

MIDWEST LAW & TECHNOLOGY CONFERENCE & EXPO

Lawyers on the Go: Tips, Tricks & Tools for Mobile Lawyering



Presented

by: **Jeff Beard** and **Nerino Petro**



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Lawyers on the Go: Tips, Tricks & Tools for Mobile Lawyering



- The myth of technology and the reality of technology are actually in synch.
- The promise of “wireless computing” has reached a point that is realistic and practical for the masses.
- What does this really mean for the “average “ lawyer?
- Does it still take a computer science degree to be able to take advantage of all this new wireless technology?

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The answer is an unqualified NO! Everyone can now take advantage of this technology.

- Why now?
 - *Price*
 - *Ease of Use*
 - *Standardization*
 - *Technological Advancement*

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- Wireless Technologies
 - IrDA (Data Transfer by Infrared Radiation)
 - RF (Radio Frequency)
 - 802.1x
 - 802.11a
 - 802.11b
 - 802.11g
 - Bluetooth
 - Cell Phone Data Networks

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What you can do:

- Create a network without network cables.
- Use your notebook anywhere there's a wireless access point.
- Print without cables.
- Increase ergonomics using wireless HID's, i.e. Keyboards, mice and headsets.
- Use your PDA to access data and the Internet.

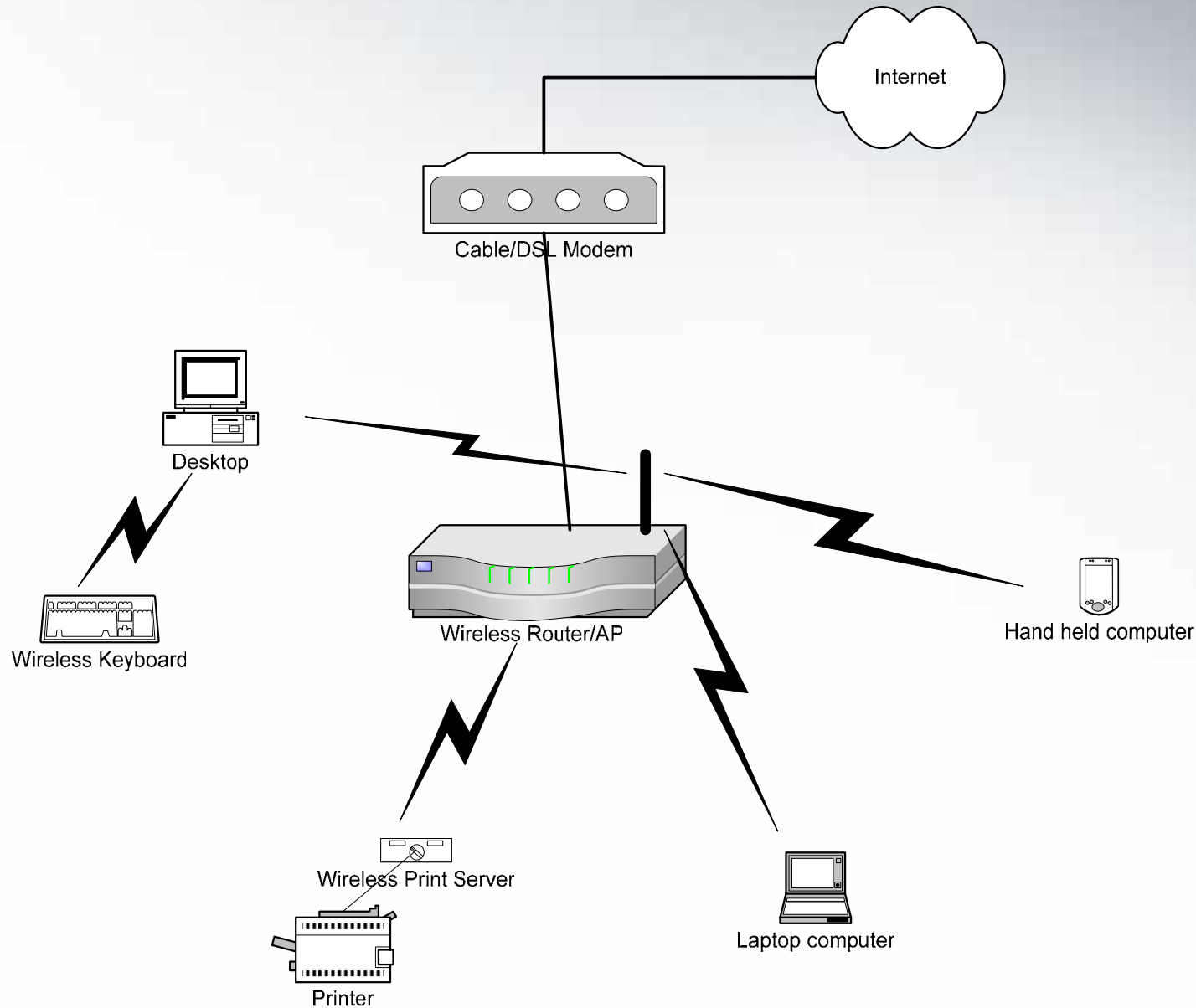
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What you can do:

