

WiMAX Forum News

Weekly Clip Report October 13-19

[Articles of Note](#)

Fujitsu Introduces New Line of WiMAX Products, Outlines 'Strategy', October 16, TMCNet
Fujitsu Network Communications and Fujitsu Microelectronics America Inc. last week unveiled a new, comprehensive WiMAX strategy covering every major component in the WiMAX network, including silicon solutions, electronic devices, radio access network solutions, professional services and backhaul infrastructure solutions. Driving the overhaul of Fujitsu's WiMAX portfolio are recent advancements in nanotechnology, which serves as the basis for the company's WiMAX SoC. The system utilizes proprietary 90 nm process technology to deliver higher performance and lower power consumption.

<http://www.tmcnet.com/wifirevolution/articles/3115-fujitsu-introduces-new-line-wimax-products-outlines-strategy.htm>

<http://www.dqchannels.com/content/reselleralert/106101901.asp>

"Exploring WiMAX" Training Session, October 19, Wireless Week

Award Solutions is offering an open course training session entitled "Exploring WiMAX" on October 23-24. With the mobile WiMAX standard accepted, and interest continuing to build, WiMAX has emerged as one of the most high profile technologies in the emerging wireless/mobile broadband industry. This technical course provides an overview of WiMAX and OFDM, describing 802.16e in detail. Join us to get a balanced view of WiMAX and its role in next generation networks.

http://www.wirelessweek.com/index.asp?layout=event&element_id=2140024472

The Editor's Corner: The phony war, October 19, Fierce WiFi

The period between October 1939 and May 1940, that is, between the German invasion of Poland and the German invasion of the Netherlands, Belgium and France, was called the Phony War: There was a lot of military posturing but little actual fighting between the Allies and the Axis powers. What we are seeing on mobile WiMAX front may as well be described as a phony war: There is much posturing and talking, generals huddle over maps, troops are moving in this direction or that--but the real war is yet to begin.

www.fiercewifi.com (Fierce Newsletters)

Aperto Demonstrates Live Mobile WiMAX Applications from an 802.16e Compliant Subscriber Unit, October 13, 802.16 News

Aperto Networks is showcased its extended 802.16e-2005 compliant PacketMAX(TM) architecture with a live demonstration of Mobile WiMAX applications at the WiMAX World 2006 conference in Boston. The live showcase featured PacketMAX technology within a variety of service scenarios including Internet browsing, streaming media and file downloading over an Aperto Networks' PacketMAX platform. The showcase also demonstrated the ability of PacketMAX to successfully operate with an ASN gateway performing subscriber and service management functions needed for mobile WiMAX networks.

<http://www.80216news.com/pubs/2006/10/13/page1299-239888.asp>

Alcatel and Runcom to Bring Universal WiMAX to Commercial Readiness, October 13, 802.16 News
Alcatel and Runcom Technologies, Ltd. announced that commercial ready products will be available for early adopters of universal WiMAX (IEEE 802.16e-2005) technology. Enhancing Alcatel's Open CPE (Customer Premises Equipment) Policy, Alcatel and Runcom actively collaborated in different areas such as the development of end to end solutions including the integration of Runcom chipsets into Alcatel's Evolium WiMAX solution infrastructure as well as into terminals, interoperability testing, and joint marketing efforts in order to bring this new and exciting technology to commercial deployment.

<http://www.80216news.com/pubs/2006/10/13/page1299-240904.asp>

Accton Introduces Low-Cost Mobile WiMAX CPE at WiMAX World, October 13, 802.16 News

Accton Technology Corporation announced the launch of its first wireless broadband modem for operators that are deploying WiMAX networks in the popular 2 and 3 GHz frequency bands. This brand new series of self-installable CPEs, the WI2400 for operation in the 2 GHz band and the WI3400 for operation in the 3 GHz band, are based on Beceem's industry leading MS120 Mobile WiMAX chipset.

<http://www.80216news.com/pubs/2006/10/13/page1299-240597.asp>

Beceem Communications Continues Ecosystem Leadership at WiMAX World USA, October 16, 802.16 News

Beceem Communications announced key product and development relationships that are accelerating trials and deployments of Mobile WiMAX networks around the world. Activities revealed at the WiMAX World USA show include: The launch of China's first Mobile WiMAX solution by ZTE using Beceem's MS120 chipset and a joint development relationship with ZTE. ZTE is China's leading global wireless equipment provider and system integrator. The launch of a low-cost Wireless Broadband modem that is using Beceem's MS120 chipset. Accton is one of Taiwan's leading ODMs and the global premier provider of networking and communications equipment.

<http://www.80216news.com/pubs/2006/10/16/page1299-240144.asp>

Texas Instruments New Software Library Meets Mobile WiMAX Requirements for Wireless Infrastructure Products, October 19, 802.16 News

Texas Instruments Incorporated (TI) expands the depth and distinction of its WiMAX infrastructure solutions with the announcement of its WiMAX Forum 802.16e Wave 1 Certification Library. TI's highly optimized software library incorporates all of the core signal processing and permutation functions required to build a Wave 1 compliant solution. In addition, TI has incorporated Wave 2 permutation functions to hasten the adoption of the advanced multi-antenna signal processing features such as MIMO and beam forming which are defined as part of the WiMAX Forum Wave 2 feature set. TI's software library is a key component of its 1 GHz, DSP- based wireless infrastructure solution supporting the evolution of the mobile WiMAX standard.

<http://www.80216news.com/pubs/2006/10/19/page1299-239015.asp>

<http://www.bbwxchange.com/pubs/2006/10/19/page1423-239015.asp>

Sumitomo Electric Networks Picks Starent Networks Mobile WiMAX Access Solution, October 19, 802.16 News

Starent Networks, Corp. announced that Sumitomo Electric Networks, Inc. (Suminet) has selected the Starent Access Service Network Gateway (ASN-GW) and Home Agent (HA) as a key element for their Mobile WiMAX solution. Starent Networks will deliver its access independent ST16 Intelligent Mobile Gateway with ASN and HA services to Suminet as the access component of Suminet's end-to-end Mobile WiMAX offering. The companies are already working toward an initial field trial with a Mobile WiMAX operator in Japan.

