

WiMAX Forum News

Weekly Clip Report November 17-22

Articles of Note

Celestica Joins Freescale and Wavesat to Offer Production-Ready WiMAX Reference Design,

November 22, Wireless Design & Development Asia

Customer premises equipment manufacturers can now deliver WiMAX-enabled products to market even faster with a production-ready reference design from Freescale Semiconductor, Wavesat and Celestica. Celestica, a world leader in electronics manufacturing services, has joined a pre-existing collaboration between Freescale and Wavesat to enhance a comprehensive platform for the rapid creation of WiMAX-enabled products. The three companies plan to demonstrate the platform at the Freescale Technology Forum in Bangalore, India on Nov. 14 and 15.

<http://www.wirelessdesignasia.com/article.asp?id=3709>

<http://www.shorecliffcommunications.com/magazine/news.asp?news=5689>

AT&T trials mobile WiMAX, November 20, Telegeography

The largest wireline telco in the US, AT&T Inc, has revealed that it has been operating a mobile WiMAX trial in Nevada for several months. Telephony Online reports that the firm is using pre-certification mobile WiMAX technology from Soma Networks for its pilot trials in the Nevada town of Pahrump, which is home to around 45,000 people. AT&T is currently using the network as a fixed wireless broadband system, providing an alternative to wired high speed technologies such as cable and DSL. However, the equipment which has been deployed is based on the mobile WiMAX 802.16e specification. AT&T has limited WiMAX-ready spectrum in the 2.3GHz Wireless Communications Services band.

http://www.telegeography.com/cu/article.php?article_id=15461&email=html

http://telephonyonline.com/wimax/marketing/att_mobile_wimax_111606/

<http://www.dslreports.com/shownews/79687>

<http://www.shorecliffcommunications.com/magazine/news.asp?news=5693>

Potential for Mobile WiMAX & Traditional 3G Technologies Such as UMTS TDD, FLASH-OFDM and iburst, November 22, Broadband Wireless Exchange Magazine

Research and Markets has announced the addition of Broadband Wireless Access - Potential for Mobile WiMAX & Alternative BWA Technologies to their offering. There are many signs of a renewed interest in Broadband Wireless Access technologies: the much-discussed Sprint Nextel decision to select mobile WiMAX for its 2.5 GHz network, carriers taking a careful look at the advanced Korean market, and the huge sums reached at recent spectrum auctions. Broadband wireless access technologies indeed stand to benefit from many factors: Broadband is going mass market Consumers are increasingly Mobile telephony leads the telecommunications market Data services represent an increasing share of total mobile ARPU Growing network capacity needs and the debate over net neutrality are giving alternative access technologies a boost Laptop computer sales are rising, while PDAs and mobile handsets are evolving towards smarter and more powerful devices integrating PC-like functionalities.

<http://www.bbwxchange.com/pubs/2006/11/22/page1423-284745.asp>

WiMAX Forum Member Company News

Taiwanese firms plan WiMAX for use in homeland security, November 22, WiMAX Day

At the Homeland Security Symposium and Exhibition in Taiwan last week, local companies Acer and Tecom announced that they will launch a joint venture of research and development for WiMAX applications in homeland security. The new project builds on work that the two companies are already conducting for the Taiwanese Ministry of National Defense to build wireless military communications systems. According to a

report in the *Taipei Times*, Lai Shih-lung, manager of aeronautics business department at Acer noted that police, fire and other emergency offices in Taiwan operate independently from one another, which are difficult to coordinate in emergency situations. Lai indicated that the use of WiMAX would help to integrate different government agencies during an emergency, especially given the distance at which WiMAX can transmit communication.

<http://www.wimaxday.net/site/newsletter>

Comstar-UTS Announces Purchase of WiMAX License in Ukraine, November 18, Broadband Wireless Exchange Magazine

United TeleSystems (LSE: CMST), the leading provider of integrated telecommunication services in Russia and the CIS, announced that its Ukrainian subsidiary, "Technological Systems", has received a license for provision of WiMAX-based services in the range of 5.4 - 5.7 GHz through a regional tender in Kiev, Kiev region, Odessa, Odessa region, as well as in Lvov and Lvov region. The total cost of this license was US\$ 0.8 million. The market for broadband services in Ukraine is currently estimated to grow at an annual growth rate of 20-30%. "Technological Systems" will use this license to rollout a full-scale wireless network in the largest business centres of the country, where the development of broadband services is slowed down by the lack of fixed line infrastructure. "We are very enthusiastic about the dynamic growth of broadband services in Ukraine. We believe that Kiev and other regions in Ukraine, which are covered by our license, have significant development potential from the rollout of WiMAX-based services."

