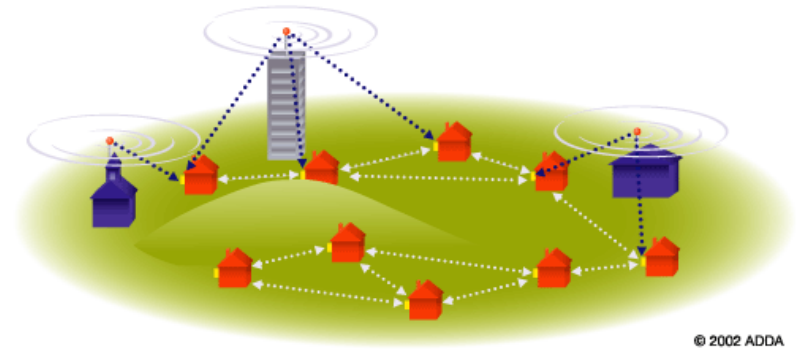




EtherLinx Communications Inc.

July 15, 2007

- **Company Profile, Founder Profile, Corporate Vision & Company Mission**
- **Product positioning, offering and roadmap**
- **How it works**
- **Value Proposition**
- **Technologies and Differentiations**
- **EtherLinx Lower Costs**
- **EtherLinx Technology Security Features**
- **Comparison Features**
- **Solutions**
- **Consulting Services**
- **Applications**
- **In Conclusion**





EtherLinx Communications Inc.

Company Profile

Founded: February 2000 ; Privately Held

Status: EtherLinx legacy wireless broadband solutions have been successfully implemented and industry proven with over 6 years of numerous domestic and international deployments world wide.

EtherLinx is currently moving into Phase IV of production and deployment solutions for Rural / Metro America, Asia, Europe and other Developing Nations where “Low Cost” broadband is needed. The next generation of Secure Signal Radio™ products now have been designed and are currently being put into the production process for scheduled 2007/2008 deployment and co-operative production in Vietnam and South East Asia and South America. WiMAX solutions are also being evaluated and ECI plans to ship complimentary Secure Signal Radio™ WiMAX product that will be based on the final 802.16 IEEE Standard and complying chipsets.



EtherLinx Communications Inc.

Founder Profile

Layne Holt, the founder of EtherLinx Communications is a established entrepreneur with significant experience in computer hardware, software, and networking technologies. Prior to founding EtherLinx, Layne served as the President of Data System Services, where he developed designed and manufactured the WLAN products that are the basis for the EtherLinx products that are produced today.

He has more than twenty years experience with technology companies including founding several companies, including Tune Rite Inc, Online Management Information Systems (O.M.I.S.), Point of Sale Systems, Online Business Information Systems, and Data Systems Services. In addition Layne has held key management roles with firms such as Lockheed, Ball Corporation, Franklin Electric (PPD), Trio-Tech International and others.



The EtherLinx Vision

A world where every individual has access to affordable high speed broadband on all platforms eliminating the "Digital Divide" world wide.

Company Mission

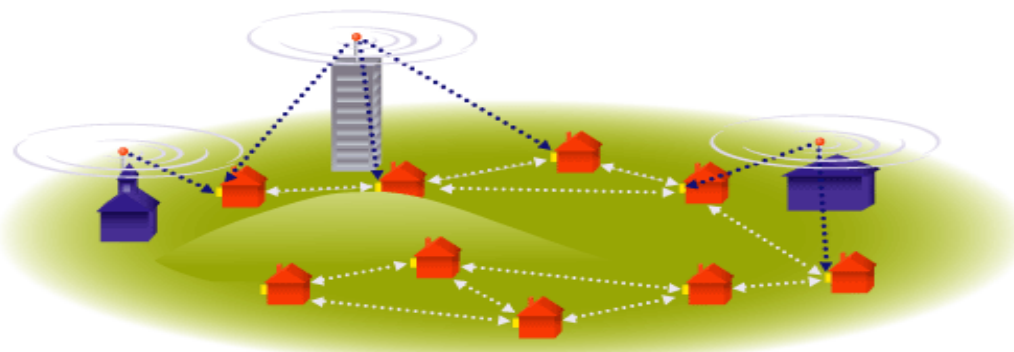
Deliver to our customers technology that enables the rapid and cost effective deployment of broadband solutions while satisfying business requirements and the success of all stakeholders in this global mission.

