

WiMAX Forum News

Weekly Clip Report December 1-7

Articles of Note

Swiss regulator plans auction of 3.5 GHz WiMAX licenses, December 6, WiMAX Day

The Federal Office of Communications (OFCOM) in Switzerland yesterday announced a tender offer for two national Broadband Wireless Access (BWA) licences. According to a statement made by OFCOM yesterday, the licences are for spectrum in the 3.4 ~ 3.6 GHz frequency range. One licence will be awarded with bandwidth of 2 x 21 MHz and the second license will have 2 x 17.5 MHz. The licenses will enable the provision of national services, and are technology neutral but understood to be aimed for use with WiMAX. The licenses will provide for fixed point-to-multipoint services, and allow roaming from a terminal at any location. In the medium term OFCOM also plan that the licenses will allow for mobile services as well.

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

Redline debuts on AIM market, December 6, WiMAX World

Redline Communications had its debut today on the London stock exchange in a placement of 13 million shares. The placement was well received by traders early today and at mid-day the market capitalisation stood at £78.9 million (\$US 155 million). At the issue price, Redline raised £13 million (\$US 25.5 million). The flotation on the AIM market was undertaken by Canaccord Adams Limited and CIBC World Markets. Previous investors in Redline included Matrix Partners, US Venture Partners and GF Private Equity Group. Redline joins a growing list of publicly-quoted WiMAX equipment vendors that includes Alvarion and Airspan. Redline has had a string of successes in the last few months, including new product placements in Iraq, Pakistan and Chile, as well as being named among the 2006 "Best of WiMAX World" award program honorees.

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

Agilent offers WiMAX eSeminar and tool kit CD free-of-charge, December 1, EMS Now

Agilent's "Testing Mobile WiMAX Radios from Pre-Certification Through Manufacturing" eSeminar is specifically targeted at WiMAX chipset developers and reference designers and integrators. Participants learn about the radio tests that can be tackled using a standard Vector Signal Analyzer and Generator, including those specified in the WiMAX Radio Conformance Test (RCT) document. The eSeminar also provides insight into the test objectives and configuration needed to evaluate devices during design validation, integration and initial manufacturing. The Agilent WiMAX Tool Kit CD gives engineers information needed to simulate, troubleshoot and verify designs for 802.16-2004 and 802.16 OFDMA applications. "Agilent stands as a true innovator and leader in standard-compliant 802.16 design and test tools, providing solutions for testing fixed and mobile WiMAX throughout the entire WiMAX lifecycle," said Guy Sene, vice president and general manager of Agilent's Signal Analysis Division.

<http://www.emsnow.com/npps/story.cfm?ID=23470>

<http://www.bbwexchange.com/pubs/2006/12/04/page1423-369158.asp>

DiGi, MIB emerge as front runners for WiMAX licence, December 2, Business Times

DIGI.com Bhd, the country's smallest mobile operator by subscribers, and MIB Comm Sdn Bhd have emerged as the front runners to secure the first two of four mobile WiMAX licences on offer, executives from two rival companies who submitted bids for the WiMAX licence said. The licences for WiMAX, a new technology that could blanket towns with wireless Internet connection, are due to be awarded in the first quarter of next year. The Malaysian Communications and Multimedia Commission (MCMC), the communications industry regulator, is expected to submit its own recommendation to the ministry by

December 15, industry sources said. Business Times was told that although a firm decision has yet to be made by MCMC, the two companies have strong support at the ministry level.

http://www.btimes.com.my/Current_News/BT/Monday/Column/BT597209.txt/Article/

WiMAX gaining momentum, but unlikely to threaten 3G in Asia/Pacific this decade, December 1, Semiconductor Today

Telecom providers have made significant efforts to compete with wireless 3G services with various broadband wireless technology (BWA) in the Asia/Pacific market, says market research firm In-Stat in its report 'Cellular vs. Wireless Broadband in Asia/Pacific'. However, for at least another five years, BWA in the form of WiMAX is unlikely to pose a big threat to 3G, as it will take longer to mature. "Telecom providers introduced BWA technologies to tap into the wireless trend, accelerate wide market diffusion, and to provide consumers with an alternative or complementary value proposition," says analyst Bryan Wang. "However, a lack of standardization and interoperability issues has not augured well in adoption rates for most proprietary BWA technologies."

http://www.semiconductor-today.com/news_items/NOV_06/WIMAX_301106.htm

<http://www.itweek.co.uk/vnunet/news/2169816/asia-3g-wimax-forecasts>

[http://today.reuters.co.uk/news/articlenews.aspx?storyid=2006-12-](http://today.reuters.co.uk/news/articlenews.aspx?storyid=2006-12-07T110246Z_01_NOA739546_RTRUKOC_0_ITU-WIMAX.xml&type=reutersEdge&WTmodLoc=Editors+Choice-C3-More-5)

[07T110246Z_01_NOA739546_RTRUKOC_0_ITU-](http://today.reuters.co.uk/news/articlenews.aspx?storyid=2006-12-07T110246Z_01_NOA739546_RTRUKOC_0_ITU-WIMAX.xml&type=reutersEdge&WTmodLoc=Editors+Choice-C3-More-5)

