



## Security in the Wireless World

Assurix Seminars October 2006

David Lannin

*Finjan 'European Value Added Reseller of the Year 2005'*

# Background

- IT Security VAR and Solutions Integrator
- Personnel experienced within IT Security Industry since 1994
- Best of Breed Service & Product Portfolio
- Adopting Best Practice approach to IT Security Delivery
- Award winning solutions provider

# Industry Recognition



Finjan Award:

European Value Added Reseller of the Year 2005



CRN Award:

Technology Innovator of the Year 2004



Check Point Award:

Top Performing Partner 2003: Northern Europe

We Secure the Internet.

# Securing the Airspace

- Stealing Bandwidth
  - Misuse of bandwidth e.g. downloading illegal material or spamming
- Stealing Data
  - Personal or commercially sensitive data
- DoS Attacks
  - Service outages
  - Timed sensitive attacks
- Rogue Access Points
  - Set up by employees
  - Malicious intent

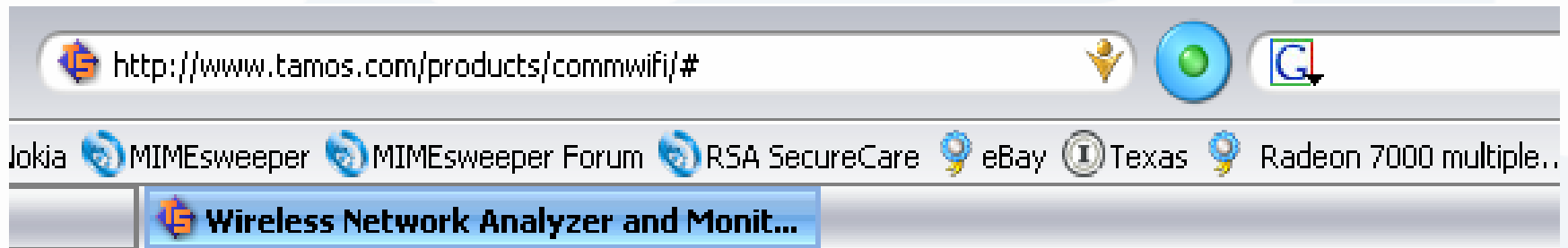


# WiFi Monitoring

- Wide range of tools available
- Easy to use and low cost
- Target WLANs and the connected PC/Laptop devices
- WiFi Hacking websites with detailed FAQ's
- How-To Guides on cracking WLANs



# CommView for WiFi



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## CommView® for WiFi

### Overview

CommView for **WiFi** is a powerful **wireless network monitor and analyzer** for 802.11 a/b/g networks. Loaded with many user-friendly features, CommView for WiFi combines performance and flexibility with an ease of use unmatched in the industry.

**\$499.00 or \$199.00**

[Add to cart](#)

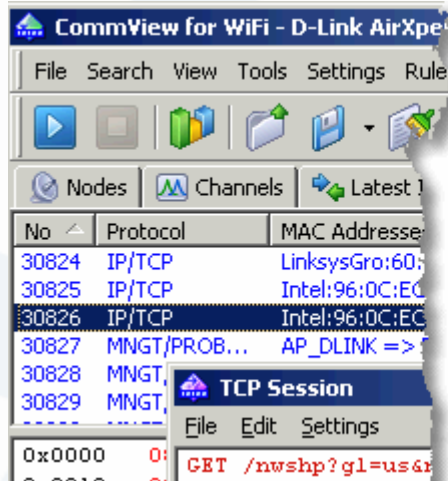
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# CommView for WiFi



Packets can be decrypted utilizing user-defined **WEP** or **WPA-PSK** keys and are decoded down to the lowest

Deputy Norman Gibson,  
Wayne County  
Sheriff's Department  
Internet Crime Unit

layer. With **over 70 supported protocols**, this network analyzer allows you to see every detail of a captured packet using a convenient tree-like structure to display protocol layers and packet headers. Additionally, the product

provides an opportunity for plugging in custom decoding modules. A **WEP key retrieval add-on** is available subject to terms and conditions.