- Access the Internet from public “Hot Spots.
- Transfer data to another PDA or Laptop.
- Truly become a Mobile Lawyer!

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What you need:

- Wireless access point to provide access to your network and internet connection or a Public Hotspot.



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What you need: Wireless network interface card

Desktop – Internal or USB.



Notebook - PC Card, USB or Integrated.

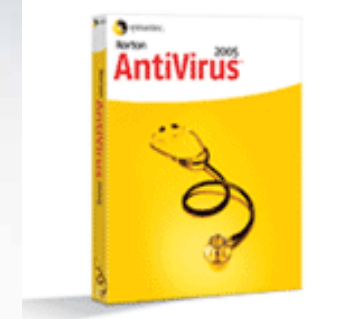
PDA – Compact Flash card or Integrated



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What you need:



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Peripherals that make life easier



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Peripherals that make life easier



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- Convergence devices
 - Combining cell phone and PDA with Internet connectivity.
- Wireless e-mail and internet access with a PDA



Silver



Carbon

screens simulated



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- AirCards give you cellular Internet access
 - Data plans are expensive
 - For now, expect dial-up modem speed access
 - Internet access where you have cell phone coverage
- Leverage Cell Phones with direct hookup
 - Similar to AirCards in use
 - Need cable and software
 - Works in a pinch, but still need expensive data plans



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Several resources for finding public Hotspots:

www.wifinder.com

www.hotspotlist.com

www.wi-fizone.org/zonelocator.asp

http://reviews.cnet.com/Hotspot_zone/4520-6659_7-726628-1.html?tag=dir

Wi-Fi Zone Finder:

Download Results:  [Excel Spreadsheet \(zoneLocator.xls\)](#)
 [Word Document \(zoneLocator.doc\)](#)

Search Returned 70 Results in 0.47 Seconds

Company (Detail)	Location	Street Address	SSID
225 Café	Chicago, IL	225 W Washington	HOT
Alley Dogs	Chicago, IL	3700 N Western	HOT
Alliance Francaise	Chicago, IL	810 N Dearborn	HOT
Amigos Grill	Chicago, IL	436 S Wabash	HOT
Best Western River North	Chicago, IL	125 W. Ohio	mbcwireless
Big City Tap	Chicago, IL	1010 W Belmont	HOT
Box Car Cafe	Chicago, IL	723 W. Wrightwood	HOT
CAFE AVANTI	CHICAGO, IL	3706 N SOUTHPORT	airpath
Café Gioia	Chicago, IL	24 E Congress Parkway	HOT
Chicago Downtown Courtyard	Chicago, IL	30 E Hubbard St	STSN
Chicago Downtown Residence Inn	Chicago, IL	201 East Walton Place	STSN
Chicago Embassy Suites Hotel	Chicago, IL	600 N. State St	STSN
Chicago Marriott Northwest	Chicago, IL	4800 Columbine Blvd	STSN
Chicago Renaissance	Chicago, IL	1 West Wacker Dr	STSN