[WIMAX.xml&type=reutersEdge&WTmodLoc=Editors+Choice-C3-More-5](http://today.reuters.co.uk/news/articlenews.aspx?storyid=2006-12-07T110246Z_01_NOA739546_RTRUKOC_0_ITU-WIMAX.xml&type=reutersEdge&WTmodLoc=Editors+Choice-C3-More-5)

OKI and Huawei Collaborate in Mobile WiMAX, December 5, Coverge Network Digest

Oki Electric Industry Co. will sell Huawei Technologies' mobile WiMAX Series products to telecom carriers in Japan starting in the fiscal year ending March 2008. OKI will also provide its products globally with the support of Huawei. The companies announced the partnership at the ITU Telecom World 2006 conference in Hong Kong. OKI will also develop its own WiMAX-WiFi converter, WiMAX communication module for embedded systems, and indoor base station solutions such as pico cells. For base station solutions in particular, OKI plans to develop solutions with the support from Huawei.

<http://www.convergedigest.com/Wireless/broadbandwirelessarticle.asp?ID=20086>

<http://www.digitalmediaasia.com/default.asp?ArticleID=20326>

<http://www.80216news.com/pubs/2006/12/05/page1299-371388.asp>

<http://www.bbwxchange.com/pubs/2006/12/05/page1423-371388.asp>

LG enters mobile WiMAX market, December 5, PC Advisor

South Korea's LG Electronics plans to introduce a range of products next year that support mobile WiMAX technology, a company executive said at the International Telecommunication Union (ITU) Telecom World 2006 exhibition in Hong Kong. The first products from LG to support mobile WiMAX will be a version of the company's XNote C1 Tablet PC and a PDA based on Microsoft's Windows Mobile 5.0 software, said Nam Keehyun, manager at LG Electronics' Digital Media Strategic Planning Department. Mobile WiMAX offers downlink speeds up to 10.2Mbps, which is expected to increase to 40Mbps or so next year. The technology is currently commercially available in South Korea and Japan. It's also being tested by operators in other countries and plans are underway to roll out the technology in the US. and China.

<http://www.pcadvisor.co.uk/news/index.cfm?newsid=7779>

Intel shows off mobile WiMAX chipset, December 6, The Inquirer

Intel says it has completed the design of a mobile WiMAX baseband chip. The firm is to bundle the chip with its multi-band WiMAX/Wi-Fi radio chip to create a chipset it calls the Intel WiMAX Connection 2300. The chipset design was demonstrated during veep Sean Maloney's keynote at the 3G World Congress and Mobility Marketplace in Hong Kong. Maloney showed an Intel Centrino Duo laptop with mobile WiMAX (IEEE 802.16e-2005), Wi-Fi (IEEE 802.11n) and high-speed downlink packet access (HSDPA) 3G capabilities accessing the Internet at broadband speeds over a mobile WiMAX network. Intel says its

part of its cunning plan to get everyone well connected.

<http://www.theinquirer.net/default.aspx?article=36203>

http://www.betanews.com/article/Intel_Answers_Back_Centrino_Duo_to_Incorporate_WiFi_WiMAX/1165444072

<http://www.dailytech.com/article.aspx?newsid=5270>

<http://www.laptoplogic.com/news/detail.php?id=1780>

Motorola sees WiMAX Midas touch, December 7, The Australian

The technology has been chosen by US telco giant Sprint Nextel for a \$US3.5billion (\$4.4billion)-plus deployment that will cover 100 million people across major US cities. In Australia, listed junior telco Unwired is in the midst of another fundraising effort before shifting its network in Sydney and Melbourne from "pre-WiMAX" to WiMAX technology next year. "I know, because I talk to my technologists and from the investment by venture capital, that this is big," Mr Zander told The Australian in his only interview with the Australian press at the ITU Telecom 2006 conference in Hong Kong. "When? I don't know. That doesn't necessarily concern us, because it is going to happen."

<http://www.theaustralian.news.com.au/story/0,20867,20883860-643,00.html>

An Introduction to WiMAX with the Samsung P9000, December 7, MobileBurn.com

Mobile WiMAX may be the way of the future for delivery of broadband services to the palm of your hand, but while traveling around ITU Telecom World Sam Chan had the chance to sample this new technology today in the form of the Samsung P9000. He brings us the live photos that accompany this article. While the Samsung P9000 isn't a mobile phone, it does demonstrate the sort of services that could be possible when technology like WiMAX hits the mainstream in handsets. The P9000 is a mini PC with an interesting triple-fold design; it runs Windows XP Home Edition, has a 5" 65k color 800x480 pixel resolution display, and a 30GB hard drive. A 1.3 megapixel camera is also featured, as is Bluetooth and a mini-USB port. The Samsung P9000 also includes CDMA2000 1xEV-DO wireless connectivity over the 1900MHz frequency band to complement the high-speed data WiMAX provides with voice communication capabilities for users.

<http://www.mobileburn.com/news.jsp?id=2934&source=HOME>

WiMAX considered by 75% of operators **Back to News**, December 7, One News

Wireless broadband access technology WiMAX would be considered for use by three-quarters of telecoms operators across the globe, it has emerged. According to a survey by Pyramid Research, 75 out of 100 operators said they were thinking about building a WiMAX network, reports Reuters. WiMAX - which stands for Worldwide Interoperability for Microwave Access - enables faster internet access and download speeds onto laptops and mobile devices than existing technology. Seen by many as a competitor to 3G mobile technology, WiMAX could potentially be cheaper to introduce into the telecoms market, yet some experts are warning that it may not offer a difference in cost.

