) for Windows Vista™
AirMagnet Spectrum Analyzer (optional)	A4030	250MB of free disk space
		An AirMagnet Spectrum Analyzer Adapter and license (required for viewing spectrum data and heat map)
		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
		Open slot for PCMCIA or CF Type II adapter
		AirMagnet supported wireless adapter

Patents: U.S. Patent No. 7,009,957, 7,236,460 and 7,130,289. 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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