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Examples of Milwaukee, Wisconsin Public Hot Spot Information from the Internet

- ***Independent Provider***
Provider info | Pricing info Free
- **Pere Marquette Park**
900 N Plankinton Street
Milwaukee WI
0.4 miles to location
- **Pere Marquette Park**
900 N Plankinton Street
Milwaukee
WI
US
- **Location Type:Public Space / Public Building** Web Site: [click to open](#)
- **Provider:Independent Provider**
SSID:MILWIFI Phone (sales):1
Contact location Phone (support):+1 Contact location
Hotspots Nationwide:1261 [\(see all\)](#)
Hotspots within 5 mi:3 [\(see all\)](#)

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Examples of Milwaukee, Wisconsin Public Hot Spot Information from the Internet

- ***Independent Provider***
Provider info | Pricing info Free
- **Cathedral Square Park**
520 E Wells Street
Milwaukee WI 53202
0.2 miles to location
- **Cathedral Square Park**
520 E Wells Street
Milwaukee
WI
53202 US
- **Location Type:Public Space / Public Building Web Site:**[click to open](#)
- **Provider:Independent Provider SSID:MILWIFI Phone (sales):1 Contact location Phone (support):+1 Contact location Hotspots Nationwide:1261 [\(see all\)](#) Hotspots within 5 mi:3 [\(see all\)](#)**

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Examples of Chicago, Illinois Public Hot Spot Information from the Internet

- **Daley PlazaWest**
Washington Street & North Dearborn Street
- **Chicago, Illinois 60601 US**
- **Independent Provider**
[Provider info](#) **802.11b Wi-Fi FREE**
- **Grind House Coffee**
307 South Halsted
- **Chicago, Illinois 60661 US**
- **Independent Provider**
[Provider info](#) **802.11b Wi-Fi FREE**

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- In the “Wild”
- Public Hot Spot Dangers:
 - Designed for ease of use, not security.
 - Most likely won’t allow any security.
 - Danger of “eaves dropping” on your system.
 - Vulnerable to all the usual dangers like worms and virus.

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Practicing “Safe” Wireless Computing in the “Wild.”

- Use your Firewall and Anti-Virus and keep updated.
- Consider using encryption for your e-mail and digital signatures.
- Disable your wireless card’s ad-hoc option.
- Disable file and printer sharing.
- Disable your wireless card if you’re not working online.
- Be aware of anyone looking “over your shoulder” as you enter your passwords.
- Keep your OS updated with the latest patches and security updates.
- Consider using VPN software and a VPN endpoint if you have them.
- Don’t provide your credit card number unless the site is protected by Secure Socket Layer (SSL). These sites are identified by https// in their URL.

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Practicing “Safe” Wireless Computing in the Office or Home:

- Change the standard SSID and Administrator Password of your Router/Access Point.
 - Use “Strong” characters (mix upper/lower case, add numbers & symbols)
- Enable WEP encryption for 802.11b (128bit if possible). For 802.11g use WPA
 - (WPA-PSK = “WPA Pre-Shared Key”, is a much easier option for home use).
- Limit the number of machines that can access the network to the number you have. (# of connections)
- Disable SSID broadcast if possible.
- Change the default IP address of your Router.
 - E.g., from 192.168.1.1 to 192.168.115.1, or
 - From 192.168.1.1 to 192.168.1.100
 - **Don't** change the “192.168.” portion, which is required to identify your network IP addresses as a “private” network.

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- Place the access point in the center of your building/office/home if possible
 - The closer to an outside wall that you place it, the further the range that someone can pick-up a signal.
- Select infrastructure mode
 - This requires the use of the access point by each computer (vs. ad hoc which allows computers to communicate directly).
- Check the company website for the latest drivers and updates before starting.
- Limit access by specific MAC address.
- Consider disabling DHCP and assigning static IP addresses.