<http://www.tuvps.co.uk/news/articles/wimax-considered-by-75-of-operators-18004252.asp>

Texas Instruments Newest Wireless Infrastructure Processor Propels Emerging Market Applications Within GSM, TD-SCDMA and WiMAX, December 5, 802.16 News

Texas Instruments Incorporated announced its newest 3GHz-performing wireless infrastructure baseband product that boosts applications for GSM-based base stations while addressing new markets and requirements for WiMAX and TD-SCDMA. With three cores running at 1GHz each, the TMS320TC16487 processor enables base station manufacturers to extend their existing designs while entering into new markets, requiring small form factor applications with an exceptional scaleable, flexible solution. Please visit BWE's advertising sponsors that make this free editorial possible: "Wireless infrastructure requirements are constantly changing and evolving, with regional and form factor opportunities growing quickly," said Flint Pulskamp, wireless semiconductor analyst at IDC. "Offering a single, flexible solution to manufacturers and service providers to solve their needs for quick regional

deployments for GSM, TD-SCDMA and WiMAX further strengthens TI's strong position in this market space."

<http://www.80216news.com/pubs/2006/12/05/page1299-370811.asp>

<http://www.bbwxchange.com/pubs/2006/12/05/page1423-370811.asp>

Alcatel-Lucent Acquires Nortel's Radio Access Business for Access to Leading EVDO, UMTS/HSPA, GSM/EDGE and WiMAX Product Portfolios, December 5, 802.16 News

Alcatel-Lucent announced that it has signed an agreement with Nortel to acquire its UMTS radio access business and related assets for USD 320 million (Euro 250 million). This agreement follows the Memorandum of Understanding Alcatel and Nortel signed on September 1, 2006. Please visit BWE's advertising sponsors that make this free editorial possible: At the closing of the transaction, Alcatel-Lucent will acquire Nortel's UMTS radio access technology and product portfolio, associated patents and tangible assets as well as customer contracts. It will serve an additional sixteen UMTS customers around the world for a combined global footprint that amounts to one in four UMTS operators.

Approximately 1,700 people will join Alcatel-Lucent, of which about 1,100 are R&D engineers, based mainly in France, Canada and China. With this acquisition, the company will have leading positions in the whole range of wireless technologies and the know-how to drive the evolution to 4G.

<http://www.80216news.com/pubs/2006/12/05/page1299-370812.asp>

<http://www.bbwxchange.com/pubs/2006/12/05/page1423-370812.asp>

[WiMAX Forum Member Company News](#)

Beceem debuts Wave 2 WiMAX silicon at ITU, December 4, EE Times

Beceem Communications Inc. is sampling the first silicon for Wave 2 of the WiMAX broadband wireless standard, based on the IEEE 802.16-2005 mobile wireless standard. The BCS200 chip set uses the same baseband and RF partitioning as the original fixed WiMAX chip set from Beceem, but offers 25-Mbit/second throughput along with a 25 percent reduction in power consumption and 60 percent reduction in footprint. Lars Johnsson, vice president of business development at Beceem, said that many prototypes were developed by competitors based on the original 802.16e spec, "but we are not anticipating anyone else to be in full sampling of Wave 2 yet."

<http://www.eetimes.com/news/latest/showArticle.jhtml?articleID=196601271>

<http://www.80216news.com/pubs/2006/12/05/page1299-370335.asp>

<http://www.bbwxchange.com/pubs/2006/12/05/page1423-370335.asp>

Agni Systems Deploys WiMAX in Bangladesh for Wireless Internet Access, December 6, Broadband Wireless Exchange Magazine

Motorola, Inc. announced that Agni Systems Ltd, an Internet service provider (ISP) in Bangladesh, has started a phased WiMAX deployment to provide wireless broadband access in Dhaka, the capital of Bangladesh, and then gradually to other metropolitan cities. The 11-year old ISP's deployment builds upon Motorola's momentum in delivering commercial WiMAX networks around the world. Commercial services are expected to start in January 2007 and the entire deployment is expected to be completed by mid-2008. Phase one of the deployment will be a fixed outdoor solution using Motorola's Access Point (AP) 100 series system. Phase two, expected to start in Q3 2007, will extend Agni's system to an 802.16-2005 mobile WiMAX system using Motorola's WiMAX Access Point (WAP) 400 series system with MIMO techniques. Agni's managing director, Mohammed Abdus Salam, said that Motorola's AP 100 series system provides a quick, cost-effective way for Agni to roll out wireless broadband services to areas with high subscriber density in order to quickly realize its ROI objectives.