"EtherLinx has Tomorrows Wireless Solutions Today"





EtherLinx Select Press Coverage



© 2002 ADDA

The New York Times
ON THE WEB

2 Tinkerers Say They've Found a Cheap Way to Broadband

By JOHN MARKOFF

CUPERTINO, Calif., June 7 — Anyone looking for the next big thing in Silicon Valley should stop here at Layne Holt's garage. At the core of their plan is the inexpensive wireless data standard known as Wi-Fi or 802.11b, which is already shaking up the communications industry, threatening to undermine the business plans of cellular phone companies by offering a much cheaper method for mobile access to the Internet.



Wireless Broadband's Holy Grail?

Tiny start-up could drive big phone, cable companies into extinction.

By Jim Goldman, Tech Live Silicon Valley bureau chief

CUPERTINO, California -- In a small garage just six blocks from the one where Apple Computer got its start another revolution may be unfolding ...



High-speed Net access goes wireless

By Business Writer: Francine Brevetti

LAYNE E. HOLT and John Furrier missed the turnoff to downtown Oakland because they were absorbed on a cell phone conference call with entrepreneurs from Stockholm, Paris and London who wanted to learn more about EtherLinX technology. EtherLinX Communications delivers broadband access through Wi-Fi technology -- a technology that until now has been used to deliver signals only for very short distances.

wireless.

REVIEW



Aerial Assault

Chris Sewell

Wi-Fi's emergence was enough to at least temporarily scare the 802.11-bejesus out of major wireless carriers that viewed the technology as a threat to their 3G investments. But now — even before the paint on the new house of wireless broadband has dried — Campbell, Calif.-based EtherLinx and its co-founders, Layne Holt and John Furrier, have upped the ante on carriers once more, introducing a wireless solution that some insiders say could mount an assault on large cable operators and phone carriers, and perhaps render 3G obsolete.



WNN Wi-Fi Net News DAILY REPORTING ON WIRELESS DATA NETWORKING

*Daily reporting on Wi-Fi and wireless networking, including IEEE 802.11a and 802.11b
by Glenn Fleishman*

EtherLinx Answers Questions

EtherLinx made a big and unexpected public unveiling in June 2002 when *New York Times* veteran staff writer John Markoff put them on page A1. In the article, Markoff described how the two founders in a garage a few blocks away from the one in which Apple's Steve Jobs and Steve Wozniak built early computers had a revolutionarily priced wireless product that combined some aspects of mesh networking with long range point to point and in-home Wi-Fi access.



Future not so bright for telecoms

By Kevin Maney, USA TODAY

But soon, Wi-Fi will be able to carry data even faster — and farther. A start-up called EtherLinx has come up with a way to send Wi-Fi signals up to 20 miles. The developments make Wi-Fi look like it could become a serious contender in the business of wireless data and phone calls and could possibly match many of the capabilities of so-called 3G networks that are being built by major wireless companies such as Sprint and British Telecom.

economicprincipals.com

by **David Warsh**

The first story was news of a new wireless broadband antenna developed by two inventors in a Cupertino garage. In fairly short order, the device could threaten the cable and telephone industries — and provide enormous stimulus to the computer industry and everyone whose business depends on bandwidth.



Wireless Data In the Great Outdoors

By David Hakala, *VARBusiness*

Another firm taking a software approach to NLOS is EtherLinx Communications. Software engineers Layne Holt and John Furrier developed Smart Spectrum software to replace the firmware of inexpensive 802.11 dual-radio cards. "Decoupling firmware from hardware is key for ISPs," Furrier says. "The cost of radios will keep coming down as they become basically a box for [software] intelligence. This gives ISPs more margin between deployment costs and service charges."

Hot spots, cool trend

The Wi-Fi revolution is spreading like digital wildfire.