**Very helpful!**

**Cost: \$199 - \$499**

# WI-SPY

Review: MetaGeek Wi-Spy 2.4 GHz Spectrum Analyzer | Tom's Networking - Mozilla Firefox

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http://www.tomsnetworking.com/2006/02/12/review\_wispy/

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## Review: MetaGeek Wi-Spy 2.4 GHz Spectrum Analyzer

Tim Higgins February 12, 2006 11:40

### Introduction



Shop for New Products

1. Wireless C Cable/DSL

# WI-SPY

## MetaGeek Wi-Spy 2.4 GHz Spectrum Analyzer

Summary	Suprisingly good, most inexpensive 2.4 GHz spectrum analyzer you can buy. - Consists of USB dongle and Win XP / 2000 application - Linux / MacOS software also available
Update	None
Pros	<ul style="list-style-type: none"><li>• Real RF Spectrum analysis for \$99</li><li>• Good detection range</li><li>• Recording and playback</li></ul>
Cons	<ul style="list-style-type: none"><li>• Misleading amplitude information</li><li>• Fixed amplitude range</li><li>• Coarse frequency resolution</li></ul>

When I first heard about a 2.4GHz spectrum analyzer for **\$99 bucks**, I figured someone must have slipped a decimal point. But it turns out that [MetaGeek's Wi-Spy](#) is real, does work, and can re Benjamin, with charge back to boot!

Cost: \$99

# eBay

The screenshot shows a Mozilla Firefox browser window displaying the eBay.co.uk website. The address bar shows a search URL for 'wi spy'. The page header includes the eBay logo, navigation links (home, pay, site map), and a user greeting for 'david\_lannin'. A banner for a 4.75% discount is visible. The search results section shows '0 items found for wi spy' and a red box highlighting a link to '6 items found for wi spy in eBay Shops'.

eBay.co.uk - wi spy items at low prices - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://search.ebay.co.uk/search/search.dll?sofocus=bs&sbrftog=1&from=

Customize Links CheckPoint Nokia MIMesweeper MIMesweeper Forum RSA SecureCare eBay Te

home | pay | site map Start new

Buy Sell My eBay Community Help

Hello, david\_lannin! (Sign out.)

4.75% off

Home > Buy > Search Results for 'wi spy'

All Items Auctions Buy It Now Classified Ads

wi spy All Categories Search

Search title and description

Search Options

Location:

European Union


Items within 200 miles of RG14 1PA

0 items found for wi spy

Get more results in other eBay areas:

shops 6 items found for [wi spy](#) in eBay Shops. Learn more

# eBay

shops  6 items found for [wi spy](#) in eBay Shops. Learn more about [eBay Shops](#).

Item Title	Price	Shop
 <a href="#">WI-FI - N - SPY FINDER</a>	£10.99 <small>Buy It Now</small>	<a href="#">Craze-e Price Trading</a>
 <a href="#">Wireless network &amp; CCTV camera finder - Wi-Fi n spy</a>	£11.50 <small>Buy It Now</small>	<a href="#">Eleanor's emporium</a>
 <a href="#">WI-FI - N - SPY FINDER</a>	£13.99 <small>Buy It Now</small>	<a href="#">jonesy's joy</a>
 <a href="#">WI-FI - N - SPY FINDER</a>	£14.99 <small>Buy It Now</small>	<a href="#">The Zigo Company</a>
 <a href="#">WI-FI n SPY FINDER DETECT WIRELESS HOT SPOTS &amp; CAMERAS</a>	£15.99 <small>Buy It Now</small>	<a href="#">ENGLISH BEAUTY</a>
 <a href="#">Wi-Fi and Spy Finder Rechargeable Detect Wi-Fi &amp; Camera</a>	£19.99 <small>Buy It Now</small>	<a href="#">ASSA Tech</a>

1 items found for [wi spy](#) from eBay international sellers

Item Title	Price	Bids	Country/Region
 <a href="#">WI-SPY USB 2.4 GHZ Spectrum Analyzer</a>	US \$98.95	-	United States



# Typical Wireless Vulnerabilities

- No/poor security using default SSID
- Untrained users creating their own WLANs
- Rogue AP's
- Lack of network monitoring
- MAC Address filtering and MAC Spoofing
- Weak Encryption
- Lack of physical boundaries



# Typical Wireless Vulnerabilities

- Unsecured holes in the network
- DOS Attacks
- Man in the middle attacks
- Unsecured WLAN clients
- War driving
- Easy to eavesdrop



# Complete Wireless Security

- Not just the Airspace
- Protect access to it and within it
- Users – They are who they say they are
- Systems – When on the WLAN, secure your device
- Data – Secure transmission of all data
- Approach to securing the Wireless LAN should be in line with Wired LANs



# Best of Breed Solutions



Thank You



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