



Welcome to the Freedom of Portable Wi-Fi

Intel® My WiFi Technology:
Synch, Share, Show
& Print on the Go

Wi-Fi Gets Personal

Wi-Fi is rapidly reaching into the world of consumer electronics (CE). Everything from smart phones, MP3 players, and digital cameras to DVRs and HDTVs are jumping on the wireless bandwagon, and there's much more coming.

Imagine turning on your notebook computer and being able to connect effortlessly and wirelessly to your camera, printer, HDTV, MP3 player—even a remote-controlled robot.

Now imagine that it harnesses the speed and range of familiar Wi-Fi technology on the go, in a new, personal form to:

- **Synch** Wi-Fi enabled devices like media players or digital cameras.
- **Share** content among your Wi-Fi enabled devices anywhere.
- **Show** content from one Wi-Fi enabled device on another Wi-Fi device. Instantly move pictures from a digital camera to a digital frame. Show a streaming video from the Internet on an HDTV.
- **Print** directly to a Wi-Fi enabled printer at home or the office.

These abilities and many more are coming, and their name is Intel® My WiFi Technology.

For more information, visit:
www.intel.com/go/wifi

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Disclaimers

Intel® Ultimate N WiFi Link 5300: Up to 2x greater range enabled by 3x3 Draft-N implementations with 3 spatial streams. Up to 450 Mbps of receive bandwidth based on the theoretical maximum bandwidth enabled by 3x3 Draft-N implementations with 3 spatial streams in combination with a 3 spatial stream Access Point. Actual wireless throughput and/or range will vary depending on your specific operating system, hardware, and software configurations. Check with your PC and access point manufacturer for details.

Intel® WiFi Link 5100: Up to 5x bandwidth increase or up to 300 Mbps of receive bandwidth based on the theoretical maximum receive bandwidth enabled by 1x2 Draft-N implementations with 1 transmit spatial stream and 2 receive spatial streams. Actual wireless throughput and/or range will vary depending on your specific operating system, hardware, and software configurations. Check with your PC and access point manufacturer for details.

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Untether Your Digital World

Intel® My WiFi Technology unleashes your content from Wi-Fi enabled devices, making wireless communication between devices a snap. Now you can move freely among the islands of data on your devices.

- No more big, scary octopus of wires.
- No more fumbling with media cards.

You don't even need a Wi-Fi network. Your Intel® Centrino® 2 processor technology-based notebook with Intel My WiFi Technology is your own portable Wi-Fi network. Your notebook connects to any Wi-Fi enabled device without accessing a Wi-Fi access point to create your own secure, personal conversation:

- **Easily connect any Wi-Fi enabled device**—cameras, printers, TVs—to your notebook at home, the office, or on the road.
- **Simple-to-use software**—easily and securely controls which devices are allowed to connect.
- **Let devices do the work**—you enjoy the instant results. No more waiting.

So go on, view those pictures from your camera on the Wi-Fi enabled big-screen TV, shoot them over to the printer, and set them as wallpaper on your notebook. Or dream up something else—Intel My WiFi Technology makes it easy.

**This is your Wi-Fi future—
and Intel My WiFi Technology delivers it.**

Icons Used in This Book

Throughout this little book, you'll see symbols that draw your attention to special information:



Tells you that we are zooming in on details about how Intel My WiFi Technology works and what it can do for you.



Indicates special tips and notes that can help you adopt Intel My WiFi Technology more smoothly.



Identifies technical information for readers who want to know the nitty-gritty behind what makes Intel My WiFi Technology work.

Synchronize Your Life

Turn on your notebook from your deck chair, and connect your Wi-Fi enabled digital camera to it. A couple of clicks, and you have copies of your vacation photos to build a slideshow.

The flexibility of Intel My WiFi Technology allows you to be connected to the Internet at the same time, so you can upload them directly to your Facebook* page. Or show them on a Wi-Fi enabled widescreen TV. Download some MP3s from the Internet to add your own soundtrack.

Send your slideshow to a Wi-Fi picture frame in the family room. Make some high-quality prints on your printer, or e-mail them to a friend. All this and more is easy to do, with no wires.