By Si Dunn and Connie Dunn

Chaotic frontier

Cupertino, Calif.-based EtherLinX recently has made headlines by tinkering with Wi-Fi's standards. It has developed a way to extend the system's radio range from about 400 feet to a stunning 20 miles. Using a technology known as "software-designed radio," users will be able to attach an inexpensive repeater antenna to the outside of their houses and get hooked up to an ISP via Wi-Fi. If successful, EtherLinX version of Wi-Fi could become the primary means for home users to access the Internet.



Wi-Fi Coming To A Coffee Shop Near You?

By David Louie

Layne Holt is developing a Wi-Fi network that will blanket all of Campbell to give users the speed they crave. EtherLinx has figured a way to do point-to-point links up to 50 miles. The antennas are no larger than the ones commonly used for satellite TV reception. It would give wireless Internet service to wider areas than a single cafe or store.



FOX NEWS channel

TODAY'S TOP STORIES :: OPINION :: FNC TV :: FOXFAN

YOUR WORLD w/NEIL CAVUTO

Updated: 11-19-04 5:01pm ET

SEARCH GO

Plus, could cheap access to broadband make EtherLinx the next big thing in Silicon Valley and propel Layne Holt and John Furrier to Bill Gates and Paul Allen status?



Online Communities
Asia Pacific Network For Education



APEC Cyber Education Corporation



A small USA company known as EtherLinX is already beginning to attract serious attention from both government officials and corporate executives who are interested in last-mile solutions for high-speed Internet access. Because of the staggering costs of wiring the nations homes for high-speed networking only 7%, or 7.5 million homes have high-speed Internet access, according to a February report from the Federal Communications Commission.



Like FM radio, EtherLinX wireless broadband access should be available just about anywhere – at home, in a car or at the beach. But unlike radio, this technology allows for two-way communication making it perfect for wireless broadband Net access. And since it's wireless, the easily installed equipment can reach even the most remote rural areas, opening broadband to the estimated 90 percent of the nation that still can't get it.



NEWS.COM SPECIAL REPORT

NOTHING BUT AIR

Telecom: Is Wi-Fi the missing link?

By **John Borland**

Staff Writer, CNET News.com

February 4, 2003, 4:00AM PT

Scrambling atop the roof of a Oakland, Calif. Office building, John Furrier Squinted like a surveyor from behind his company's wireless antenna, trying to Figure out exactly where it pointed.

EtherLinx's co-founder was drawing a bead on a distant office that used his start-up's technology, receiving a fast Internet connection from a transmitter the size of a Spiral notebook. As a pair of prospective clients awaited an ad hoc demo, he told them That they too could create their own broadband ISPs, competing against the phone companies with barely any start up costs.

