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*About Wireless-Nets, Ltd.*

*Jim Geier, an independent consultant (Wireless-Nets, Ltd.), shares his tutorials, tips, news, and free downloads focusing on the implementation of wireless networks.*

## Featuring:

### Wireless Site Surveys



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## How to: Conduct a wireless site survey

With wireless systems, it's very difficult to predict the propagation of radio waves and detect the presence of interfering signals without the use of test equipment. Even if the system implements omni-directional antennas, radio waves don't really travel the same distance in all directions. Instead walls, doors, elevator shafts, people, and other obstacles offer varying degrees of attenuation, causing the RF (radio frequency) radiation pattern to be irregular and unpredictable. In addition, RF interference may be present that can impair wireless signal propagation. As a result, it's absolutely necessary to perform a wireless site survey to fully understand the behavior of radio waves within the operating environment before installing access points.

### Overall steps

Before getting started with a wireless survey, be sure to fully understand the steps. As an introduction, review my tutorial titled How-to Conduct a Wireless Site Survey. To view this tutorial, [Click here](#) or visit [www.wireless-nets.com/resources](http://www.wireless-nets.com/resources). This tutorial explains the steps you need to complete when performing a wireless site survey, which provides a good overview to those who have not received any applicable training.

### Details and tips

For a more in-depth understanding of conducting wireless site surveys, consider watching a recorded version of my recent webinar titled Wireless Site Survey Tips. To view this webinar, [Click here](#) or visit [www.wireless-nets.com/training/webinars.html](http://www.wireless-nets.com/training/webinars.html). In this webinar, I explain how to determine the optimum placement of 802.11b/g/n access points in multi-floor facilities and satisfy coverage requirements for elevators. In addition, I give tips on preparing for the survey and choosing tools. The tips I provide in the webinar are based on lessons I've learned when conducting dozens of site surveys in several different industries.

## Wireless site survey topics IN THE NEWS:

### **AirMagnet extends tool support for analyzing PCI Data Security Standard (DSS), version 1.2**

Support for version 1.2 of the DSS allows retail organizations to better leverage AirMagnet solutions to secure wireless networks in accordance with the industry's foremost standard for cardholder account security.

### **Airtight Networks announces plans to release 802.11n-aware intrusion detection system**

Airtight networks plans to release SpectraGuard Enterprise in mid-September 2008. the new release will include new two-radio sensors supporting 802.11a,b,g,n technologies.

### **Berkeley Varitronics Systems releases YellowFin WiMAX Analyzer**

YellowFin performs spectrum analysis (2.0 to 5.9 GHz) and WiMAX packet demodulation. Results are plotted to maps using a built-in GPS receiver.

### **VisiWave releases version 2.0 of their Site Survey software**

In addition to some other feature enhancements, VisiWave's version 2.0 software now makes use of a Wi-Spy spectrum analyzer as the basis for noise measurements when determining SNR.

For more news from the wireless industry, [click here](#) or visit [http://www.wireless-nets.com/resources/industry\\_news.html](http://www.wireless-nets.com/resources/industry_news.html)

## Implementation tips and tutorials

Click on the following links:

- *[How to: Choose the right spectrum for 802.11n deployments](#)*
- *[How to: Define minimum SNR for signal coverage](#)*
- *[How to: Improve wireless security with shielding](#)*
- *[How to: Identify wireless LAN deployment risks](#)*
- *[How to: Get the most from 802.11 multicasting](#)*
- *[How to: Define wireless network security policies](#)*
- *[How to: Sniff wireless packets with WireShark](#)*
- *[How to: Define wireless network requirements](#)*
- *[Beacon transmission rate impacts range](#)*
- *[WiBro and mobile WiMAX confusion](#)*

For more tips, [click here](#), or visit <http://www.wireless-nets.com/resources/tips.html>

You can [subscribe](#) and automatically receive tips as I post them to my blog.

## Developers' corner



With wireless networks, you can't depend on always having network connectivity. At some point, RF interference or coverage holes will interrupt wireless communications. As a result, when developing wireless application software, always consider what will happen if there is a loss in network connectivity. Keep this in mind as you write every line of code (seriously), and you'll find your resulting applications will be much more reliable.

## FREE WEBINAR -

### *Minimizing impacts of RF interference*

*December 10, 2008 - 1 to 2 p.m. EST (GMT-5)*

In this presentation, I'll explain RF interference impacts (and resolutions) of cordless phones, microwave ovens, and neighboring wireless systems on 802.11 wireless LANs. For more details or to register, [click here](#) or visit <http://www.wireless-nets.com/training/webinars.html>

## FREE DOWNLOAD -

### *VoWLAN applications and benefits*

Download Chapter 1, VoWLAN Applications and Benefits, of my book, *Deploying Voice over Wireless LANs*, free-of-charge at the following URL: [http://www.wireless-nets.com/resources/downloads/VoWLAN\\_C1.html](http://www.wireless-nets.com/resources/downloads/VoWLAN_C1.html)



### *Deploying Voice over Wireless LANs*

Published by Cisco Press

By Jim Geier

[Click here](#) for details

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## About Wireless-Nets, Ltd.

Wireless-Nets offers a wide range of independent consulting and training services for developing and deploying wireless network solutions.

Services include the following:

**System Deployment** - Services that assist IT organizations and system integrators with the design, installation, testing and operational support preparations of wireless networks.

**Product Development** - Services that assist product developers with the integration of wireless network interfaces into their products.

**Training** - Services that prepare IT organizations, system integrators, and product developers with the development and deployment of wireless network solutions.

For more details regarding Wireless-Nets' services, [click here](#) or visit <http://www.wireless-nets.com>

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