<http://www.bbwxchange.com/pubs/2006/12/06/page1423-372957.asp>

Alvarion's WiFi Stopgap, December 7, Unstrung

Broadband wireless vendor Alvarion Ltd. is integrating WiFi access with WiMax backhaul in a bid to allow users to connect with early deployments of the technology before widespread WiMax clients become available. The Tel Aviv, Israel-based company has combined an outdoor WiFi access point with its BreezeMAX or BreezeACCESS VL units for backhaul and network management software. The BreezeMAX basestations can operate in the 2.3-, 2.5- or 3GHz range. The BreezeACCESS VL box is a 5GHz unit. The integration work reflects the market reality that -- although there is now plenty of WiMax and pre-WiMax infrastructure now available -- there is a distinct scarcity of mobile WiMax clients, PC cards, laptops, PDAs, and smartphones on the market.

http://www.unstrung.com/document.asp?doc_id=112324

Nortel trials WiMax in Delhi, December 4, DQ Channels

It has been less than a month, since Intel chairman Craig Barrett visited Baramati in Maharashtra and launched a WiMax network for a digital hospital. Now, there is news that Nortel is ready to launch its trial fixed WiMax trial run in New Delhi and Gurgaon in the first week of December. The company officials are tight-lipped about the project details and are not sharing the names of partner they are launching the test-run with. Mallikarjun Rao, Director (Carrier Networks), Nortel India agreed that the company is going to start the test run in December. "On fixed WiMax we are ready for commercial roll-out and we are going ahead with the first trial for a month in major pockets of capital just to demonstrate to the operators the ability of the technology," he said.

<http://www.dqchannels.com/content/reselleralert/106120405.asp>

http://telephonyonline.com/wimax/news/nortel_wimax_chunghwa_120506/

ABI Research Says Power Consumption Will Force 3G Carriers to Adopt WiMAX / Wi-Fi Technologies, December 6, Broadband Wireless Exchange Magazine

Mobile operators will soon have a bitter pill to swallow when the conflicting needs of power consumption reduction and mobile broadband network deployments collide. Power consumption is one of the top three network operating expenses for carriers and should be at the core of their technology choices for mobile broadband. Carriers are putting significant investment into rolling out 3G networks, and will continue to do so as these networks evolve toward 4G over the next several years. However, a new study by ABI Research indicates that cellular technologies used in isolation might not be the best route for maximizing margins. Instead, WiMAX or Metropolitan Wi-Fi could offer a way out of the dilemma. Principal analyst Stuart Carlaw explains, "As soon as data consumption reaches between two and three times today's levels, a tipping point is reached, at which cell shrinkage and capacity degradation for WCDMA and CDMA2000 networks mean that carriers will need to install extra network elements that

<http://www.bbwexchange.com/pubs/2006/12/06/page1423-374472.asp>

Qualcomm's WiFi Joins with Airgo to Battle Intel's WiMAX, December 5, BetaNews

It's still a month before CES 2007, but a fresh set of battle lines is already being drawn in the critical high-speed wireless networking market. With Qualcomm's announcement on Sunday that it's acquiring Airgo Networks, perhaps the earliest producer of MIMO multiple-antenna 802.11g equipment in the business, it's positioning itself squarely against Intel, the lead architect and champion of WiMAX technology, in a showdown that could determine which will hold title to the mobile connectivity platform that succeeds today's Centrino. What the Airgo acquisition gives Qualcomm now that it didn't have before was an active production line for the fastest throughput equipment that purports to follow the latest 802.11n 2.0 draft proposal put forth before the IEEE standards body.

http://www.betanews.com/article/Qualcomms_WiFi_Joins_with_Airgo_to_Battle_Intels_WiMAX/1165340788

Qualcomm: 'We'd consider Nokia venture and WiMax buy, December 5, Silicon.com

Today at ITU Telecom World in Hong Kong, Jacobs said it may be one way to resolve the patent discussion deadlock. He said: "The negotiating team, from our point of view, are involved in a zero-sum

game. You can imagine we're not going to get very far until there's some external pressure," such as approaching deadlines or judicial interference. If it turns out to be a popular technology and if operators want us to support it, we will do. Jacobs added he'd like to see "more of a win-win", potentially involving Nokia and Qualcomm undertaking new business. "It's a hard thing to do... you need a lot of trust and we have a long history of fighting. That might be too strong a word but it might not - certainly 'competing vigorously'." The Qualcomm boss added that other factors would come into play for a tie-up to work. "There's also the question of timing," he said. "Building new business has to be near-term enough to be interesting to both parties. It's not a high probability path but it's certainly one worth exploring. Peace is better than continued fighting."

<http://networks.silicon.com/broadband/0,39024661,39164529,00.htm>

Alvarion Unveils Converged WiMAX Wi-Fi Solution, December 6, Wireless Week

Alvarion is expanding its portfolio with the introduction of two new converged solutions that combine Wi-Fi functionality with WiMAX and pre-WiMAX products. Specifically, the company unveiled BreezeMAX Wi2 and BreezeACCESS Wi2. The goal of the new solutions, according to Alvarion, is to advance personal broadband services by providing a cost-effective, converged network that combines Wi-Fi portability for IEEE 802.11b/g devices with WiMAX quality of service (QoS). The Wi2 solutions each include an outdoor Wi-Fi access point (AP) with integrated power module capable of connecting to various commercial power sources, either a BreezeMAX or BreezeACCESS VL unit for backhaul and network management software. Alvarion recently made a major commitment to WiMAX, by selling its Cellular Mobile unit to LG Wireless. The deal was valued at \$15 million, including notes and the assumption of certain liabilities.