TV Coverage – EtherLinx as seen on TV

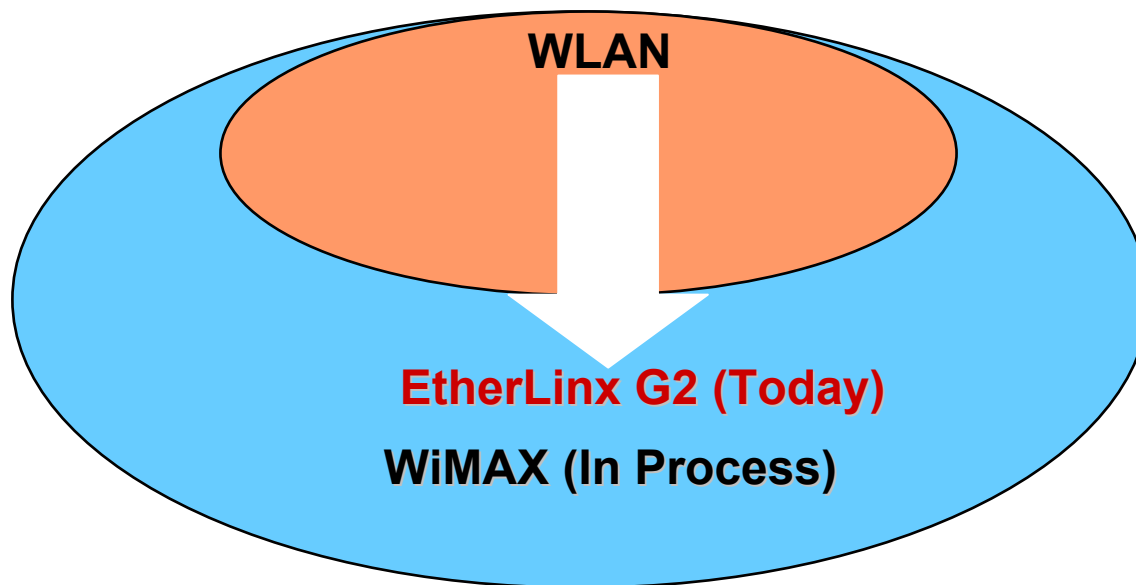


Visit our website to view stories that aired on TV
www.etherlinx.com



EtherLinx Product Positioning

- Existing WLAN (WiFi) targets short distance IP services
 - Solves the technological gap between WLAN and WiMAX
 - EtherLinx G2 Solutions: Long Range Low Cost and Secure
- G2:** - Bridges between WLAN and WiMAX (and available Now!)
- Wi-Linx™ MobileLinx™ and Secure Signal Radio™**
- **100 Mbps** Extended Backhaul up to 50 miles
 - **2 Mbps** BW CPE (Low cost CPE / Repeater)
 - **4 /11 Mbps** Repeater (and **WiFiSpot™ In-a-Box**)
- Extends beyond WLAN now while WiMAX matures
 - Complete EtherLinx real time network management





EtherLinx Product Offering

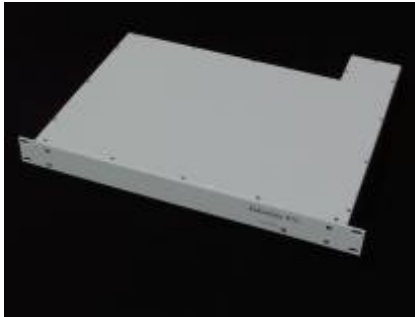
- EtherLinx combines the best wireless physical layer and switch at the lowest cost available in today's market.
- Physical layer: extends reach to 50 miles
- Switch layer: low cost maximum flexibility
- EtherLinx **G2 product** available now !
 - **Wi-Linx™** (G3: Generation Products in R&D)
 - Extended reach for wired and wireless (Wi-Fi)
 - Highly Secure
 - Highly Reliable
 - **MobileLinx™**
 - Mobile Wireless IP Switch
 - Voice over Wi-Fi Gateway today
 - Transparent migration to 4G and WiMAX
 - **Secure Signal Radio™** (Now available with: **CustomKey R.F.™**)
 - Complete with Network Management



Products

EtherLinx Gateway 972

The EtherLinx Gateway 972, is a wireless Ethernet radio transmitter using 2.4GHz Direct Sequence Spread Spectrum (DSSS) technology. The ECI 972 is a point-to-multipoint wireless communication system. EtherLinx Gateway 972 is the primary broadcasting component of EtherLinx Secure Signal Radio™ Basestation product offerings.



Primary broadcasting device for the EtherLinx Basestation.

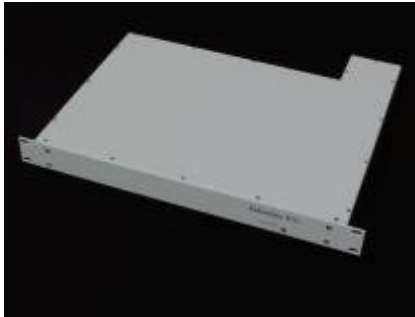
- 19 inch rack mountable
- Basestation radio transmitter 2 and 11 Mbps
- > 20 miles point-to-multipoint
- Connects to external omni or directional antenna
- Ethernet port for connection directly to network
- Network management enabled
- FCC Approved - 2.4Ghz unlicensed ISM Band



Products

EtherLinx Backhaul 995

The EtherLinx Backhaul 995, is a wireless Ethernet radio transmitter using 5.2GHz and 5.8GHz license free spectrum. The 995 is a point-to-multipoint wireless communication system. The EtherLinx Backhaul 995 is the primary component of EtherLinx Backhaul product offerings.