<http://www.80216news.com/pubs/2006/10/19/page1299-239465.asp>

Crestel Convergent Billing Joins WiMAX Forum, October 18, 802.16 News

Elitecore Technologies, vendor of Crestel Convergent Billing Solution announced its membership in the WiMAX Forum, an industry-led, nonprofit association that promotes the adoption of IEEE 802.16 and ETSI HiperMAN equipment by operators of broadband wireless access systems. Crestel is one of the early OSS / BSS products that recognize the important role WiMAX is set to play from backhauling and remote connectivity to high-speed wireless service delivery at the retail end. With Crestel's WiMAX support, wireline and wireless operators can seamlessly incorporate WiMAX Forum Certified(TM) products into their service offerings.

<http://www.80216news.com/pubs/2006/10/18/page1299-242624.asp>

ADAPTIX Announces Pricing and Availability of New Mobile WiMAX Base Stations and Mobile Terminals, October 19, 802.16 News

ADAPTIX has announced pricing and availability for its line of high- performance compact mobile base stations and mobile terminals. Both the BX- 3000 family of base stations and SX-300 mobile terminal cost-effectively address the challenge of providing multi-megabit mobile and fixed wireless connections that will meet the needs of a demanding subscriber base. The BX-3000 series of Mobile Base Stations will be available at volume street pricing starting at \$19,995 for a single-sector configuration. A high performance three-sector base station configuration is also available at volume street pricing starting at \$39,995. Additional options include hardware redundancy, intermediate and long reach fiber optics and a variety of indoor and outdoor RF unit options with different power and antenna configurations.

<http://www.80216news.com/pubs/2006/10/19/page1299-239477.asp>

Intel Develops the First Dual-Mode Fixed/Mobile WiMax Chipset, October 13, Broadband Wireless Online

An article in Computer Business Review Online reports that Intel Corporation has developed the the first dual-mode baseband chipset for both fixed and mobile WiMAX. The chipset, which supports both the 802.16d fixed WiMAX and 802.16e mobile WiMAX technology is designed to pair with Intel's tri-band WiMAX radio for support of all current global WiMAX frequencies. Initial deployments in the "d" mode can be upgraded to the mobile "e" mode with a dynamic software upgrade. Motorola has already announced that it intends to use the chipset in its upcoming WiMAX CPE radios. First products based on the new chip are expected next year.

<http://www.shorecliffcommunications.com/magazine/news.asp?news=5585>

Nortel Provides Golden Telecom with Solution for Setting Up Mobile WiMAX Trial Zone in Moscow, October 19, 80216 News

The Moscow trial is one of the steps in Golden Telecom's strategy aimed at satisfying the growing demand from private and corporate customers in Russia for anywhere, anytime Internet access and fast mobile communications services such as VoIP, email and multimedia applications. "Mobile WiMAX is at the forefront of next-generation mobility," said Sorin Lupu, president Eastern Europe, Nortel. "Advanced OFDM-MIMO will be the foundation for all future wireless technologies and - in a short number of years - I'm sure we'll find that all computers, PDAs and other mobile consumer devices will be wireless-enabled. In the short term, Golden Telecom's mobile WiMAX trial is a significant step towards providing Moscow's citizens with 'always on' communications available when and where they want them, through whatever device."

<http://www.80216news.com/pubs/2006/10/19/page1299-239471.asp>

Mocana Joins Wi-Fi Alliance and WiMAX Forum, October 17, Networking News

Mocana announced its membership in the Wi-Fi Alliance and the WiMAX Forum. Joining these organizations will enable Mocana to contribute to the development of industry standards and programs that will provide greater levels of security for wireless networks and services all the way to edge devices. The Wi-Fi Alliance is a global, non-profit industry association of more than 275 member companies devoted to promoting the growth of wireless Local Area Networks (WLANs). Its testing and certification programs ensure the interoperability of WLAN products based on the IEEE 802.11 specification.

<http://home.nestor.minsk.by/networks/news/2006/10/1705.html>

Price war looms over WiMAX spectrum auction, October 17, ITPro

BT is preparing to buy up wireless spectrum with a view to launching combined mobile WiMAX and GSM converged services in 2008, according to industry insiders. Speculation that the UK carrier will be one of the bidders at Ofcom's 2.5GHz to 2.69GHz spectrum sale early next year was sweeping last week's WiMAX World event in Boston. The spectrum will go on to be available for service providers in early 2008, says Ofcom. "It's very likely that this rumour is true," says wireless market analyst Mike Hijdra of 2Fast4Wireless.

"BT is already steering the Fixed Mobile Convergence Alliance, so it plainly has a major interest in this kind of thing."

<http://www.itpro.co.uk/applications/news/95725/price-war-looms-over-wimax-spectrum-auction.html>

New software lib meets mobile WiMAX standards, October 17, Engineering Times

The library has all core signal processing and permutation functions required to build a Wave 1 compliant solution. It is also equipped with Wave 2 permutation functions for speedy adoption of advanced multi-antenna signal processing features such as MIMO and beamforming, both defined as part of the WiMAX Forum Wave 2 feature set. The software library is a key component of its 1GHz, DSP-based wireless infrastructure solution supporting the evolution of the mobile WiMAX standard. According to TI, the WiMAX software library allows easy integration into OEM products and service provider networks. The rigorous testing and responsive customer support of this library is claimed to drastically reduce internal development costs of equipment manufacturers.

http://www.eetasia.com/ART_8800437968_499495_4ef73b10200610.HTM

Product Introductions Set the Stage for WiMAX, October 16, Information Week

WiMAX got another push forward last week when key equipment vendors rolled out or announced plans for WiMAX gear for consumers and service providers. The moves by Intel, Motorola, Nokia, and Nortel Networks are a strong endorsement of WiMAX and mean that much faster wireless services could become widely available in a year or two. Motorola focused on the consumer market, introducing wireless modems at the WiMAX World show that let home users connect to WiMAX networks run by service providers. The devices, which wirelessly connect to a computer and a WiMAX service provider, should be available early next year. Current versions are too large to fit inside notebook computers or cell phones, but Motorola plans to introduce WiMAX chipsets in 2008 that will be integrated into its cell phones.