<http://www.wirelessweek.com/article/CA6397714.html>

Nortel Expands WiMAX, Ethernet Reach, December 6, Xchange Online

Nortel Networks Ltd. made a series of announcements related to its WiMAX network and Ethernet products this week at ITU in Hong Kong. Nortel and Chunghwa Telecom will build the first WiMAX network in Taiwan driven by a local government under the Mobile-Taiwan project. The network will be in the northeastern county of Yilan. Nortel also is teaming with Toshiba Corp. to provide a wireless trial for the Japanese government using WiMAX platforms. The trial is for mobile high-speed broadband services in the northern Tohoku region. The project is part of Japan's goal of having broadband connectivity for all its citizens by 2010. Nortel is providing WiMAX base stations, based on the IEEE 802.16e standard, in both Taiwan and Japan.

<http://www.xchangemag.com/articles/501/6ch614263356388.html>

<http://www.bbwexchange.com/pubs/2006/12/06/page1423-372954.asp>

Maxis selects Alcatel for WiMAX field trial, December 6, The Edge Daily

Maxis Communications Bhd has selected Alcatel-Lucent to conduct Malaysia's first field trial of the Universal 802.16e –2005 WiMAX solution. Lucent said on Dec 6 they had signed an agreement to conduct the field trial, an important step towards offering commercial services and meeting the rising demand for wireless broadband access, especially in Malaysia's residential areas. To support the start of the field trial that will take place later this year, Alcatel-Lucent said it would ship its 9100 Evolium WiMAX equipment in the next few weeks. To prepare for the field trial, Maxis had completed Malaysia's first lab test of 802.16e WiMAX using Maxis' WiMAX 2.5 GHz spectrum at the Alcatel-Lucent Malaysia regional support centre in November 2006. Under the agreement, Alcatel-Lucent would deploy its WiMAX end-to-end radio solution (2.5 GHz), including base stations, wireless access controller, operation and maintenance centre.

http://www.theedgedaily.com/cms/content.jsp?id=com.tms.cms.article.Article_55dc235a-cb73c03a-36d04700-6d6abe1d

Veraz and Aperto Partner to Deliver Voice and IMS Multimedia Services over WiMAX, December 5, 802.16 News

Veraz Networks, Inc. and Aperto Networks announced that the two companies have partnered to deliver voice and IMS multimedia services over WiMAX. Together, Veraz and Aperto have built a joint demonstration lab, and are now demonstrating advanced IMS over WiMAX network solutions.

Please visit BWE's advertising sponsors that make this free editorial possible: The joint IMS over WiMAX demonstration lab includes a live link between Aperto's Milpitas headquarters and Veraz's San Jose headquarters. The lab showcases how the two platforms interoperate under a variety of service scenarios to demonstrate a reliable, high capacity, high quality WiMAX network for the delivery of advanced multimedia services.

<http://www.80216news.com/pubs/2006/12/05/page1299-370613.asp>

<http://www.bbwxchange.com/pubs/2006/12/05/page1423-370613.asp>

New 3G Flexi EDGE Base Station from Nokia Tries to Mimick Cost Benefits of WiMAX, December 1, 802.16 News

Nokia introduced the Nokia Flexi EDGE Base Station, a new revolutionary product for building out GSM/EDGE networks more cost effectively and quickly than ever before. In developing the Flexi EDGE Base Station, the smallest on the market, Nokia has taken full advantage of its latest innovations in electronics and system design to provide operators with a compact and powerful platform to deploy high quality networks with minimized operating and capital expenditures. Based on a modular compact design, the Nokia Flexi EDGE Base Station makes a significant impact on GSM/EDGE network coverage and capacity, as well as making base station siting easier and faster. Operators gain cost savings in site deployment, operations and in reduced number of sites - all resulting in lower network total cost of ownership.

<http://www.80216news.com/pubs/2006/12/01/page1299-309954.asp>

<http://www.bbwxchange.com/pubs/2006/12/01/page1423-309954.asp>

[General WiMAX News](#)

Fitel tests WiMAX, December 1, Telegeography

Taiwanese PHS mobile operator First International Telecom (Fitel) says it is setting up a trial WiMAX network in Taipei. The initial phase will see up to 30 base stations installed across the city, although it will be commencing its trial with just five base stations in the east of Taipei. Funding for the project is coming from the government's Mobile Taiwan (M-Taiwan) programme, reports DigiTimes. Fitel estimates that it would take around 200 base stations to provide full WiMAX coverage of central Taipei, and up to 700 to cover the whole Taipei metropolitan area. Nortel will be supplying the first five base stations, with Motorola contracted for another five. The remainder will come from one of these two firms or from Alcatel, Fitel says.

http://www.telegeography.com/cu/article.php?article_id=15679&email=html

Taiwan market: Difference in WiMAX licensing plans causes worry, December 1, DigiTimes

The difference between two plans for issue of WiMAX licenses, which were proposed by Taiwan's Ministry of Transportation and Communications (MOTC) and National Communications Commission (NCC), has led to some worry among potential applicants, according to industry sources. The Executive Yuan asked MOTC and NCC to come up with a joint proposal to resolve the issue. The MOTC will hold the first public hearing about its licensing plan in December. The NCC already held two public hearings about its plan. Potential applicants, which are not existing operators of mobile communications, express a worry that MOTC's plan is more favorable for existing operators of 3G mobile communication services, and such operators, if they get a license, can be not interested in providing WiMAX services due to a potential impact to their 3G or HSDPA (high-speed downlink packet access), so called 3.5G, businesses. For Taiwan, it is actually important to remain on schedule with WiMAX licensing. Next year,

the WiMAX Forum will hold its member conference along with a large international WiMAX exhibition in Taiwan in October.

