

WiMax Forum News

Weekly Clip Report February 22 – March 1

Articles of Note

IEEE to Speed Up WiMAX, February 22, Wirelessweek.com

Looking beyond current 802.16e Mobile WiMAX technology, the IEEE hopes to boost speeds of 802.16m to 1Gbps by 2009 and possibly merge it with 4G. Calling it gigabit WiMAX, the standards-setting organization is mapping an aggressive timeline to develop the new technology standard by the end of 2007 and have it finalized by the end of 2009. Similar to current 802.16e Mobile WiMAX, the 802.16m standard would use multiple-input, multiple-output (MIMO) antenna technology, while maintaining backward compatibility with the existing standards. The 1Gbps speeds reportedly can be reached by using larger antenna arrays.

<http://www.wirelessweek.com/article/CA6418733.html>

<http://www.dailytech.com/IEEE+80216m+to+Bring+1Gbps+Wireless+Transfer+Rates/article6172.htm>

<http://www.dslreports.com/shownews/81794>

<http://www.pcworld.com/article/id.129359-c.wireless/article.html>

<http://www.techworld.com/mobility/news/index.cfm?newsid=8115&pagtype=all>

<http://www.networkcomputing.com/channels/wireless/showArticle.jhtml;jsessionid=NYTGJF4C4VOA4QSNDRSKHSCJUNN2JVN?articleID=197008504&articleID=197008504>

<http://www.devicepedia.com/wireless/ieee-80216m-1gb-wireless-speeds-compatible-with-wimax-and-4g.html>

Government Support Critical to WiMAX Adoption in China, February 26, NSR.com

NSR today released its newest market survey and forecast report: "China WiMAX, Assessing Growth Potential in a Complex Market." The report provides an in-depth analysis of the emerging market for WiMAX in China and presents demand forecasts for all WiMAX solutions (fixed and mobile/nomadic) and customer types over the next 5 years. NSR predicts a slow but steadily growing market for WiMAX in China. From a relatively low revenue base of \$130.0 million in 2007, the market is forecasted to grow more robustly in the latter years of the forecast, exceeding \$7 billion by end-2012. The overall market translates to a growing subscriber base as well as a developing ecosystem where government support, form factor development and market receptiveness for new technologies favor the adoption of WiMAX.

http://www.marketwire.com/mw/release_html_b1?release_id=220010

<http://www.80216news.com/pubs/2007/03/01/page1299-480274.asp>

<http://www.bbwxchange.com/pubs/2007/02/28/page1423-477294.asp>

Alcatel-Lucent Makes Undisclosed Investment in WiMAX Chipset Vendor, February 22, 80216news.com

Alcatel-Lucent announced it has invested in SEQUANS Communications, a leading supplier and developer of fixed and mobile WiMAX semiconductor solutions. The investment is an extension of Sequans' recent round of funding announced in July 2006. Terms of the investment agreement were not disclosed.

"Our investment in Sequans shows our commitment to WiMAX and our interest in supporting the development of the leading WiMAX technologies," said Karim El Naggar, vice president of Alcatel-Lucent WiMAX Business Unit.

<http://www.80216news.com/pubs/2007/02/22/page1299-469385.asp>

<http://www.bbwxchange.com/pubs/2007/02/22/page1423-469385.asp>

KT Launches Wibro HSDPA Modem, March 1, Wimaxday.net

Korean WiBro operator KT announced this week the launch of iPlug Premium, a USB modem that supports both HSDPA and WiBro. According to a report in KT's WiBro News, this is the world's first dual-mode USB modem that is capable of accessing both mobile WiMAX and HSDPA. For KT subscribers, they will be able to access the KT WiBro network in large cities such as Seoul, and in other regions where the WiBro service is as yet unavailable, subscribers can access the KT 3G network. KT also announced that it plans to introduce similar devices in the future that work in mobile handsets. Numerous equipment vendors are

working to develop similar USB devices. At the 3GSM conference in Barcelona last month, Samsung unveiled a USB dongle that can work in dual-mode mobile WiMAX and HSDPA.