Wi-Fi Enabled Everything

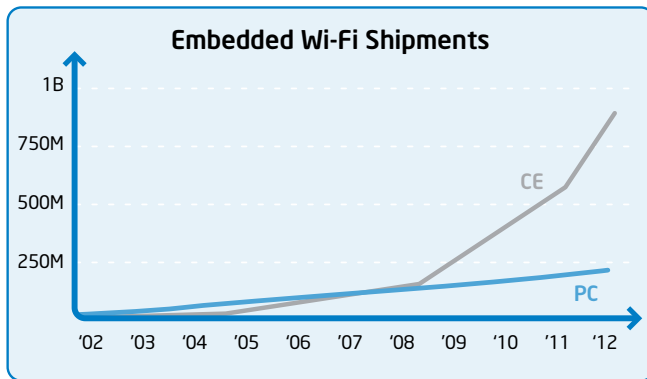
Wi-Fi changed the way we connect to networks and the Internet. Today, Wi-Fi delivers high-speed wireless Local Area Network (LAN) connectivity to more than 223 million homes and 127 million Wi-Fi hotspots worldwide,¹ and over 97% of laptops² ship with Wi-Fi integrated.

¹ Source: ABI Research, Q3 2007.

² Source: Intel Corporation.

Electronic devices of all shapes and sizes are incorporating Wi-Fi.

- **MP3 player** manufacturers are adding Wi-Fi to enable direct access to online music shops.
- **Digital camera** manufacturers are embedding Wi-Fi as a way to compete against camera-enabled mobile phones.
- **Handset** manufacturers are adding Wi-Fi to enable VoIP calls and to provide more bandwidth for new features.
- **TV and DVR** manufacturers are embedding Wi-Fi as a means to download electronic program guides and provide direct access to Internet content like YouTube*.



Source: ABI Q3 '07

Figure 1. *Wi-Fi is being built into more consumer electronics (CE) devices than ever, with numbers approaching one billion Wi-Fi-connected devices by 2012.*

Intel® My WiFi Technology in Action

Karen and Tom are meeting friends at a sidewalk cafe. While they wait, Karen downloads some MP3s. There's no need for the cable, since she can synch her Wi-Fi enabled MP3 player with her notebook using Intel My WiFi Technology.

What is Intel My WiFi Technology?

Wi-Fi gave us freedom to connect to the Internet without wires, and now Intel My WiFi Technology takes that freedom one giant step further. This new capability creates a new personal network around your notebook that includes all kinds of electronic equipment:

- **Familiar technology.** Intel My WiFi Technology uses the same Wi-Fi technology you're already using.
- **Easy to use.** Point-and-click connections link you to devices, independent from your Internet connection.
- **Fantastic results.** Because Intel My WiFi Technology uses Wi-Fi, it can handle the files and distances you're already used to on your Wi-Fi network.

Intel My WiFi Technology builds a Personal Area Network (PAN) around your notebook that lets it synch and communicate with your Wi-Fi enabled devices. Those connections can happen at the same time as your connection to the Internet or other network, using the same Wi-Fi network adapter. There's no extra hardware needed.

Intel® My WiFi Technology in Action

Chloe finds an important document she needs to print from the Internet before she heads to class. Her notebook is connected to the university's network but her printer is not. No problem. From her dorm room, she prints directly to her Wi-Fi enabled printer while staying connected to the Internet via the university's network.

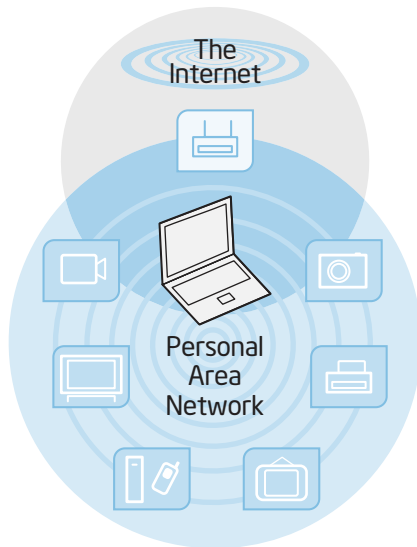


Figure 2. With Intel® My WiFi Technology, your notebook creates a separate Wi-Fi network just for devices, using the same Wi-Fi network adapter as your connection to the Internet.