Primary device for linking the EtherLinx Basestation Sites.

- 19 inch rack mountable
- Backhaul radio transmitter - 100Mbps
- up to 20 miles point-to-multipoint
- Connects to external directional panel 5.2/5.8 GHz antenna
- Ethernet port for connection directly to the Basestation network
- Network management enabled
- FCC Approved – 5.2/5.8Ghz unlicensed Bands

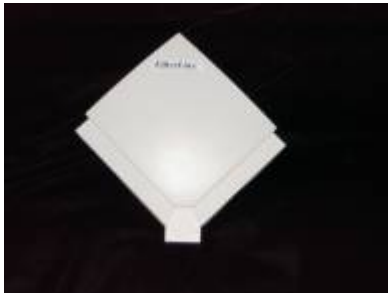


Products

Residential Gateway CPE

Millennium Edition

The Residential Gateway, the Millennium line of low cost CPE equipment, is an active bridge/repeater. The Millennium CPE adds repeater capability to the footprint, and has an active CAT5 cabled and powered radio that installs quickly and cleanly, and mitigates LOS (line of sight) requirements.



The Customer Premise Equipment (CPE) is for receiving the EtherLinx Base Station signals

- Small form factor
- Built-in directional antenna
- Range up to 10 miles both receiving and repeating
- Bridge to Ethernet with RJ45 for connection to a Hub or NIC
- Secure Interface
- Power over Ethernet.



EtherLinx Product Advantages

- **Integrated triple play PLUS ... (it's available today!)**
 - High Speed Data
 - VoIP and Video Phone
 - Real-time Video and Audio
 - Remote: Monitor, Capture, Detect, Control
- **Carrier Model: high income with low Capital Expense**
 - Multiple services in one platform
 - Ability to provide custom SLA's
 - Lowest Cost to Deploy
- **Convergence of packet and circuit switch**
 - Flexible technology platform
 - Five Nines Reliability (up time 99.999%)
 - Fastest to Deploy, Cheapest to Maintain



EtherLinx Technologies and Key Differentiations

- **Long Distance Capability**

NLOS: 1-3 miles, Near LOS: 3-20 miles, LOS: >20miles

Far better than the 1000' range of other Wi-Fi Technologies

- Adaptive intelligent broadcasting window timing
- Superior encoding technique to reduce cross coupling

- **High Security features unmatched by competing Technologies**

- Large variety of CDMA codes
- Unique packet transmission scheme

- **Disruptive Low Cost ... more than a Billion Wi-Fi Chipsets to Ship in 2012**

- Maxim coverage with use of low cost 802.11 Wi-Fi hardware

The research indicates that around the middle of 2008, the industry will have passed the one billion mark for cumulative chipset shipments. "Cumulative shipments of one billion Wi-Fi ICs mark a significant milestone," says principal analyst Philip Solis, "but even more impressive, there will be well over a billion chipsets shipped in 2012 alone, with cellular handsets and consumer electronics accounting for over two-thirds of that total."

NEW YORK - February 13, 2007 ABI Research



EtherLinx Value Proposition

- **Our software approach allows for economical deployment of low cost and high performance Base Station and CPE configurations. EtherLinx achieves this by using off the shelf 802.11 equipment and loading our proprietary Secure Signal Radio™ and Smart Spectrum™ firmware on to the standard WiFi hardware. Our software takes the inexpensive 802.11 hardware and increases the functionality.**
- **802.11 Wi-Fi standard chip sets and antenna costs continues to get lower.**
- **Fewer units are required for coverage with the Software Designed Radio solution (SDR) and the long distance capability that EtherLinx provides.**
- **Whether you are covering a few remote locations or building city wide public wireless networks the overall deployment cost is lower than the competition.**
- **EtherLinx Wireless Networks are more cost efficient and easier to install than any other competing wireless or conventional cable and copper line solution.**

- **The Bottom Line... EtherLinx technology has more capability at a lower cost.**

The availability of low cost/high performance chipsets and end-user devices is absolutely key to the continuing adoption of Wi-Fi technology throughout the global internet community. In a market that has been fraught with mis-information and false dawns, the Wi-Fi sector now offers real hope and opportunity to those in the supply chain who can offer the right features; availability and value.