<http://www.informationweek.com/hardware/showArticle.jhtml?articleID=193302688>

Redline to raise £40m for WiMAX network investment, October 16, ITPro

Network equipment specialist Redline Communications is expected to raise £40m to fund investment in next-generation WiMAX wireless networks and technology, when it floats on the London's Alternate Investment Market next month. The money will be used to invest in several territories, including the UK, where existing fixed-line broadband services are less developed, are restricted by poor infrastructure or where geographic limitations are restricting the deployment of fixed-line services. The Canadian-based company, founded in 1999, currently has around 30,000 wireless broadband systems deployed by operators in over 80 countries. It was the first to market an 802.16 compliant product and was amongst the first companies to receive WiMAX Forum certification for its RedMAX WiMAX system.

<http://www.itpro.co.uk/news/95699/redline-to-raise-40m-for-wimax-network-investment.html>

Standards are Imperative in Making WiMAX a Reality, October 16, Cellular News

Yankee Group reports that standardized mobile WiMAX will not become a reality until early 2008. WiMAX has become a commonplace discussion, and while there is significant attention surrounding the technology, greater attention is focused on when WiMAX will truly emerge and which WiMAX standard will work. As a result, service providers and other customers' re-directed focus on the reality of WiMAX have led to increased frustration of potential WiMAX adoption. "While the WiMAX standards process has led to much frustration in the industry, the standard is essential to the market success for the technology," said Tara Howard, Yankee Group, Broadband Access Technologies analyst.

<http://www.cellular-news.com/story/19871.php>

<http://www.tmcnet.com/voip/ip-communications/articles/3180-yankee-group-standards-vital-mobile-wimax-adoption-will.htm>

WiMAX Still in Start-up Mode for Corporate Applications, October 16, Computer World

Vendors of WiMAX products and services predicted here last week that the emerging technology will

provide vastly enhanced wireless bandwidth at a fraction of the cost users now have to pay. But IT managers and analysts, although enthralled with the promise of higher bandwidth, said at the WiMAX World USA 2006 conference that Imax's potential business applications are still mostly unclear, as are the actual costs that corporate users would have to pay for services based on the technology.

http://www.computerworld.com/action/article.do?command=viewArticleBasic&taxonomyName=mobile_wireless&articleId=268811&taxonomyId=15

Mobile WiMAX to hit UK mid-2007, October 12, ZDNet

The UK is likely to see its first deployment of the mobile WiMAX standard around the middle of next year, but as a substitute for fixed broadband rather than a new mobile technology. According to Stephane LeDreau, Nortel's wireless business leader for Europe, the Middle East and Africa, the telecommunications equipment manufacturer has an agreement with an unnamed UK provider to use its new MIMO-powered mobile WiMAX system. "We have today an agreement with a company to provide them with a WiMAX trial system at the beginning of next year," LeDreau told ZDNet UK on Thursday, explaining that this company had a "fixed 3.5GHz licence but will use a 802.16e solution to fulfil this deployment."

<http://news.zdnet.co.uk/communications/wireless/0,39020348,39284060,00.htm>

Nokia Marks WiMAX Milestone with Nokia Flexi WiMAX Base Station, October 11, HardwareZone

Nokia announced the Nokia Flexi WiMAX Base Station, an innovation that will revolutionize the way broadband wireless networks will be built while minimizing operating and capital expenditures for broadband wireless operators. The introduction of the Nokia Flexi WiMAX Base Station shows Nokia's engagement in mobile WiMAX and is rooted in the company's global expertise in wireless network deployments. Operators will benefit from the small and modular design of the Nokia Flexi WiMAX Base Station, which can optimize the costs of siting and operating WiMAX infrastructure.

<http://www.hardwarezone.com/news/view.php?id=5694&cid=8>

<http://www.80216news.com/pubs/page1298.asp>

Intel Ships WiMAX Chip With Support for Mobile Networks, October 13, Daily Tech

As the inventors of the WiMAX protocol, Intel recently announced the availability of the Intel WiMAX Connection 2250, the company's next-generation system-on-chip and its first designed to support mobile networks in addition to fixed networks. The Intel WiMAX Connection 2250 is the industry's first dual-mode baseband chip, and when paired with Intel's discrete tri-band WiMAX radio, the solution is capable of supporting all global WiMAX frequencies. "Intel is bringing its first mobile WiMAX compliant product to market, marking an incredibly important step in the launch of mobile WiMAX," said Sean Maloney of Intel's Sales and Marketing Group. "The first with dual mode support, the new chip bridges the worlds of fixed and mobile WiMAX, helping equipment manufacturers build customer premise equipment at increasingly attractive price points, and service providers to break ground on upgradeable networks."

<http://www.dailytech.com/Article.aspx?newsid=4534>

<http://neasia.nikkeibp.com/dailynewsdetail/005424>

<http://www.xbitlabs.com/news/other/display/20061017063646.html>

Intel delivers first mobile WiMax chips, October 13, PC Authority

Intel has started shipping the industry's first dual-mode baseband WiMAX chips. The WiMAX Connection 2250 supports mobile and fixed WiMAX services. It is designed to connect devices like computers and set-top boxes, while the mobile facility allows users to stay connected by handing off the connection from one access point to another. Intel claims that its chip is the industry's first mobile WiMAX radio. Combining the two networks on a single chip makes for cheaper base stations, the chipmaker argued.