How is Intel My WiFi Technology Better?

“So,” you may be thinking, “that’s great that it uses the same Wi-Fi technology I already use, but then, why do I need something new?” The main difference is that Intel My WiFi Technology lets your Wi-Fi enabled CE devices connect directly and securely to your notebook without having to go through a Wi-Fi network access point. Your Intel Centrino 2 processor technology-based notebook is your own portable Wi-Fi network. Yet, you can simultaneously be connected to a Wi-Fi access point and the Internet.



Two Conversations at Once

With conventional Wi-Fi, if you want to connect your laptop to a device like a printer or camera that’s not already on your Wi-Fi network, you have to disconnect from the network first, then create an ad hoc network. Then you can connect to the device. If you want to connect back on the network, you have to disconnect from the device and then reconnect to the network—it’s not really worth the effort. With Intel My WiFi Technology, you can be connected to both networks at once. Life is easier, with no need to disconnect and reconnect.

Bypassing the need for a network access point opens up a world of simplicity and convenience for your electronic devices, without sacrificing security. Your notebook handles all the flight arrangements, and you can just focus on the things you got the devices to do in the first place.

Intel® My WiFi Technology in Action

Aaron and Claudette are at a customer site, working on their biggest deal of the year, delivering a marathon set of presentations. As they sit around the conference table far into the afternoon, they want to be able to send instant messages and files to each other, but they don't have access to the customer's onsite network.

They connect to each others' laptops using their own secure, high-speed Intel My WiFi Technology network, and they can now collaborate easily. Good news—they get the contract.



Figure 3. The Intel® My WiFi Technology personal area network doesn't have to go through the added complexity of a network router, making your life easier.

Robust Wi-Fi security is built into Intel My WiFi Technology to provide the same level of protection for your CE devices as you demand for your computer. You get new levels of convenience without sacrificing security.



Fully Baked Security

Intel My WiFi Technology inherits the same mature security capabilities of conventional Wi-Fi, including measures you may already be using, like WPA* (Wi-Fi Protected Access) or WPA2*.

Intel® My WiFi Technology in Action

Lloyd and Judy are watching their granddaughter take her first steps on a video they just downloaded, and the miles seem to melt away. Their notebook computer screen doesn't seem fitting for the occasion, and in a burst of inspiration, Lloyd uses Intel My WiFi Technology to directly connect the notebook to their Wi-Fi enabled home theater setup.

They watch the rest of the event happily on the big screen, with full stereo sound for the gurgles and giggles. It's almost as good as being there, and since they captured the video on a DVD, they can show it off to their friends later as well. For good measure, Judy captures a still-motion action shot and sets it as wallpaper on her Wi-Fi enabled cell phone.



Making the Connection Easy

The computer industry has already taken the headache out of connecting devices to Wi-Fi networks using a technology called Wi-Fi Protected Setup* (WPS). It lets devices quickly and securely connect to Wi-Fi networks using a PIN or push button. Because Intel My WiFi Technology inherits this capability from Wi-Fi, connecting devices that support WPS to your Intel My WiFi Technology network is a breeze.

Mobilize Your Wi-Fi

It's time to get behind the wheel and take a test drive of Intel My WiFi Technology in action. Feel the performance of your Intel Centrino 2 processor technology-based notebook as it creates a powerful, portable Wi-Fi network that can connect up to eight Wi-Fi enabled devices. No access point required. These devices can even include other notebooks if you like, as well as smaller computers such as netbooks and mobile Internet devices.

And since many devices—from iPhones* to digital cameras—have data storage on them, you can use Intel My WiFi Technology to manage where your files get stored. All within your own private wireless world.