<http://www.bbwxchange.com/pubs/2006/11/18/page1423-283378.asp>

LongBoard and France Telecom Jointly Develop Multimedia Roaming Solution for GSM, GPRS, CDMA, UMTS, Wi-Fi, and WiMAX Wireless Networks, November 18, 802.16 News

France Telecom and LongBoard, Inc., a leading provider of software that enables personalized multimedia services, announced that they have signed a partnership to jointly develop and deliver an innovative, IMS-compliant multimedia roaming solution. The multimedia roaming solution, which is already being developed and is expected to be commercially available in early 2007, enables service providers to deliver seamless multimedia services with high-speed handover and service assurance across multiple access networks including GSM, GPRS, CDMA, UMTS, Wi-Fi, and WiMAX. This jointly developed multimedia roaming solution will be marketed by LongBoard to its customers.

<http://www.80216news.com/pubs/2006/11/18/page1299-281586.asp>

PicoChip Plants R&D in Beijing, November 21, Electronic News,

Software-defined radio solutions provider picoChip has established a new development center in Beijing, China—adding to the growing amount of enthusiasm for doing business with the republic.

PicoChip is no newcomer to China, however: the company already has an engineering facility in Shenzhen and a sales office in Shanghai. PicoChip has been working in China since early 2003, when it established a partnership in the form of a joint development centre with China-based computer programming services company Millennium Meshwork Data Systems Co. Ltd. PicoChip also maintains a partnership with Beijing University of Posts and Telecommunications' wireless signal processing and network lab (WSPN-BUPT) that is focused on developing wireless systems based on TD-SCDMA and commercial WiMAX systems optimized for the Chinese market.

<http://www.edn.com/index.asp?layout=article&articleid=CA6393873&ref=nbednnews&industryid=2282>

'WiMAX' Provider Clearwire Conducts Agency Search, November 21, Advertising Age

Clearwire, a start-up wireless-broadband internet service provider headed for a battle with cable and telecom companies also competing to offer internet service, is seeking a new advertising agency. Clearwire was founded by Craig McCaw, whose earlier company, McCaw Cellular, was purchased by AT&T and became the original AT&T Wireless. Three agencies are vying for the business: the Los Angeles offices of M&C Saatchi and Omnicom Group's DDB Worldwide, and Interpublic Group of Cos.' Richards Group, Dallas. The incumbent was St. John & Partners, Jacksonville, Fla., which launched the service locally using

neighborhood-specific newspaper ads and ads on dry-cleaning bags.

http://adage.com/article?article_id=113409

Redline Lands WiMAX Contract in Iraq, November 20, Wireless Week

Redline Communications landed a deal to bring a WiMAX network to Iraq. IraqTel plans to use Redline's RedMAX products to power the network. Terms of the agreement were not disclosed. IraqTel, a telecom subsidiary of Al Emaar Holding Group, says the deployment represents the first WiMAX network in Iraq. IraqTel will deliver advanced voice and broadband services over the Redline network. The company will begin its deployment in Basrah, with plans to expand the WiMAX network across additional regions in Iraq. It has been a busy month for Redline. The company recently teamed with I-Systems to launch a wireless broadband service in Lake Llanquihue, Chile. The service, which targets business users, is powered by Redline's AN-50e, part of the RedConnex line of broadband wireless infrastructure products. I-Systems installed the AN-50e network to establish the high-speed wireless connections over distances ranging from 12 km. to 32 km. in the Lake Llanquihue region.