<http://www.pcauthority.com.au/news.aspx?ClaNID=40616>

Nortel's WiMAX Push, October 12, Forbes

When Mike S. Zafirovski signed on as Nortel Networks' chief executive in November of 2005, his first task was to shake up the telecommunications and networking equipment firm, which had been beleaguered by accounting and management troubles that led to hundreds of millions of dollars of restated earnings, class actions and the firing of former chief executive Frank Dunn in 2004. One of Zafirovski's major moves has been to hire John J. Roese to serve as chief technology officer of the \$10.5 billion (2005 sales) telecom giant.

http://www.forbes.com/intelligentinfrastructure/2006/10/12/wimax-nortel-roese_cx_df_tech_intel_1013nortel.html

Why Sprint says WiMAX is 4G, October 17, Tech World

In a voice hoarse from a day of talking, the man in charge of 4G at US carrier Sprint dissects the physics of mobile WiMAX, explains the economics of the Sprint network being built on it, analyses the need for a radically simple user experience and explains what it all means for his grandchildren in England. Londoner Barry West, formerly of Nextel, is now Sprint's CTO and president of its recently created 4G business unit, charged with spending at least US\$2.5 billion to deploy 802.16e mobile WiMAX base stations, covering 100,000 points of presence, by the end of 2008. That deployment will start in late 2007, delivering 1Mbit/s to 3Mbit/s service to subscribers.

<http://www.techworld.com/mobility/features/index.cfm?featureID=2876&pagetype=all>

A Telephony Podcast: WiMAX World 2006, October 18, Telephony Online

Telephony editors were on site at WiMAX World in Boston last week to cover new developments in the broadband wireless sector. Hear excerpts from live interviews with industry analysts and the WiMAX Forum about recent developments in the WiMAX community and what the future holds.

http://telephonyonline.com/wimax/news/podcast_wimax_world_101806/

[WiMAX Forum Member Company News](#)

Comstar UTS wants to build WiMAX network in 16 Russian regions, October 19, Cellular-News
Russian telecommunications operator Comstar United Telesystems, or Comstar UTS, has applied for getting frequencies in the 2.5 gigahertz to 2.7 gigahertz frequency range to build a WiMAX network in 16 Russian regions, Sistema Telecom's Deputy General Director for Strategy Sergei Baida said, Kommersant business daily reported Thursday. Sistema Telecom, the telecommunications arm of major Russian holding AFK Sistema, controls Comstar UTS. The project envisions rolling out WiMAX broadband wireless networks in cities with populations over 1 million and in cities where Comstar UTS already has affiliates or branches, the daily reported.

<http://www.cellular-news.com/story/19936.php>

Motorola Looks Ahead, October 19, Forbes

Motorola has spent the last two years riding the success of its thin, trendy RAZR phone, selling more than 50 million units worldwide. But it's hard to keep something sharp indefinitely: This week the company reported a 45% decline in quarterly profits. So what's next? The company offered some clues this week at its headquarters, where it showed off some futuristic (and not-so-futuristic) technologies. The wares on display ranged from trials of prototype "social" television that you watch with your buddies and discuss over speaker phone to things Motorola has been showing off for a while, like WiMAX wireless networks.

http://www.forbes.com/wireless/2006/10/19/razr-motorola-iphone-tech-wire-cx_df_1019motorola.html

Sprint Nextel may buy WiMAX CPE products from Taiwan, October 19, DiGi Times

US-based telecom service provider Sprint Nextel is soliciting quotations for WiMAX CPE (customer premise equipment) products from Taiwan-based network-equipment makers, which may lead to the establishment of long-term partnerships between Sprint Nextel and such companies, according to Peter MacKinnon, general manager of WiMAX business unit at Nortel Networks. Utilizing its partnership with Taiwanese

makers, Nortel is helping Sprint Nextel to build up direct business relations with Taiwan-based companies, MacKinnon noted. After meeting with a number of local makers, including Foxconn Electronics (the registered trade name of Hon Hai Precision Industry), Accton Technology, Zyxel Communications, Mitac Technology, GemTek Technology and Cameo Communications, MacKinnon indicated that Sprint Nextel is likely to establish direct business.

<http://www.digitimes.com/systems/a20061019A9050.html>

Eircom to use WiMAX for broadband, October 19, RTE Business

Eircom has announced a number of initiatives which it says will improve broadband availability and increase take-up. It says an extra 100 telephone exchanges will be enabled for broadband by next year, while the company is also committing to taking all broadband orders placed in Dublin, Cork, Limerick, Waterford and Galway. Eircom says 120,000 extra phone lines will be able to support broadband as a result.

<http://www.rte.ie/business/2006/1019/eircom.html>

BelAir Networks and Siemens Networks Team to Deliver Best-of-Breed Broadband Wireless Mesh and WiMAX Solutions, October 18, 802.16 News

BelAir Networks and Siemens Networks LLC announced a worldwide agreement enabling Siemens to market and sell BelAir Networks products globally under the Siemens brand as part of its mobile networking portfolio. The companies have already teamed on several projects for leading cable and cellular operators, focused on both WiMAX mesh deployments and cellular backhaul. "We are pleased to work with BelAir Networks to deliver complete broadband WiMAX and Wi-Fi mesh solutions to our cable, cellular, and other service provider customers," said Joerg Lippert, Senior Vice President and General Manager of Mobile Networks, Siemens Networks.