EtherLinx Wireless Networks

How it Works

Basestation Gateway

Broadcasts the EtherLinx signal from top of a tall building or tower using standard 2.4 GHz ISM sector and/or omni directional antennas over a 10 mile footprint radius (longer ranges can be achieved with specialized antennas) to receiving customer premise equipment.

A five (5) mile radius footprint is recommended for a Non-Line of Site (NLOS) design.

The Internet backbone connection is established at the EtherLinx Basestation Gateway. EtherLinx Basestation Authentication Controller and network management provide full roaming capability, built in data transport security and access management functionality.

Omni Repeaters

Located within the footprint, repeaters can be located on utility poles, roof tops, or cellular towers where they accept and strengthen the signal and then rebroadcast it. This unique product technology (repeater functionality) is low cost and mitigates Line of Site (LOS) and range problems associated with Wi-Fi and other wireless technology.

The combination of the Basestation Gateway and Omni Repeaters creates robust NLOS environments required for zero installation, portable, and mobile broadband solutions.



EtherLinx Wireless Networks cont.

Residential Gateway

Low cost CPE (customer premise equipment) is installed at the homes or businesses that require Secure High Speed (always on) wireless broadband connections. The CPE / Residential Gateway employs standard CAT-5 Power Over Ethernet (P.O.E.) cabling and connections that plug directly into the end-users computer, hub or Access Point.

Dual-Mode Wi-Fi Repeater and Gateway

Installed within the footprint, at the home or business to instantly create a Wi-Fi Hotspot. A metropolitan Wi-Fi network can easily be built by deploying multiple EtherLinx Dual-mode Wi-Fi Repeaters.

Dual-mode Wi-Fi repeater leverages the EtherLinx broadcast then converts it to standard Wi-Fi (802.11b or g) so that a laptop or PDA users can have instant wireless access using standard built in Wi-Fi or Wi-Fi cards in their computers.

The user doesn't need special hardware or software.

The Dual-mode repeater supports all standard 802.11b/g protocols.

This capability is expected to accelerate the ability for Wi-Fi hotspots to be deployed quickly and in large numbers.

Of the estimated 150 million laptops, 14 million PDAs, and other emerging communication devices sold per year for the last few years most include the Wi-Fi feature, i.e. the iPhone.



EtherLinx Technology Security Features

- **Through the use of proprietary software, firmware, networking algorithms and techniques originally developed for counter-measures and electronic surveillance on US Military projects EtherLinx has enhanced standard 802.11 products to extend their range and be more secure than Wi-Fi or WiMAX.**
- **Products using standard 802.11a/b/g or WiMAX 802.16x and all IEEE protocol based hardware products that are widely available to the public also come along with detailed and published IEEE radio and security specifications. This invites hacking and can lead to eavesdropping without detection by the end users.**
- **EtherLinx software technology utilizes direct sequence spread spectrum and a proprietary direct sequence code division multiple access (DS / CDMA / BPSK / QPSK / and CCK) for secure data transmission that prevents any type of eavesdropping. (Unique versions available for Banking and Government etc.)**
- **EtherLinx direct sequence contrasts with the other spread spectrum as it is far more robust and can cover much longer distances than other direct sequence (DS), or frequency hopping (FH) spread spectrum products available today.**



EtherLinx Technology Security Features cont.