<http://www.digitimes.com/telecom/a20061201PD202.html>

GR's wireless Internet pick could cover entire city, December 1, The Grand Rapids Press

The dream of high-speed, wireless Internet access from anywhere in the city may be real sometime next year. City officials today announced a tentative deal with Clearwire LLC, a Seattle-area company that promises to blanket the city with the latest in technology. Called WiMAX, the new technology boasts better penetration in buildings and neighborhoods than Wi-Fi, the wireless system used in most businesses and cities today, said city officials, who chose Clearwire from nine proposals submitted earlier this year.

"If this works, there won't be a blank spot in the city. We'll be entirely under a wireless cloud," said Mayor George Heartwell, who called for the development of a citywide wireless network two years ago.

<http://www.mlive.com/news/grpress/index.ssf?/base/news-33/1164980779194210.xml&coll=6>

<http://www.govtech.net/digitalcommunities/story.php?id=102746>

Vietnam's high-speed IT rise, December 2, The Financial Express

With new foreign investments pouring in and more than 600 software-oriented firms already in place, Vietnam's information-technology sector is by all measures going great guns. And recent big-ticket investments from the multinational likes of Intel and Canon could soon establish Vietnam as a low-cost IT leader in the region, challenging the positions of such countries as Thailand and the Philippines. US technology giant Intel this month announced plans to boost its investment in Vietnam to US\$1 billion, a mere nine months after the company unveiled plans to spend \$300 million on a factory to assemble and test microchips in Ho Chi Minh City. Canon is meanwhile spending \$1 billion on a new printer factory in Hanoi, while Alcatel, Fujitsu and Siemens are all increasingly sticking "Made in Vietnam" on their products.

<http://www.financialexpress->

[bd.com/index3.asp?cnd=12/2/2006§ion_id=17&newsid=45518&spcl=yes](http://www.financialexpress.com/index3.asp?cnd=12/2/2006§ion_id=17&newsid=45518&spcl=yes)

Techies like WiMAX's promise, December 2, The Grand Rapids Press

Local techies say they're geeked about Clearwire LLC's decision to set up a high-speed wireless network that will blanket the city. Clearwire's "WiMAX" technology may not be as familiar as the more common "Wi-Fi" technology, but it's the next big thing, said Josh Leng, an account executive with Robert Half Technology, an information technology consulting firm. "Wi-Fi will be the technology of the past and WiMAX is what the next technology will be," said Leng, who said he's familiar with Clearwire's operations in other cities. "This is a great move by the city." City officials announced Friday the Kirkland, Wash.-based firm will build a wireless network to blanket the city with high-speed access. City officials will provide Clearwire with tower locations in exchange for access for police and fire departments.

<http://www.mlive.com/news/grpress/index.ssf?/base/news-33/1165045447217100.xml&coll=6>

BSNL likely to tie up with Intel to offer WiMAX services, December 1, My Iris

Bharat Sanchar Nigam is tying up with Intel, the world's largest chipmaker, to deploy the country's first wireless broadband and telecom service on WiMAX (worldwide interoperability for microwave access), reports Financial Express. BSNL is likely to ink a generic technology agreement with Intel very shortly, sources said. WiMAX is considered the biggest threat to pure-play mobile telephony. Its invention has forced mobile service providers worldwide to start trials on tying up their GSM/3G networks with WiMAX technology. WiMAX is almost 30 times faster than 3G and can support a speed of up to 70 mbps as against 3G, which supports only 380 kbps to 2 mbps. US is aggressively deploying WiMAX technology with service providers like Sprint, originally a CDMA player, migrating to WiMAX. Motorola already offers WiMAX handsets and global vendors like Alcatel and Lucent are developing equipments for WiMAX services. Globally, WiMAX is undergoing over 200 trials while it has been deployed at 40 locations

commercially.

<http://www.myiris.com/newsCentre/newsPopup.php?fileR=20061129111621124&dir=2006/11/29&secID=livenews>

Cellular Systems Will Upstage WiMAX in Developing Countries, December 4, Fiber Optics Online
Cellular voice services will capture the limited disposable income in developing markets, undermining the business case for WiMAX, according to a new report, *The Business Case for WiMAX*, published by Analysys, the global advisers on telecoms, IT and media. Many people have identified developing markets as the prime opportunity for WiMAX, given the absence of competing fixed infrastructure. However, according to report co-author, Mark Heath, "The prospects for WiMAX in developing markets will be severely limited by a lack of PCs, low disposable incomes and the growing strength of cellular services. Cellular voice services will be much more appealing to most people, particularly as handsets are available very cheaply."