<http://www.wimaxday.net/site/2007/03/01/kt-launches-wibro-hsdpa-modem/>

LitePoint Introduces Dedicated WiMAX One-Box Tester for Volume Manufacturing, March 1, 80216news.com

LitePoint Corporation announces the market release of the IQmax-100 one-box manufacturing test solution. This instrument, optimized to address the needs of WiMAX volume manufacturing, is part of a larger IQmax family of WiMAX test solutions. Both the IQmax-100 and IQmax-500 R&D test solutions share a common hardware platform and the same performance specifications that offer users consistency of results from development through QA. With integrated Vector Signal Analyzer (VSA) and Vector Signal Generator resources, one-box IQmax Test Systems offer consistent test results for all critical fixed and mobile WiMAX physical layer parameters, including all bandwidth and data rate options for product development, volume manufacturing and quality assurance.

<http://www.80216news.com/pubs/2007/03/01/page1299-478604.asp>

<http://www.bbwxchange.com/pubs/2007/03/01/page1423-478604.asp>

<http://www.rfglobalnet.com/content/news/article.asp?DocID=%7b32CD895F-E8E8-4A47-B7DE-2C0A8A5CB209%7d&Bucket=Current+Headlines&VNETCOOKIE=NO>

<http://news.thomasnet.com/fullstory/510307/2697>

Yankee: 28 Million Mobile WiMAX Subs by 2011, February 23, Telephonyonline.com

The Yankee Group is forecasting a total of 28 million Mobile WiMAX subscribers by 2011, according to research the agency discussed this week as part of a tele-briefing on the state of the WiMAX industry. However, Berge Ayvazian, chief strategy officer at The Yankee Group, said various market drivers such as content application usage and the degree to which WiMAX access becomes embedded in a large volume of devices, could allow that subscriber figure to be reached as early as 2010. "You've got a lot of pre-802.16e equipment out there now and for the next year, but the market is really set to grow as the standard gear goes out there into the market," he said.

http://telephonyonline.com/wimax/news/yankee_mobile_wimax_022307/

Alcatel-Lucent Joins WiMAX Forum® Board of Directors, February 23, Webwire.com

The WiMAX Forum, an industry-led non-profit organization comprising more than 430 companies committed to promoting and certifying interoperable WiMAX products, today appointed Philippe Goossens of Alcatel-Lucent to its Board of Directors. As a strong contributor to the WiMAX Forum, Alcatel-Lucent's presence on its board of directors is indicative of the acknowledgement by wireless market leaders around the globe that WiMAX is a powerful option for delivering broadband Internet services anytime and anywhere. Being elected to WiMAX Forum Board of Directors recognizes Alcatel-Lucent's commitment and contribution to the fast-growing WiMAX market and a testimony to its technical leadership in WiMAX technologies.

<http://www.webwire.com/ViewPressRel.asp?ald=27797>

http://www.unstrung.com/document.asp?doc_id=118037&WT.svl=wire1_1

<http://www.tmcnet.com/wifirevolution/articles/5244-alcatel-lucent-joins-wimax-forum-board-directors.htm>

<http://www.80216news.com/pubs/2007/02/27/page1299-473757.asp>

<http://www.bbwxchange.com/pubs/2007/02/27/page1423-473757.asp>

A Little Truth, February 23, FierceWireless e-newsletter

This month I'm focusing on WiMAX and its potential impact on the wireless industry. Most 3GSM attendees make their living in the traditional wireless space and view WiMAX as a potential threat. While some welcome it as yet another wireless technology to be added to their stable of offerings, others dismiss it as a pipe dream. When asked by a member of the press for my opinion of WiMAX and its inclusion in the 3GSM show, my comment was that, "There is nothing wrong with WiMAX that a little truth won't cure." Hype and inflated expectations surrounding any new technology will come back to haunt those who engage in it. And

the WiMAX hype has been building as it comes closer to reality. One booth at the show was billed as "WiMAX is here."

www.fiercewireless.com

WiMAX eSeminar and Tool Kit CD Available from Agilent Technologies, February 23, Ferret.com
Agilent Technologies Inc. has released Wimax eSeminar and tool kit CD for fixed 802.16-2004 and mobile 802.16e-2005 WiMAX applications. Further complementing Agilent's broad offering of WiMAX solutions, these resources are designed to help today's engineers more efficiently and effectively test and verify WiMAX designs and radios. 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 analyser 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.