- **EtherLinx transparent RF signal, if seen, appears as background noise. Even this detection can only be accomplished with very expensive spectrum analyzers and these devices would not be able to decipher the content or data carried by the RF signal.**
- **A data signal at the point of transmission is combined with a higher data-rate bit sequence (also known as a chipping code) to insure data integrity.**
- **EtherLinx transparent and redundant chipping code helps the signal resist interference and also enables all of the original data to be recovered if data bits are damaged or lost during transmission.**
- **The data networking algorithms used in the EtherLinx solution are the most secure and advanced in the industry and were designed specifically to mitigate radio interference and prevent eavesdropping or attacks by hackers.**



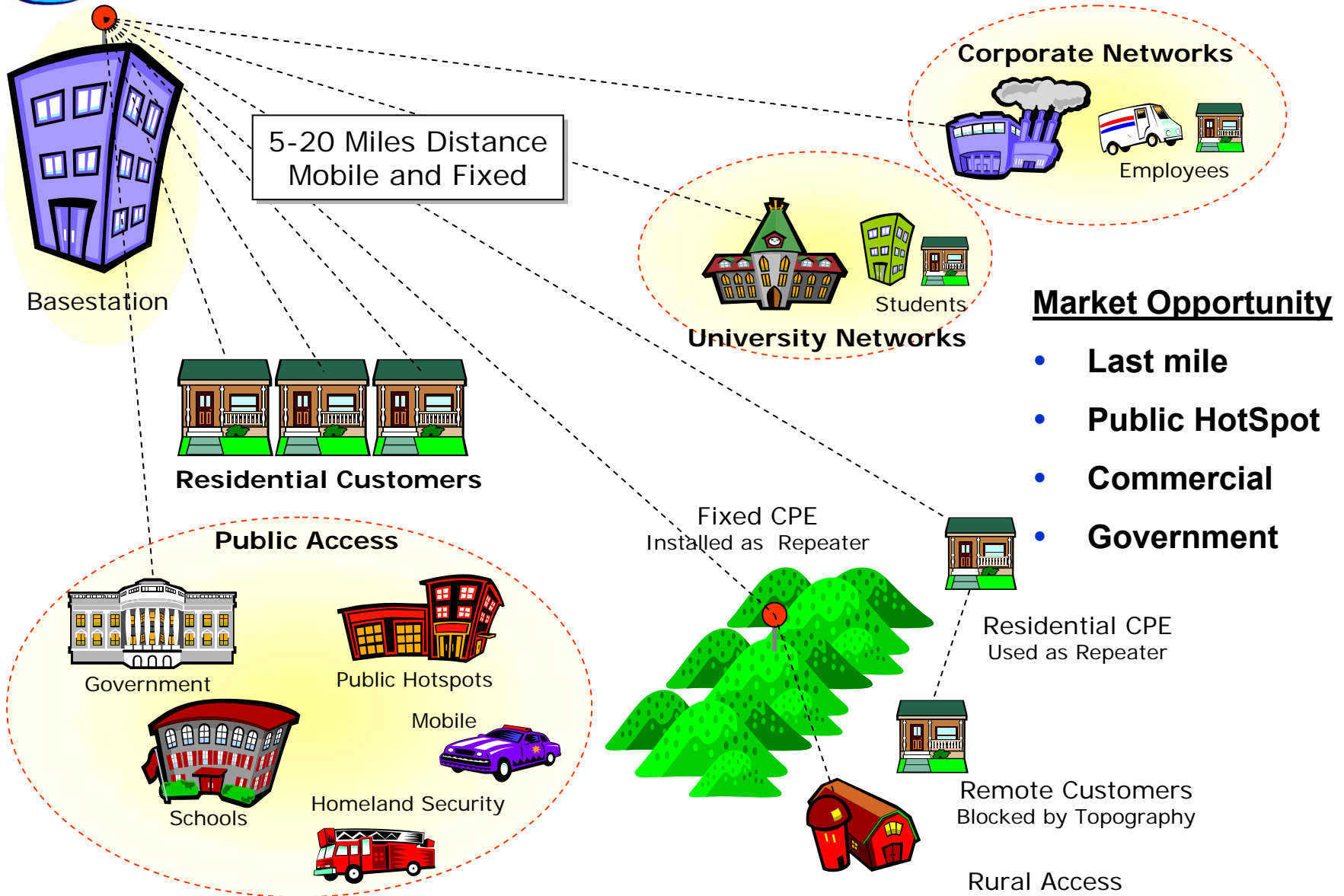
Performance comparison

Technology	Speed	LOS Distance	NLOS Distance
Wi-Fi 802.11b	1-6 Mbps actual	Up to 2 km at 1 Mbps	300-1000 meters 300 ft. indoor
EtherLinx (Mobile)	2 Mbps 100 Mbps	Up to 80 km Up to 48 km	CPE to 16 km Fixed to 32 km
WiMAX (Fixed)	70 Mbps (No Mobile)	Spec to 96 km (unproven)	48 km (unproven)
3G/4G Cell Phone	144 Kbps (Mobile)	N/A	4.8 to 12.8 km