<http://www.80216news.com/pubs/2006/10/18/page1299-240138.asp>

Redline named among the 2006 "Best of WiMAX World" Award Program Honorees, October 16, 802.16 News

Redline Communications announced that it has been named among xchange magazine's 2006 "Best of WiMAX World" honorees. Redline's RedMAX Management Suite (RMS) was recognized in for "Device/Peripheral/Application Software Innovation" at WiMAX World USA in Boston, MA on October 11, 2006. The RedMAX Management Suite is part of Redline's family of WiMAX products, which is being featured at the Redline booth (No.505) at the WiMAX event.

<http://www.80216news.com/pubs/2006/10/16/page1299-240481.asp>

Airband acquires RedWire with eye on WiMAX, October 17, RCR News

Fixed wireless service provider Airband Communications dove into the southern California wireless market by scooping up RedWire's high-speed Internet access and Voice over Internet Protocol business. Airband's President and Chief Executive Officer Mark Spagnolo stated the company plans to enhance RedWire's existing network with WiMAX technology "to provide more businesses with the ability to secure the scalable bandwidth they need to effectively manage their growing data, voice, disaster recovery and network security requirements."

<http://rcrnews.com/news.cms?newsId=27551>

Nortel Demonstrates IPTV, IMS Services Over WiMAX, October 16, Wireless

Network Nortel unveiled a new demonstration of real-time, multimedia IPTV and IMS services over a live high-speed, 4G WiMAX network. The demonstration, shown at the WiMAX World trade show in Boston, October 10-12, emphasizes Nortel's experience in delivering personalized, advanced IP-based broadband services across any device accessed from any network. Nortel's demonstration shows a variety of ways TVs and other devices can be used for personalized, high-speed communication and entertainment services such as broadcast video, video-on-demand, VoIP, instant messaging, gaming and click to call.

<http://www.wirelessnetworksonline.com/content/news/article.asp?DocID=%7BCA1ED781-C778-4A90-A0D3-239142661248%7D&Bucket=Current+Headlines>
<http://www.govtech.net/digitalcommunities/story.php?id=101665>

Analog Devices Introduces Series of Clock Generators for WiMAX Base Stations and Other Telecom Applications, October 16, TMCNet

Analog Devices Inc. has introduced a family of clock generators made to improve the reliability of telecommunications and instrumentation equipment while also reducing size and costs. The clock generator produces a timing or clock signal for use in synchronizing a circuit's operation. It must be extremely precise and reliable for applications like wireless communications and optical networks.

Analog Device's single-chip approach replaces a number of discrete components, enabling designers to reduce board space and materials costs. It also improves overall system reliability by diminishing the risks associated with the failure of discrete oscillators.

<http://ipcommunications.tmcnet.com/hot-topics/wireless/articles/3103-analog-devices-introduces-series-clock-generators-wimax-base.htm>

Intel: Pushed to the WiMAX, October 13, The Motley Fool

Earlier today, fellow Fool Rich Smith tried to prepare Intel investors for next Tuesday's earnings report by reminding them that analysts are expecting the chip-making giant to report a 13.5% decrease in sales and a 23% decline in profits. Ouch! That's the kind of news that could fuel a bit more volatility in Intel's stock, which is now selling for \$21.65 a share but has fluctuated between \$16 and \$27 in the past year. As longtime Fool readers know, I'm bullish on Intel's long-term prospects for a number of reasons.

<http://www.fool.com/News/mft/2006/mft06101321.htm>

Agilent Technologies, AT4 Wireless Receive Joint WiMAX Conformance Test Systems Contract in Taiwan – Update, October 16, Trading Markets

Early Monday, Agilent Technologies, Inc., a provider of bio-analytical and electronic measurement solutions, together with AT4 Wireless won a contract worth more than US\$1 million for Agilent's Measurement Systems Division and Wireless Business Unit and AT4 Wireless for fixed and mobile WiMAX conformance test and regulatory test systems with Telecom Technology Center Taiwan. According to Agilent, its Measurement Systems Division would provide the regulatory test system, project management, installation and training services. AT4 Wireless' Systems Division would provide the fixed and mobile WiMAX radio and protocol conformance test system based on their MINT T2110 architecture.

<http://www.tradingmarkets.com/site/news/BREAKING%20NEWS/459334/>

WiMAX World briefs: Proxim sells fixed WiMAX network in Taiwan, October 16, Telephony Online
Proxim Wireless has landed a deal with Asia Pacific Telecom Group in Taiwan to deploy a fixed WiMAX network in four phases in the city of Taichung. Taichung is Taiwan's third largest city with a population of about 1 million, and Proxim officials said that the network would cover the majority of the city's population after the two-year rollout. The network will be used to augment Asia Pacific's CDMA network in that city, allowing it to provide stationary high-bandwidth video and voice services to complement the mobile data network.

http://telephonyonline.com/wimax/news/wimax_world_briefs_101306/

Solectek Chooses the Fujitsu WiMAX SoC for its SkyWay-MAX Multiservice Access Systems, October 19, 802.16 News

Solectek Corporation and Fujitsu Microelectronics America, Inc. (FMA) announced that Solectek Corporation has selected the MB87M3550 Fixed WiMAX SoC from Fujitsu Microelectronics as the standard silicon for integration into its new WiMAX-compliant series of SkyWay-MAX base stations and subscriber units. Solectek has leveraged the Fujitsu SoC's performance advantages to give its SkyWay-MAX products an unrivalled link range for maximum reach and improved carrier economics. The SkyWay-MAX system will

be available in limited quantities at the end of 2006, and will be generally available during the first quarter of 2007.