Intel® My WiFi Technology in Action

Alan has a home video projector installed on the ceiling of his entertainment room. It's connected to the audio/video system. Alan and his friends sit on the couch using his notebook with Intel My WiFi Technology, and they set the projector to Wi-Fi input. He shows photos of his vacation on the big screen, plays a YouTube video, and then surfs the Internet—all on a 100-inch screen from the comfort of the couch.*



Making Impromptu Connections

To connect your computer with someone else's, you both used to need access to the same network. When there was no network available, you could set up an ad-hoc connection. Unfortunately, that was pretty complicated, and it didn't have good security options, so most people never made use of this ability. Intel My WiFi Technology lets you forget about those complications.

Intel® My WiFi Technology in Action

Ed wakes up and looks at the clock. It's 3:00 a.m., and he could swear he heard something outside his window. Opening the lid of his notebook computer, he takes a look at the software that came with the remote-control webcam he recently set up (it was easy—no wiring or complicated setup).

He sees a fat raccoon pawing through the trash. Nothing that needs to be dealt with right now, but he half-seriously wonders about adding a Wi-Fi robot dog to the security system. Smiling, he goes back to sleep.

How Do I Use Intel My WiFi Technology?

We've talked a lot about what kinds of things you can do with Intel My WiFi Technology. Now let's turn to what it actually looks like when you're using it. The main software you'll use is a very user-friendly application called Intel® My WiFi Utility, which is included in all Microsoft Windows Vista* notebooks that support Intel My WiFi Technology.



Figure 4. Intel® My WiFi Utility is an easy-to-use point-and-click interface.

The software is simple and easy to use, but powerful enough to manage your personal network. For anyone who has used Wi-Fi connection software on their computer to connect to a Wi-Fi hotspot, Intel My WiFi Utility³ will seem very familiar:

- **View connected Wi-Fi enabled devices around you.** Intel My WiFi Utility gives you a central view of the devices in your PAN.
- **Manage Wi-Fi PAN connections.** You can choose to allow a device to connect, refuse entry, or prevent the device from appearing.
- **Simplify connections.** Intel My WiFi Technology takes care of all the connection details, like security and IP addresses.



Support for 802.11 b/g Wi-Fi Networks

Intel My WiFi Technology lets you use common Wi-Fi network technologies, including 802.11 b and 802.11 g. That flexibility lets the technology take maximum advantage of the equipment and devices you already own, as well as future devices that you may buy as they become available.

³ See the Intel® My WiFi Technology product help for more information on how to use the Intel My WiFi Utility software.

Intel® My WiFi Technology in Action

Darius is a college student whose primary network access is the university network. He isn't permitted to connect any of his Wi-Fi enabled devices to this network, nor does he have permission to install his own Wi-Fi access point in his dorm room. No problem—his Intel Centrino 2 processor technology-based notebook with Intel My WiFi Technology creates the Wi-Fi network Darius needs to connect his personal CE devices.

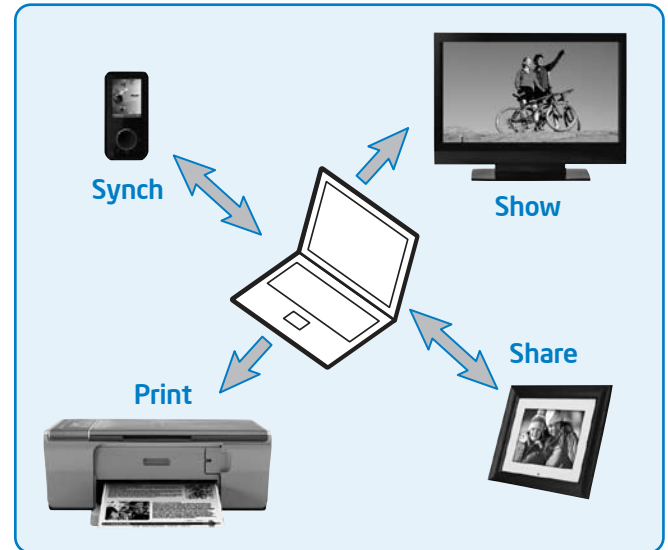


Figure 5. Intel® My WiFi Technology anchors the center of your digital world, letting you synchronize, share, show, and print content with devices from leading consumer electronics manufacturers.

What Do I Need to Use Intel My WiFi Technology?