<http://www.wirelessweek.com/article/CA6393566.html>

Aeroflex Measures WiMAX, November 20, Unstrung

Aeroflex has announced that it has added significant new wireless test capabilities to its PXI 3000 Series modular wireless test platform to aid the rapid production testing of the most popular consumer mobile devices. Within a single software-definable PXI modular platform, the Aeroflex PXI 3000 Series now includes support for WiMAX OFDMA, 1xEvDO and HSPA. With the addition of these new measurement suites, the Aeroflex modular RF test systems now allow testing of cellular, WLAN and WiMAX in one product, whereas competitive test systems must be configured from numerous instruments making them more costly, bulky, slower and harder to integrate. "Manufacturers are continuously demanding increased test coverage as they strive to keep their test systems up-to-date with the latest wireless standards. Aeroflex is unique because our modular platform is hardware re-configurable to support different frequency ranges and analysis bandwidths.

http://www.unstrung.com/document.asp?doc_id=111042&WT.svl=wire1_1

<http://www.wirelessdesignasia.com/article.asp?id=3695>

Golden Telecom applies for WiMAX frequencies in Russia, November 20, Cellular News

US-registered telecommunications operator Golden Telecom, which has key operations in Russia and the Commonwealth of Independent States (CIS), has applied to get frequencies for WiMAX broadband wireless communications, Golden Telecom's Corporate Relations Department Director Anna Chin Go Pin told Prime-Tass Monday. The company applied for frequencies in 2.5 gigahertz to 2.7 gigahertz frequency range with the State Radio Frequency Commission, she said. "We plan to cover all major cities with populations over 400,000 people and the Moscow Region," she said.

<http://www.cellular-news.com/story/20501.php>

Alvarion's BreezeMAX Now Enables Primary Voice Services Over WiMAX, November 22, Wireless Design & Development

Alvarion Ltd. announced the availability of primary voice services over WiMAX enabled by the latest edition of BreezeMAX, Alvarion's WiMAX Certified system. This ability to deliver primary voice services using existing TDM infrastructure, in addition to its broadband service capabilities, means incumbent (ILECs) and competitive local exchange carriers (CLECs) can adopt WiMAX as their basic network strategy. As the first commercial WiMAX system to support V5.2 interfaces, coupled with its existing VoIP capabilities, BreezeMAX can now interface directly with both legacy and next generation voice networks according to carrier needs. Over the past few months, the primary voice services of BreezeMAX have been tested with carriers in Africa and South America, and approved as interoperable with various vendors' Class 5 switches. As a result of these trials, two operators in Africa are leveraging their TDM switches by deploying this BreezeMAX voice and data solution. In addition, operators in Latin America are evaluating the solution for

deployment in urban areas to cover unserved areas.

<http://www.wirelessdesignasia.com/article.asp?id=3693>

WiMAX Blows Into Nevada, November 17, Wireless Week

Rural Nevada may not seem like a hot-bed for wireless technology, but AT&T has put it on the map as the first location in the United States with commercial WiMAX. AT&T says it has launched WiMAX in Pahrump, Nev., which is located about 60 miles outside Las Vegas and which may be most famous for being featured on a recent episode of NBC's Studio 60. AT&T is using equipment from Soma Networks which it calls "WiMAX-ready" because it has not yet been certified. The equipment is designed for the mobile WiMAX standard, 802.16e-2005, although AT&T is using it in a fixed mode in Pahrump. The carrier is marketing the Pahrump WiMAX network as "AT&T Yahoo! High-Speed Internet" with downstream speeds up to 1.5 Mbps and upstream speeds up to 384 kbps. The service is priced at \$29.99 a month, with the required equipment offered free after a rebate.

<http://www.wirelessweek.com/article/CA6393023.html>

Alcatel and GDS trial Lebanese WiMAX, November 17, Telegeography

Alcatel is partnering Lebanese ISP Globalcom Data Services (GDS) to conduct the first IEEE 802.16e-2005 WiMAX trial in the Middle East, beginning later this month. The trial is designed to help GDS assess the suitability of WiMAX before embarking on a commercial rollout next year. The French vendor will supply GDS with its 9100 Evolium WiMAX end-to-end radio solution, including base stations, wireless access controller, operation and maintenance center as well as indoor CPE (Customer Premises Equipment) to provide broadband wireless internet access at a burst rate of up to 12Mbps. 'GDS is planning to provide broadband access all over Lebanon by the end of 2007. In large cities, broadband access will be provided through DSL and WiMAX will act as a complement to DSL. Outside the large cities, WiMAX will be the primary access,' said Dr Habib Torbey, President of GDS, who predicted 'a big potential for WiMAX technology in Lebanon in the near future...we are looking forward to extending our partnership with Alcatel... We plan not only to be the first service provider to introduce WiMAX technology in Lebanon, but also in the entire Middle Eastern market.'