<http://www.80216news.com/pubs/2006/10/19/page1299-238747.asp>

<http://www.bbwxchange.com/pubs/2006/10/19/page1423-238747.asp>

EDX Wireless Releases EDX SignalPro Version 6.1 Specifically Designed for WiMAX Network Design, October 19, 802.16 News

EDX Wireless LLC has announced the availability of EDX SignalPro version 6.1 as well as an updated Network Design Module, each containing features specific to WiMAX. EDX SignalPro with the Network Design Module will be used in the on-site WiMAX University WiMAX Network Designer Certification Boot Camp as the RF modeling tool for hands-on design experience. "EDX has been working with the leaders of the broadband industry since the mid 1990s. As WiMAX and other broadband wireless technologies have entered the marketplace, EDX has continued to work closely with the deployment leaders to assure that we have an accurate and flexible tool that will meet and exceed the needs of today's WiMAX deployment experts," said Jennifer Duncan, Executive Director of Business Development & Strategy for EDX.

<http://www.80216news.com/pubs/2006/10/19/page1299-238869.asp>

Green Hills Software DSO Solution Chosen by TeleCIS Wireless to Develop High-Performance WiMAX System-on-Chip, October 19, 802.16 News

Green Hills Software, Inc. announced that TeleCIS has chosen the Green Hills MULTI integrated development environment and the INTEGRITY real-time operating system to develop the industry's most cost-effective, lowest power, highest performance WiMAX fixed/portable System-on-Chip. The Green Hills solution allows a design that uses less memory and a more efficient CPU than alternative solutions. It provides TeleCIS customers with the lowest Bill of Material costs enabling the delivery of affordable residential Customer Premise Equipment.

<http://www.80216news.com/pubs/2006/10/19/page1299-239013.asp>

Intel launches WiMAX Connection 2250 upgradeable chipset, October 13, Engadget

More WiMAX news out of this week's big WiMAX World conference in Boston, with Intel following Nortel's lead in announcing some speedy new next-gen wireless gear. The company's just unveiled the Intel WiMAX Connection 2250, which is apparently the first system-on-chip able to support both fixed and mobile WiMAX networks, as well as all global WiMAX frequencies with the aid of Intel's discrete tri-band WiMAX radio. The chip will initially ship only with support for fixed 802.16-2004 WiMAX; however, an over-the-air firmware upgrade will magically endow it with mobile 802.16e-2005 support. Not one to waste any time, Intel's announced that Motorola will be integrating the chip into its CPEi 200 Series of WiMAX customer premise equipment, with "several other" manufacturers also expected to churn out Connection 2250-based products in 2007.

<http://www.engadget.com/2006/10/13/intel-launches-wimax-connection-2250-upgradeable-chipset/>

Intel Enables Rapid Delivery of WiMAX Networks with New AdvancedMC-Compliant Baseband Card, October 16, 802.16 News

Intel Corporation unveiled a new baseband card that helps speed the creation of WiMAX base stations. The Intel NetStructure WiMAX Baseband Card is Intel's first integrated hardware and software platform for transport, control and baseband processing in a standards-based Advanced Mezzanine Card (AdvancedMC) form factor. The new Intel card enables equipment manufacturers to accelerate time to market and reduce development and lifecycle management costs when building WiMAX base stations.

<http://www.80216news.com/pubs/2006/10/16/page1299-240159.asp>

Vendors Begin To Introduce WiMAX Infrastructure Gear, October 12, Information Week

WiMAX got the push it needed this week when Intel, Motorola, Nokia, and Nortel Networks announced plans to roll out WiMAX equipment for consumer and service providers. Commitment from established vendors means WiMAX could become a mainstream wireless broadband technology in the next two years. Motorola, at this week's WiMAX World conference in Boston, rolled out its first line of WiMAX consumer gear, a wireless modem that connects a customer's computer to a WiMAX service provider. The company is offering units that can be mounted outdoors to provide service outside, and a device that can be used inside a home or office. Motorola says it will make the devices available for trials later this year. They should be widely available in the first half of next year.

<http://www.informationweek.com/news/showArticle.jhtml?articleID=193300202&subSection=Breaking+News>

Nortel's CTO weighs WiMAX plans, October 13, Computer World

How is Nortel fitting WiMAX into its technology strategy? The transition from 3G [third-generation wireless] to 4G is interesting to us, because the 4G technologies, including WiMAX, are based fundamentally on MIMO/OFDM [Multiple Input Multiple Output/Orthogonal Frequency Division Multiplexing] technology. Nortel spent the last seven years pretty much inventing that technology. It's a logical fit. Nortel knows how to operate in a carrier ecosystem, so WiMAX is the way to go. We have trials with 802.16e equipment [using the mobile WiMAX standard] this fall, and Sprint Nextel expects to have networks up and running by this time next year.

<http://www.computerworld.com/action/article.do?command=viewArticleBasic&taxonomyName=wifi&articleId=9004126&taxonomyId=79>

<http://www.80216news.com/pubs/2006/10/16/page1299-239480.asp>

General WiMAX News

3G and WiMAX Are Buddies Now, October 13, Wireless Week

Ron Resnick, chairman of the WiMAX Forum, is getting tired of people asking him if WiMAX competes with 3G cellular technology. He says operators can choose whatever technology they want for broadband wireless access, but of course he thinks WiMAX is the best one. Wireless carriers using 2G or 3G technologies have the best networks for voice, Resnick told the WiMAX World USA show Thursday. But WiMAX was built from the ground up for data, he said, with a flat IP structure tuned better for bandwidth-intensive applications like video. "WiMAX is not a cellular voice technology," Resnick said. "It is a data technology designed to complement 3G." Despite his assertions of complementary technologies, Resnick also said mobile WiMAX is better than the technologies the 3GPP and 3GPP2 cellular worlds are eyeing for the future.