<http://www.fiberopticonline.com/content/news/article.asp?docid=%7BC120CBFE-6F51-42E0-9CAD-4080CE466D37%7D&VNETCOOKIE=NO>

<http://arstechnica.com/news.ars/post/20061207-8377.html>

Yankee Group and Analysys International Partner on China WiMAX Research Report, December 4, Broadband Wireless Exchange Magazine

Yankee Group and Analysys International today announced an exclusive partnership Memorandum of Understanding (MOU) to jointly produce technology research that puts the Chinese market into an international context. Together, Yankee Group's and Analysys International's joint research initiative will investigate and address the market dynamics of the largest telecom market in the world, which is made up of more than 449 million mobile users, 370 million fixed-phone users and 50 million broadband users. Please visit BWE's advertising sponsors that make this free editorial possible: Under the terms of the MOU, signed today, Yankee Group and Analysys International will jointly produce and cross-sell cooperative research reports, collaborate on consulting projects and host global industry events. The resulting research reports on the Chinese technology market will be co-authored and co-branded by both companies, the first of which will be on the WiMAX infrastructure market in China. This partnership enables Yankee Group to leverage its global brand to deliver Analysys International's research on the China technology, media and telecom (TMT) markets to an international audience.

<http://www.bbwxchange.com/pubs/2006/12/05/page1423-371390.asp>

<http://www.80216news.com/pubs/2006/12/05/page1299-371390.asp>

Research Report Presents the Best Business Case for WiMAX, December 5, Broadband Wireless Exchange Magazine

The growing availability of WiMAX equipment and the early announcement of a number of deployment plans have led to a surge of interest in WiMAX and its potential to complement or disrupt fixed and wireless broadband services. The WiMAX Forum and equipment vendors are strongly promoting the application of WiMAX in a variety of market situations in both developed and developing countries. However, in developed markets, WiMAX will face growing competition from DSL, while in developing markets its progress will be hindered by limited disposable income. In this report, we get to grips with the real opportunities of WiMAX for existing and new network operators. The report models the business case for WiMAX in a number of potential deployment scenarios, including a developing market urban area, a developed market urban area and a developed market rural town. It identifies the critical factors that will make or break the business case for WiMAX in these environments, illustrated by a variety of case studies and market data. It determines the realistic financial returns that may be possible in each case.

<http://www.bbwxchange.com/pubs/2006/12/05/page1423-370048.asp>

<http://www.80216news.com/pubs/2006/12/05/page1299-370048.asp>

Research Report Offers Insight to WiMAX and 3G Deployments in South East Europe, December 4, Broadband Wireless Exchange Magazine

This report covers Albania, Bosnia-Herzegovina, Bulgaria, Croatia, Cyprus, Greece, Macedonia, Romania, Serbia and Montenegro. Trends and developments in telecommunications, mobile, Internet, broadband, digital TV and converging media including VoIP, VoD and IPTV developments.

Telecommunications in the ten countries that comprise the Balkans is following the path taken by neighbouring Central Eastern Europe, with numerous markets liberalised. Incumbents still dominate but are under attack, with alternative operators steadily gaining fixed-line subscribers. Recognising that they can only delay the eventual onset of competition, broadband and convergence services have been chosen by the incumbents as new revenue growth areas. Hence ADSL take up is growing very rapidly, a trend that we expect will continue in 2007, with incumbents expected to eventually launch convergence offerings such as IPTV, once they have established a sizeable broadband base.

<http://www.bbwxchange.com/pubs/2006/12/04/page1423-368693.asp>

<http://www.80216news.com/pubs/2006/12/04/page1299-368693.asp>

Howse Gives Presentation on "WiMAX, December 5, Broadband Wireless Exchange Magazine

PacketHop, Inc. announced that President and Chief Executive Officer Michael Howse will speak at the Churchill Club at the Santa Clara Convention Center. Howse is speaking on a panel, titled "WiMAX -- Enabling Next-Generation Broadband Services," which will be held on Tuesday, Dec. 5, from 6:00 to 7:30 p.m. PDT. The panel will be moderated by Cliff Edwards, senior technology correspondent for BusinessWeek magazine, and provide an overview of the WiMAX market, its relationship to other wireless technologies, what's driving demand for next-generation broadband networks, and new business opportunities and consumer benefits.

<http://www.bbwxchange.com/pubs/2006/12/05/page1423-371380.asp>

<http://www.80216news.com/pubs/2006/12/05/page1299-371380.asp>

ITU - LG readies mobile WiMax devices for launch, December 5, Webwereld

South Korea's LG Electronics Inc. plans to next year introduce a range of products that support mobile WiMax technology, a company executive said at the International Telecommunication Union (ITU) Telecom World 2006 conference and exhibition in Hong Kong. The first products from LG to support mobile WiMax will be a version of the company's XNote C1 Tablet PC and a PDA (personal digital assistant) based on Microsoft Corp.'s Windows Mobile 5.0 software, said Nam Keehyun, manager at LG Electronics' Digital Media Strategic Planning Department. Mobile WiMax offers downlink speeds up to 10.2M bps (bits per second), which is expected to increase to 40M bps or so next year. The technology is currently commercially available in South Korea and Japan. The technology is also being tested by operators in other countries and plans are underway to roll out the technology in the U.S. and China.