http://www.telegeography.com/cu/article.php?article_id=15436&email=html

Alcatel and ACCA to expand 802.16e WiMAX trials to urban areas in Japan, November 17, Telegeography

Japanese communication service company ACCA Networks and French equipment manufacturer Alcatel have announced the successful completion of WiMAX trials in the sub-urban area of Yokosuka Research Park, and say they now plan to expand the tests to include the urban area of Yokohama city from December 2006. ACCA will be the first provider in Japan to conduct 802.16e-2005 WiMAX verification testing in both sub-urban and urban areas, allowing it to ascertain the respective characteristics of both types of areas. Alcatel has provided ACCA Networks with its 9100 Evolium WiMAX end-to-end radio solution, including base stations, wireless access controller, operation and maintenance centre as well as indoor Customer Premises Equipment (CPE) mobile terminals and integration services. The trial, operating in the 2.5GHz frequency band and based on Universal WiMAX IEEE 802.16e-2005 standard, marks an important step towards offering commercial services in Japan.

http://www.telegeography.com/cu/article.php?article_id=15427&email=html

<http://www.digitalmediaasia.com/default.asp?ArticleID=19838>

<http://www.80216news.com/pubs/2006/11/18/page1299-282767.asp>

Clearwire, Sprint Nextel settle Seattle WiMAX spectrum squabble, November 17, RCR News

Sprint Nextel Corp. has agreed to settle a lawsuit that it filed in July against Clearwire Corp., according to a record of court filings in Johnson County, Kan. The suit involved the use of WiMAX spectrum in Seattle, Wash., according to a report in the Kansas City Business Journal. The companies had reportedly worked out a deal in which Sprint Nextel would "turn off" some of its WiMAX spectrum in Seattle so as not to

interfere with Clearwire's services, and in exchange Sprint Nextel would be able to use some of Clearwire's spectrum. Then Clearwire apparently purchased a 49-percent stake in a WiMAX license holder, Lois Hubbard Communications L.L.C., that Sprint Nextel already had a licensing agreement with. The move prompted Sprint Nextel, which claims it had first rights of refusal on the spectrum, to sue Clearwire.

<http://rcrnews.com/news.cms?newsId=27788>

<http://wirelessweek.com/index.asp?layout=newsBreakingMore&starting=29>

IQmax WiMAX Testing for Mobile WiMAX Solutions Now Supported by LitePoint System, November 17, 802.16 News

LitePoint Corporation announces support for Mobile WiMAX on the IQmax one-box test system. Based on an integrated Vector Signal Analyzer (VSA) and Vector Signal Generator (VSG) architecture, the single-box IQmax Test System can test critical WiMAX physical layer parameters for developers, volume manufacturing test and quality assurance (QA) stations at the lowest possible cost. "This latest software upgrade of the IQmax Test System demonstrates the flexibility of the one-box test solutions from LitePoint and shows our continued commitment to our customers to provide the lowest cost-of-test manufacturing and Q/A solutions in the market," said Greg Ravenscroft, President / Advanced Development at LitePoint Corporation. Mr. Ravenscroft continued, "After pioneering advanced WiFi, MIMO, and Bluetooth test solutions, LitePoint now also offers similar testing capabilities for fixed and mobile WiMAX products."

<http://www.80216news.com/pubs/2006/11/17/page1299-279932.asp>

[General WiMAX News](#)

US aid agency's initiative brings internet to rural Vietnam, November 21, Thanhnien News

A US Agency for International Development (USAID) program has helped many rural parts of Lao Cai province in northern Vietnam have Internet access. In October, the Last Mile Initiative launched WiMAX technology, or "WiFi [wireless fidelity – a wireless method of connecting with the Internet] on steroids," according to Juan A. B. Belt, director of the Office of Infrastructure and Engineering in USAID's Bureau for Economic Growth, Agriculture and Trade (EGAT). The program, which also plans to open 60 technology-governments in both countries. Like WiFi, WiMAX offers wireless broadband Internet connectivity, but with a much greater range.