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- In other words, do anything and everything you can to make it more difficult for others to find and break into your network.
- The more secure your wireless network, the more likely wardrivers and hackers will move on to easier prey:

Your WiFi Network	Your Neighbor's
SSID: Changed & disabled	SSID: linksys (default)
Changed to Strong admin password	Default password: admin
WPA-PSK with AES encryption enabled	No encryption, wide open
MAC Filtering On	No restrictions
# of connections limited to 2	Default = 50 connections
Router IP address: changed to 192.168.115.1	Default Router IP address: 192.168.1.1

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Things to remember:

- 3 Key Factors to wireless technology
 - Range
 - Transmission Method
 - Speed
- Practice “Safe” Wireless Computing

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Questions?



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Profile: Nerino J. Petro, Jr., Attorney

Attorney Nerino J. Petro, Jr. is a practicing attorney and legal technologist in Loves Park, Illinois. He formed CenCom, a division of Centro, Inc. in 1994 to provide legal technology consulting to lawyers in Northern Illinois. He recognized that small law firms could leverage modern legal technology to maximize their capabilities.

A 1988 graduate of the Northern Illinois University College of Law, Mr. Petro adopted PC technology early in his practice to help meet his clients needs. Since 1988, Mr. Petro has worked with technology service providers in the imaging, hardware and software computer fields. Mr. Petro is an Authorized Independent Consultant for TimeMatters® case management software and Billing Matters® time and billing software, as well as an authorized reseller of PCLaw® and TABS® time and billing software, and Practice Master® case management software.

Mr. Petro is past chair of the Winnebago County Bar Association (WCBA) Business Committee, having responsibility for legal technology issues and training and is a member of the WCBA Standing Committee for Legal Technology. Mr. Petro is a member of the Illinois State Bar Association's Committee on Legal Technology and a regular contributor to its newsletter.

Mr. Petro provides training and support to lawyers and their staff on legal software and provides consulting, installation and customization services for law offices in Northern Illinois and Southern Wisconsin.



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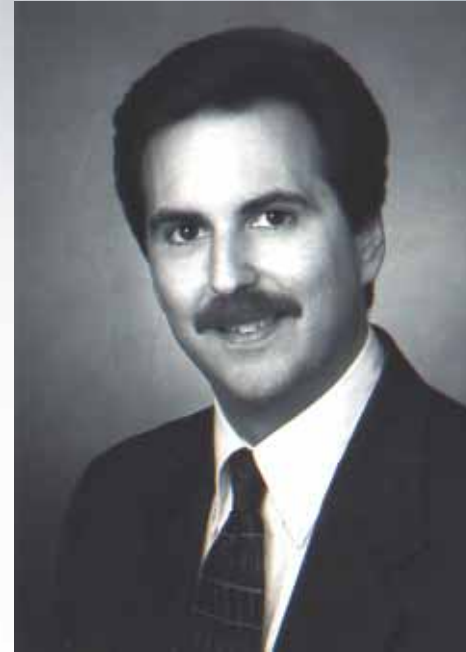


Profile: Jeffrey J. Beard, J.D.

Jeffrey Beard is the Legal Services IT Manager for Caterpillar Inc.'s corporate counsel division. He also serves on the ABA TECHSHOW® 2005 Advisory Board, and is a frequent national author and presenter on legal technology and practice management topics. Mr. Beard is a veteran legal technologist, having consulted with over 100 law firms and corporate counsel departments on a wide range of technology and business management needs. Prior to joining Caterpillar, he served with Quarles & Brady, LLP, a national firm of 400+ attorneys.

This wealth of experience covers the entire spectrum from the needs of the solo practitioner to the more complex issues confronted by large firms and corporate legal departments. Mr. Beard has worked with law firm management on strategic planning, practice support, project management and implementation of numerous law firm systems. Among many others, these include web-based technologies, litigation support, mobile technology, time and billing, accounting, case management, document management, knowledge management, and document assembly solutions.

Mr. Beard also designed and operates the highly acclaimed "LawTech Guru" site (www.lawtechguru.com). This popular weblog is dedicated to alerting and educating the legal market on savvy Internet and legal technology use, mobile computing, strategic planning, and law practice management issues.



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