<http://www.webwereld.nl/articles/44026/itu--lg-readies-mobile-wimax-devices-for-launch.html>

WiMax threatens DOD radars, officials say, December 7, FCW.com

The wireless industry views WiMax as the next big thing, a technology with great promise to deliver broadband to homes and offices less expensively than wired connections. But proliferation of the new commercial long-range wireless systems could cause problems for Defense Department radar systems, which operate in the same frequency bands, top DOD officials said at the ACEA DOD Spectrum Summit Dec. 6. White House and National Telecommunications and Information Administration (NTIA) officials said commercial wireless systems present opportunities and challenges for DOD, adding that the United States needs to find ways to share frequencies.

<http://www.fcw.com/article97036-12-07-06-Web>

Broadband Wireless Rapid Response Communications Kit Adopted by Texas National Guard for Instant WiMAX - Wi-Fi Communications Capabilities, December 5, 802.16 News

Fortress Technologies announced that they developed a next generation "Rapid Response Communications Kit" for the Texas National Guard. These "Rapid Response Communications Kits" are mobile systems that enable secure wireless communications during emergency response situations, allowing the Texas National Guard to quickly establish voice, video and data communications in environments that have no available infrastructure. The Texas National Guard purchased the first of these systems, which integrates secure Wi-Fi for local access with secure WiMAX for reach-back. Please visit BWE's advertising sponsors that make this free editorial possible: "One of the largest states in the U.S., Texas maintains a land and water area of 268,581 square miles, which presents a number of challenges in communicating during emergency situations," said Major Clay Wheeler, G6-Signal Officer, Texas National Guard. "We require the ability to quickly, efficiently and securely coordinate with various entities across the state during any major incident. These mobile 'Rapid Response Communications Kits' provide us the ability to share critical information, save time and ultimately save lives."

<http://www.80216news.com/pubs/2006/12/05/page1299-371378.asp>

<http://www.bbwxchange.com/pubs/2006/12/05/page1423-371378.asp>

Wi-Fi, WiMAX, Wireless Mesh Network Equipment Sales All Increase in 3Q06, December 5, 802.16 News

The worldwide move toward greater mobility continues, says Infonetics Research in three recent reports tracking the radio access network, WiMAX/outdoor mesh network, and wireless LAN equipment markets. According to the reports, worldwide RAN equipment sales rose 9% to \$9.58 billion between 2Q06 and 3Q06; wireless LAN equipment sales increased 19% to \$780.03 million; WiMAX equipment sales shot up 23% to \$173.53 million; and outdoor mesh equipment sales jumped 38% to \$121.40 million. "The range of licensed and unlicensed wireless broadband and mobile technologies now available leads to some interesting opportunities for operators, but also some potentially disruptive challenges to existing business models," said Infonetics Research analyst Richard Webb.

<http://www.80216news.com/pubs/2006/12/05/page1299-371393.asp>

New Remote Monitoring Service Provides Visibility into WiMAX, WiFi, 3G Networks, December 5, 802.16 News

CyberTel Capital Corporation announced the release date of AireWire's remote management service. Called AireWire RMS, the service will provide monitoring, performance and capacity management information to next generation wireless service providers. The system will provide unique capabilities for wireless customers allowing them to manage performance and capacity metrics of their WiMAX radio "You can't manage what you can't see," states Walt Henley, President of AireWire, Inc. "Our RMS will provide visibility into WiMAX, WiFi, cellular, fiber and legacy networks enabling operators to get ahead of service assurance issues using the latest monitoring technologies."

<http://www.80216news.com/pubs/2006/12/05/page1299-371395.asp>

<http://www.bbwxchange.com/pubs/2006/12/05/page1423-371395.asp>

Elektrobit Rolls Out Suite of WiMAX Products Using Software Defined Radios, December 4, 802.16 News

Elektrobit announced the availability of its suite of WiMAX modules. These ODM products will shorten the time-to-market of new WiMAX base stations and products. The products are targeted for telecom vendors and operators. Elektrobit's new cost-efficient WiMAX 802.16e BTS modules shorten the development time of WiMAX network solutions. The BTS modules allow various site applications by one configuration, easy installation and commissioning and flexible higher capacity configurations. To ensure low operational cost for radio networks, the BTS modules can be configured, software upgraded and diagnosed remotely.

[http://www.80216news.com/pubs/2006/12/04/page1299-](http://www.80216news.com/pubs/2006/12/04/page1299-370807.asp)

[370807.asphttp://www.bbwxchange.com/pubs/2006/12/04/page1423-370807.asp](http://www.bbwxchange.com/pubs/2006/12/04/page1423-370807.asp)

TechnoConcepts Plans Software Defined Radio Chipsets for 2007 Offering Dual Wi-Fi, WiMAX and 3G Cellular Services, December 1, Broadband Wireless Exchange Magazine

TechnoConcepts, Inc. announced the finalization of the product datasheet that will serve as the baseline for the Company's initial commercial production run of its True Software Radio wireless receiver and transmitter chips, targeted for delivery in the first quarter of calendar year 2007, and the completion of the chips' parametric characterization. The characterization process measured the function and performance parameters of the True Software Radio transmitter and receiver chips as they operated continuously across multiple frequency bands. An Integration Toolkit, consisting of software and an interface adapter with programmable logic, is being developed and will be available to licensees in the first quarter of 2007 for product integration, as well as for resale to interested parties. With the achievement of these milestones, the Company will now increase its efforts to commercialize its technology.

<http://www.bbwxchange.com/pubs/2006/12/01/page1423-309788.asp>