<http://www.thanhniennews.com/education/?catid=4&newsid=22434>

Golden Telecom wants WiMAX, November 21, Telegeography

Russian broadband operator Golden Telecom has applied for a concession which will enable it to roll out wireless broadband networks. The telco has reportedly applied to the State Radio Frequency Commission for spectrum in the 2.5GHz-2.7GHz band. A company spokesperson told Prime Tass: 'We plan to cover all major cities with populations over 400,000 people and the Moscow Region.' Golden Telecom has already launched trial WiMAX networks and is also deploying a city-wide Wi-Fi system in Moscow.

http://www.telegeography.com/cu/article.php?article_id=15489&email=html

Vodacom seeks way into WiMAX, November 21, Telegeography

South Africa's largest cellular operator Vodacom is looking to enter the country's broadband wireless market by buying into one of four WiMAX licence holders. Vodacom CEO Alan Knott-Craig confirmed in a statement that his company has moved to acquire a stake in Wireless Business Solutions (WBS), which trades under the name iBurst. iBurst already provides broadband internet services via fixed wireless networks and is testing WiMAX technology, but has not yet settled on a WiMAX strategy. The exact details of the deal were not released.

http://www.telegeography.com/cu/article.php?article_id=15490&email=html

Upwardly Mobile: That WiMAX 3G phone tablet thing, November 20, Silicon.com

Jo Best weighs in on the mobile plans for this much-hyped wireless technology. Remember the UMPC - or ultra mobile PC to the uninitiated? Remember when the first lot of the Windows-powered mini-computers came out, how we scoffed that they wouldn't replace any of the dainty gadgets we carry day to day? I could be wrong here but I think Samsung may have cracked that whole mobile-PC convergence thing. Behold the delightfully sci-fi Samsung SPH-P9000. The P9000 is not strictly a UMPC, it's a more mobile-centric type of device and far smaller - about half the size of Samsung's first UMPC. I haven't tried it out yet and the device is not perfect but the form factor alone shows that there really is some interesting work going on around the convergence of mobiles and PCs.

<http://networks.silicon.com/mobile/0,39024665,39163949,00.htm>

Urban WiMAX to raise £35m to fund expansion of UK network, November 20, ITPRO

Money will be used to extend London-based WiMAX wireless data network nationwide. Wireless broadband network operator Urban WiMAX has announced plans for a £35m fundraising to finance a national roll-out for its WiMAX wireless broadband service. The company has appointed investment bank Rothschild to advise it on the planned fundraising, which when completed will see the company begin deploying its WiMAX service, which is already running in parts of Central London, to other urban centres across the UK. The London WiMAX service is due to launch fully in January. Urban WiMAX has also suggested that it might pursue acquisitions of companies holding WiMAX licenses and other wireless broadband operators as a way of expanding its fledgling business.

<http://www.itpro.co.uk/networking/news/98312/urban-wimax-to-raise-35m-to-fund-expansion-of-uk-network.html>

Middle East Sees Another Mobile WiMAX Trial in Lebanon, November 20, Broadband Wireless Exchange Magazine

Globalcom Data Services (GDS), a ISP, has selected communications solutions provider Alcatel to conduct the first IEEE 802.16e-2005 WiMAX trial in the Middle East. The trial, which will commence this month, is expected to help GDS assess the capacity of WiMAX prior to its commercial deployment in Lebanon. Alcatel will supply its 9100 Evolium WiMAX end-to-end radio solution, to include base stations, wireless access controller, operation and maintenance centre. It will also provide GDS with indoor Customer Premises Equipment (CPE). According to Alcatel its solution will offer broadband wireless Internet access at a burst rate of up to 12Mb/s. GDS is intending to introduce broadband access across Lebanon by the end of next year, with service provided through DSL and WiMAX.