EtherLinX Solutions

Products that Power Wireless Broadband





EtherLinx Applications

Government and Military Mobile Vehicles

EtherLinx can enhance all government command & control center operations. Secure Signal Network™ and the Secure Signal Radio™ solution can provide low cost and highly secure mobile and fixed communications. Examples include monitoring borders, dams, power plants, harbors and waterways. Coordination of Military operations, field exercises etc.



POWER PLANT



BORDER CONTROL/SURVEILLANCE



DAMS & WATERWAYS

City Services and Mobile Vehicles

The EtherLinx Secure Signal Network™ network is an ideal solution for Public safety services and emergency response teams. Police communication from the central command office can connect to other police stations and to field officers including EtherLinx mobile solution for vehicles. Live video feed and access to criminal databases as well as perimeter security monitoring. Fire and Ambulances can utilize this network to communicate with hospitals medical teams. Utilities can have remote metering capability and provide Internet service to their customers.



EMERGENCY VEHICLES



CENTRAL OFFICE



POLICE & SECURITY



EtherLinx Applications cont.

EtherLinx Secure Signal Radio™ network can provide 24/7 perimeter security monitoring in areas outside or inside activity centers, transportation hubs, or out buildings etc. You can arrange to view walkways, halls, parking or storage locations, loading and unloading activity. Public areas now can be made more secure and at much lower cost.

Activity Centers and Transportation



AIRPORTS



SHOPPING CENTER



HOTELS



BRIDGES



TRAINS



HARBORS



EtherLinx Applications cont.

Monitor grounds, hallways and parking lots for security with the use of wireless video. Provide students with access to the internet from dorms, classrooms and throughout campus. Create secure networks using EtherLinx Secure Signal Radio™ components for linking all facilities within an extended coverage area. You can choose to securely network any campus building to a On or Off campus site and or to local authorities using EtherLinx Secure Signal Network™.



CLASSROOMS



ADMINISTRATION

Medical

Update and access patient medical records or pharmacy records. Direct communication can be made through out your EtherLinx Secure Signal Network™ for emergency's, administrative and vital collaboration instantly.



DORMITORIES



HOSPITALS



EMERGENCY CLINICS



FACTORY MEDICAL



In Conclusion

- **The EtherLinx team would like to thank you for your time and interest in our company and products. EtherLinx Communications Inc. (ECI) is committed to providing our customers the very best products, services and the most cost effective wireless broadband deployment solutions available today.
EtherLinx has demonstrated in real applications that we offer the most secure, most reliable, easiest to manage solutions and at the lowest possible cost.**
- **ECI plans to offer future Secure Signal Radio™ products compatible with WiMAX and other emerging broadband technologies as they develop and become available. Our research and development is ongoing we continue to add relevant and wanted technologies to our product lines. Customer feedback has aided us in our product developments and your input is valuable to us and always welcome.**
- **ECI has partnering channels with the leading communications and wireless technology corporations, and some of the worlds largest WiFi / WiMAX hardware manufacturers. While looking at new technologies we continue to look for ways to add value, reduce production cost and pass those savings on to our customers.**
- **EtherLinx history includes many of the “FIRST” in Wi-Fi and RF technology. In early 2002 pioneered the First Software Defined Radio (SDR) and introduced the first low cost “CPE” (Customer Premise Equipment) as featured in the New York Times. We will continue in our R&D efforts to provide our customers with the latest high quality, lowest cost wireless broadband solutions that are available and deployable in the world today.**

Thank You !