An Intel Centrino 2 processor technology-based notebook with the Intel® WiFi Link 5100 or Intel® Ultimate N WiFi Link 5300 onboard is all you need. Together, they're optimized for the best Intel My WiFi Technology experience. Prepare to see them in action at retailers everywhere.



What Makes the Magic

The magic behind Intel My WiFi Technology is a combination of hardware and software that is included in upcoming generations of notebooks based on Intel Centrino 2 processor technology. Because both the conventional Wi-Fi network and the Wi-Fi PAN share the same network adapter, there's nothing extra for you to buy.

Together with the wide variety of CE devices that major manufacturers are enabling, your notebook with Intel My WiFi Technology will become an integral part of your digital world.

A New Kind of Freedom

Intel My WiFi Technology enables the freedom and convenience that comes from having your content standing by where and when you need it.

It helps you get more out of all the rich multimedia devices and applications you already use, and promises exciting future possibilities for Wi-Fi enabled CE yet to come.

Prepare for the Future with Intel My WiFi Technology.

Be ready for your Wi-Fi enabled CE future with new innovations, new capabilities, and new connections. The next generation of notebook computers based on Intel Centrino 2 processor technology with the Intel WiFi Link 5100 or Intel Ultimate N WiFi Link 5300 adapter will include Intel My WiFi Technology as a standard feature.

Intel My WiFi Technology FAQs

▪ What does Intel My WiFi Technology offer me?

Using this new Wi-Fi capability, you can easily connect Wi-Fi enabled CE devices to your own personal area network that works separately from—but in tandem with—a conventional Wi-Fi network.

▪ Does Intel My WiFi Technology replace conventional Wi-Fi?

No. Intel My WiFi Technology and the Wi-Fi you use to connect to the home or office network and the Internet complement each other, with each one doing what it does best, for a better user experience.

▪ What range and speed can I expect from Intel My WiFi Technology?

Intel My WiFi Technology uses 802.11b or 802.11g Wi-Fi technology, with the same range and speed you get from a conventional Wi-Fi network.

▪ What equipment do I need to use Intel My WiFi Technology?

A notebook computer based on Intel Centrino 2 processor technology running Microsoft Windows Vista will include all the hardware and software you need to get up and running quickly using Intel My WiFi Technology.

Glossary

Access Point (AP). A device that distributes Wi-Fi signals to and from a wireless local area network.

Consumer Electronics (CE). Electronic equipment used primarily for non-business purposes such as entertainment and communications. Examples include cameras, music players, televisions, and navigation devices.

Intel My WiFi Technology. A capability built into Intel Centrino 2 processor technology that creates a Wi-Fi PAN separate from the Wi-Fi LAN, using the same wireless networking hardware and offering all the range and speed of Wi-Fi.

Local Area Network (LAN). A data network that covers a relatively small geographic area, such as a building or cluster of buildings, typically measured in feet/meters. Wi-Fi is a LAN technology.

Personal Area Network (PAN). A private network made to connect a notebook computer with other devices. Intel My WiFi Technology is a wireless PAN technology.

Wi-Fi. The set of local-area mobile wireless technologies based on the 802.11 standard, with a range of up to a few hundred feet/meters from an access point.

Wi-Fi Protected Setup (WPS). A standardized method for securely configuring Wi-Fi devices to a LAN or PAN that simplifies the process.

Unleash the Contents of Your Life

Your Intel Centrino 2 processor technology-based notebook with Intel My WiFi Technology delivers the personal networking freedom to get more out of all your Wi-Fi enabled CE devices:

- **Unleashes your digital content** from and to any Wi-Fi CE device instantly.
- **Eliminates using cables** between your notebook and CE devices.
- **Allows your notebook to be connected** to the Wi-Fi LAN and Wi-Fi PAN simultaneously.
- **Transforms your Intel Centrino 2 processor technology-based notebook** into a portable, on-the-go Wi-Fi network.
- **Connects with any Wi-Fi enabled device**, even without a Wi-Fi LAN (access point).

Intel My WiFi Technology lets the power and convenience of Wi-Fi reach into more of the places where we live, work, and play.

Welcome aboard your Wi-Fi future.

For more information, visit:
www.intel.com/go/wifi



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