<http://www.bbwxchange.com/pubs/2006/11/20/page1423-283753.asp>

Iraq to get WiMAX, November 20, Telegeography

Iraqtel, one of the recipients of the national wireless in the local loop (WiLL) licences awarded in September, has announced it will be deploying a WiMAX network in association with Canadian vendor, Redline Communications. Initially covering Basrah in the south, Iraqtel intends to expand the network across the country, providing a cost-effective alternative to VSAT for broadband connections.

http://www.telegeography.com/cu/article.php?article_id=15465&email=html

GaN Power Amps suit WCDMA, WiMAX, and PMR applications, November 20, ThomasNet

Gallium Nitride (GaN) wideband power amplifier (PA) ICs operate on 28 V rail and include internal-matching elements to deliver 50 ohm interface. WiMAX power amp ICs, RF3821 and RF3823, are 8 W units with respective ranges of 2.3-2.7 and 3.3-3.8 GHz and linear output power of 29 dBm. Cellular PA IC, RF3820, has 1.8-2.2 GHz range and provides 27 dBm linear output power. Public Mobile Radio (PMR) PA IC, RF3822, has 100-1000 MHz range and provides 12-14 W saturated output power.

<http://news.thomasnet.com/fullstory/499463/772>

Unwired world, November 20, India Times

WiMAX promises high-speed mobile data and telecom services India is finally getting rid of cable connectivity. Last month Chennai was declared the first WiMAX enabled city. Then Pune followed suit. Or the other way around. In between, Bangalore and Hyderabad also declared they were offering the same services. Some of course duck the fact that they don't offer 100 per cent availability or access yet. However, as of two weeks ago, Baramati, a small city near Pune, seemed to have pipped all the others. Whatever the truth, the fact is both metropolitan and mofussil India are falling over themselves trying to provide wide-area broadband wireless access to its consumers.

http://timesofindia.indiatimes.com/OPINION/Editorial/Unwired_world/articleshow/462728.cms

WiMAX Climax, November 20, Law.com

WiMAX wasn't a hot wireless broadband technology already; some serious fuel was added to the fire this summer. Intel Corp. and Motorola Inc. unveiled plans to invest more than \$1 billion in Clearwire Corp., which is building a network that will offer the longer-range broadband access. Sprint Nextel Corp., meanwhile, committed \$3 billion in the coming years to build a wireless high-speed network. Still unclear is how enterprises can take advantage of WiMAX. Even Intel concedes that the focus of its WiMAX efforts has been on the consumer. While the standard holds potential for businesses, it also presents complexities. "A computing mobile networking strategy is what enterprises are thinking about," says Craig Mathias, a principal with Farpoint Group. "But they are also asking, 'Do I use cellular technology or WiFi, do I wait for WiMAX or will there be a convergence of two or more of those technologies?' The ultimate answer is very complicated."

<http://www.law.com/jsp/legaltechnology/pubArticleLT.jsp?id=1163757925766>

O2'S Winners and Losers, November 17, Mobile Europe

There was good news for ip.access and its backers as Williams was enthusiastically waving around one of ip.access' 3G femto cells, which contains the PicoChip multi-core DSP hardware and modem software. Williams thinks there is great potential in in-home and in-building 2G and 2G coverage, integrated with a WLAN router, to provide free or very cheap mobile coverage for voice and data when within the home. The other upside for an operator is that it can of course effectively get its customers to pay for building out its own network. Williams said the FemtoCell would auto-discover other neighboring cell sites, making sure the radio plans didn't interfere with each other, and registers directly back to the MSC over a DSL connection. Users can effectively be offered within the home using their existing handset.

http://www.mobileeurope.co.uk/news/news_story.ehtml?o=2619

India Falters With WiMAX Due to Spectrum Conflicts, November 20, EETimes

An article featured on EETimes reveals potential pitfalls in India for WiMAX deployments. The problems seem to hinge largely upon a significant spectrum conflict in the 2.5 to 2.69 GHz bands. That spectrum in India is controlled by the country's Department of Space for its Insat satellites. the DoS has zero plans to give the spectrum up. The next alternative band ideal for WiMAX is in the 3.3 GHz to 3.4 GHz band and the country's Telecom Regulatory Authority has suggested 100 MHz at this frequency. But once again the DoS controls the 3.4GHz to 3.6 GHz bands in India.

<http://www.eetimes.com/news/latest/showArticle.jhtml;jsessionid=RIXZDNZL5KQSOQSNLDPCKH0CJUNN2JVN?articleID=194400169>

<http://www.shorecliffcommunications.com/magazine/news.asp?news=5688>