<http://www.wirelessweek.com/article/CA6380796.html>

New WiMAX products raise stakes in looming 4G battle, October 13, Network World

"There are dozens of products on the floor," says Craig Mathias, principle of The Farpoint Group, an Ashland, Mass., wireless consulting firm. "WiMAX is much more real this year. There's a lot more confidence that WiMAX can do what its proponents claim." There's also a lot more being claimed, partly because of this surge in products. This year, in keynotes and panels, WiMAX promoters more explicitly challenged cellular operators for the future of a digital, all-IP, mobile broadband network. The two rival cellular standards are Long Term Evolution (LTE), which is the direction guided by the 3G Partnership Project for WCDMA networks, and CDMA1x EV-DO Revision C, guided by the 3GPP2 and championed by Qualcomm.

<http://www.networkworld.com/news/2006/101606-wimax.html>

Getting the Picture on WiMAX, October 13, Wireless Week

Ask anyone at the WiMAX World USA show in Boston this week what the best applications will be for the broadband wireless technology and video will be on everyone's list. That application was demonstrated at

the show by CableMatrix and VCom, using the CableMatrix On-Demand Service Platform integrated with the VCom VistaMAX 802.16-2004 transmission gear. CableMatrix is known for its quality of service policy management solutions, while VCom designs and manufactures WiMAX base stations and transmission equipment.

<http://www.wirelessweek.com/article/CA6380802.html>

Du runs WiMAX tests before its year-end launch, October 15, Gulfnews

Dubai: While du, the country's second telecom operator races to meet its year-end launch deadline, it is also busily testing out next-generation technologies as it seeks to undermine etisalat's dominant position. After announcing in September that it would build a long-distance wireless broadband network using a technology called WiMAX, CEO Osman Sultan said yesterday it has already begun field trials on the new network. du, which is targeting a year-end launch, might use the network to provide mobile telecommunications and high-speed Internet that are accessible through both mobile phones, handset devices and computers.

<http://archive.gulfnews.com/articles/06/10/15/10074955.html>

<http://www.ameinfo.com/98961.html>

WiMAX Photo Journal, October 13, Unstrung

It was pretty clear from stalking the show floor at this week's WiMAX World show in Boston that the technology is real, even if operators and vendors still have a ways to go to build a pervasive wireless offering. Exhibitors displayed a wide range of WiMAX devices, from handhelds to desktop modems to massive outdoor hardware. One of the most intriguing stalls was showing off a raft of WiMAX concept devices under the "Xylo" moniker, although it appeared that they could all be customized and branded for the carrier or vendor that offers them to the end user.

http://www.unstrung.com/document.asp?doc_id=107397&WT.svl=news2_1

WiMAX gains full head of steam, October 13, Network World

Driving the wave is huge capital commitments in WiMAX chip development, radio frequencies and backbone gear, said keynoter Sean Maloney, Intel's chief sales and marketing officer. And interest in WiMAX is coming from all quarters, from wireline and wireless carriers to government agencies and local municipalities, said Gregory Brown, Motorola's president of networks and enterprise. They all salivate over the high-speed, low-cost promise of WiMAX. The 802.16d spec supports fixed (but portable) point-to-point data speeds from 1M to 5Mbps, with peaks of 20Mbps possible, and the 802.16e revision will add full mobility.

<http://www.networkworld.com/columnists/2006/101606edit.html>

Seeking a Voice in the WiMAX Future, October 16, TopTechNews

A battle is brewing that may well decide how Europeans connect to the Internet using cell phones, laptops and other portable devices in the coming decade. Mobile phone companies, chip makers and manufacturers of wireless networks are pushing their sometimes conflicting cases for how the limited amount of radio frequencies should be used to beam data from the Internet to mobile devices and back the other way, a decision that generally is left to national governments.

http://www.toptechnews.com/news/Seeking-a-Voice-in-the-WiMax-Future/story.xhtml?story_id=100009TZT25G

Assuring Sufficient Receiver Dynamic Range for WiMAX Transceivers, October 16, Wireless Design & Development Asia WiMAX is a form of BW that is based on the IEEE 802.16 standard for wireless MANs. It can be used for a variety of applications including a "last-mile" broadband connection, hotspot and cellular backhaul and high-speed enterprise connectivity for businesses. One fixed version of WiMAX, IEEE 802.16d, provides NLOS transmission to stationary devices using 2 to 11GHz frequencies over distances of approximately four to six miles. The mobile version of the standard, 802.16e, is an extension of 802.16d for

mobile use in the 2 to 6GHz band. It allows WiMAX technology to be built into notebook computers and other mobile devices. These NLOS and mobile applications, in which received signal levels can vary over an extremely wide range, call for receivers combining low noise figure for sensitivity with wide dynamic range to assure reliable service at data rates that users/subscribers anticipate.

<http://www.wirelessdesignasia.com/article.asp?id=3422>

Defining the WiMAX Metropolitan Landscape, October 13, Broadband Wireless Online

In a special article on Unstrung, wireless analyst Craig Mathias reports on his admittedly biased perceptions from the recent WiMAX World conference held in Boston this past week. Mathias attempts to place WiMAX in its proper context relative to the overall wireless landscape. For his part, Mathias believes WiMAX is a metro-area wireless technology, destined to realize its best effect in licensed bands. Its footprint will be in cells of 2 kilometers or so. These places the technology squarely in competition with EV-DO and UMTS, but with potentially as much as a three year lead on these competing approaches.

<http://www.shorecliffcommunications.com/magazine/news.asp?news=5584>

Why Does WiMAX Matter?, October 13, Wireless Week

The wireless infrastructure market represents about a \$40 billion market. Wireless as a whole is a market at least four times that value. By contrast, WiMAX is expected to represent only a few percent of that. So why does WiMAX matter? According to Rupert Baines, vice president of marketing for picoChip, there are five reasons WiMAX is important. 1. It is the first global standard. Looking around WiMAX World, it is obvious it is very international with companies offering products from around the world. It is totally different than GSM or CDMA evolution, which pitted different parts of the world against each other. 2. WiMAX changes the traditional telecom or wireless business model. WiMAX drives the pace of change with open interfaces and re-use of standards.

<http://www.wirelessweek.com/article/CA6380800.html>

Tranzeo Wireless Presents Its New 802.16 WiMAX Products, October 19, 802.16 News

Tranzeo has unveiled its long awaited integrated 802.16 WiMAX products. WiMAX, a technology that offers long range and worldwide interoperability in a number of license and unlicensed bands, is a natural progression for Tranzeo Wireless Technologies' successful offerings. WiMAX is also a standard based technology improving the delivery of last mile wireless broadband access as an alternative to wired broadband like cable and DSL. "With a growing number of Internet Service Providers embracing the WiMAX global standardization of compliance and interoperability we feel Tranzeo will have immediate impact into the market place with our new WiMAX products," said Tony Kot, Vice President of Sales & Marketing. "WiMAX (802.16d) technology offers Service Providers the next generation of cost effective robust wireless broadband networking solutions."

<http://www.80216news.com/pubs/2006/10/19/page1299-239473.asp>

Wireless Access Technologies Create Broadband Threats and Opportunities for Fixed and Mobile Carriers, October 18, 802.16 News

Improvements to Broadband Wireless Access (BWA) technologies have renewed the debate over the place in the telecom market for fixed and mobile WiMAX, traditional 3G technologies and their offspring -- UMTS TDD, FLASH-OFDM and iBurst. New BWA technologies are expanding consumer services and selection, forcing mobile and fixed carriers to either upgrade or pursue a dual network strategy. Alternative BWA technologies are evolving quickly. The biggest change in the BWA industry is undoubtedly the WiMAX ecosystem's shift toward a new mobile standard. Alternative broadband wireless technologies have now been tested in actual conditions in many commercial deployments.

<http://www.80216news.com/pubs/2006/10/18/page1299-243283.asp>

EION Expands WiMAX Deployments in Libya & Eastern Europe, October 16, 802.16 News

EION Wireless, providers of intelligent broadband wireless backhaul and access solutions, announced that its Libra MAX platform has been chosen for two nationwide WiMAX network expansions in Libya and Kyrgyzstan. "We selected EION's Libra MAX Platform Solution based on EION's long history of providing reliable broadband wireless connectivity solutions worldwide" said Dr. Aref Nayed, Managing Director of Agathon Systems. "We are impressed and pleased with EION's high level of commitment to technical support and to customer satisfaction, which encouraged our Banking Customer in Libya to make a second large scale expansion of their nationwide Libra MAX Network"

<http://www.80216news.com/pubs/2006/10/16/page1299-240146.asp>

WiMAX experiment starts on Galapagos Islands, October 18, The Inquirer

The islands that gave Darwin some notions about evolution are also the subject of a WiMAX experiment sponsored by Intel, I have good reason to believe. Intel is putting serious money installing hardware and software that will link the variegated islands together for boffins and boffinettes to share their data with each other. Intel is a scientific company and emotions don't rage there, except, of course, in their periodic reviews where bosses and employees can rant away at each other until the cows come home.

<http://www.theinquirer.net/default.aspx?article=35191>

Power Amplifier suits 802.16 WiMAX Base Station applications, October 18, ThomasNet

Model ZPA3436-5W amplifier operates over 3.4-3.6 GHz band with typical gain of 46 dB and 37 dBm OFDM output power for 64 QAM, 3/4 Coding, 3.5 MHz channel bandwidth, and 256 carriers. Biased at 28 V, high linearity power amplifier achieves EVM performance of 2% at 37 dBm linear output power, and draws 3.5 A dc current. Design is lead free and SMA connectorized package measures 9 x 4 x 1.5 in. without external heat sink.

<http://news.thomasnet.com/fullstory/800748/148>

D-Link Unveils its First WiMAX Router, October 18, TMCNet

The new router, which combines both WiMAX and WiFi technologies, is designed for service providers looking to offer wireless residential services at rates competitive with wire-line technologies. WiMAX is an alternative for delivering high speed broadband to consumers who live in areas where it is too difficult - and too costly - to roll out DSL or cable. The router is easy to install, provides coverage for an entire home, and can be managed from a service provider's central office.

<http://www.tmcnet.com/wifirevolution/articles/3163-d-link-unveils-its-first-wimax-router.htm>

<http://www.net-security.org/news.php?id=12630>

http://www.techtree.com/India/News/D-Link_Announces_WiMAX_Router/551-76639-615.html

<http://www.networkworld.com/news/2006/101906-dlink-wimax.html>

Taiwan WiMAX win, October 18, Telegeography

California-based wireless equipment supplier Proxim has won a contract to supply a fixed WiMAX network to Asia Pacific Telecom Group (APTG) of Taiwan. The network will be deployed in the city of Taichung, which is the country's third largest city with a population of around one million. The APTG group consists of three firms: Asia Pacific Broadband Telecom (APBT), Asia Pacific Broadband Wireless (APBW) and Asia Pacific Online (APOL), with APBT responsible for the new WiMAX system. The WiMAX network will complement APBW's existing CDMA-based cellular network, which is already carrying 3G services.

http://www.telegeography.com/cu/article.php?article_id=14860&email=html

WiMAX requires dedicated RF test routines

The original intention of WiMAX was to replace broadband cable networks such as DSL. With the adoption of the 802.16e-2005 standard, broadband mobile radio applications can now also be implemented. This has become possible through extensions at the MAC layer, which handles call setup and data processing. There

have also been significant improvements to the physical layer of the standard. As the WiMAX standard continues to evolve, there is a demand for test systems for characterising and verifying the RF characteristics of communications equipment. While stationary applications primarily employ the OFDM multi-carrier method, mobile applications use the - expanded - OFDMA method exclusively.

<http://www.electronicsweekly.com/Articles/2006/10/19/39971/WiMAX+requires+dedicated+RF+test+routines.htm>