<http://www.ferret.com.au/articles/z1/view.asp?id=17576>

Samsung Showcases Mobile WiMAX with Sprint-Nextel 4G Partners, March 1, sda-asia.com
Samsung, a provider of telecommunications network systems and handsets, demonstrates its Mobile WiMAX technology and services for the first time in Europe at 3GSM World Congress 2007 in Barcelona, Spain. Following Samsung and Sprint-Nextel's partnership in August of 2006 to collaborate on the US carrier's major 4G wireless initiative, which will adopt the Mobile WiMAX (IEEE 802.16e TDD OFDMA) technology standard, Samsung will showcase the latest in mobile convergence devices ready for Mobile WiMAX. Sprint's partners in the 4G wireless broadband initiative, Samsung, Intel, Motorola, and Nokia, will share a booth under the theme of 'WiMAX is here!'

http://www.sda-asia.com/sda/features/psecom.id,994,nodeid,1,_language,Singapore.html

Beceem Communications Collaborates With Samsung Electronics For Mobile Wimax Technology, February 27, Telephonyworld.com

Beceem Communications, a leading provider of chipsets for Mobile WiMAX technology, today announced that Samsung Electronics Co., Ltd., a leading provider of mobile phones and telecom systems, selected Beceem as one of its major Mobile WiMAX chipset vendors. Beceem expects that the company's chipset would be in various Samsung WiMAX-enabled devices. "Samsung's selection of our chipset is a result of our close collaboration with Samsung's Mobile WiMAX development team. This collaboration has resulted in our Mobile WiMAX product leadership and has facilitated Samsung's product development, market trials and deployments," said Shahin Hedayat, CEO & Co-founder of Beceem.

<http://www.telephonyworld.com/cgi-bin/news/viewnews.cgi?category=all&id=1172624806>

http://telephonyonline.com/wimax/news/beceem_samsung_wimax_022707/

<http://www.primenewswire.com/newsroom/news.html?d=114517>

<http://www.80216news.com/pubs/2007/03/01/page1299-480274.asp>

<http://www.bbwxchange.com/pubs/2007/03/01/page1423-480274.asp>

[WiMAX Forum Member Company News](#)

Unwired Keeps Faith In Wimax, February 23, Theage.com.au

Wireless broadband provider Unwired has posted a \$14.7 million loss for the second half of last year but remains confident the emerging WiMAX technology will be its saviour. The company's customer base across its Sydney and fledgling Melbourne networks rose 19 per cent in the period to just under 64,000, while revenue was up 40 per cent to \$16.1 million compared to the same period in 2005. The revenue boost was achieved despite only a 32¢ increase in the average monthly spend by its retail customers. Unwired's cash reserves fell by a third to \$10.5 million compared to the first half, although chief executive David Spence said the increase in broadband subscribers should ensure the trend does not continue into the current half.

<http://www.theage.com.au/news/wireless--broadband/unwired-keeps-faith-in-wimax/2007/02/22/1171733935803.html>
<http://www.wimaxday.net/site/2007/02/22/unwired-releases-promising-results/>

Alvarion Increases MultiVendor WiMAX Interoperability Testing, February 23, 80216news.com
Alvarion Ltd. announced the expansion of its OPEN WiMAX ecosystem through successful initial interoperability testing with an increasing number of 3rd party mobile devices. The company's 4Motion solution has achieved successful initial interoperability with numerous devices, using embedded chipsets from top vendors such as Beceem Communications, GCT Semiconductor, Intel Corporation, Runcom Technologies and Sequans Communications, all in preparation of Wave 1 and 2 802.16e-2005 certification. Providing high quality radio performance and answering to the strict security measures incorporated into the WiMAX and 802.16e-2005 specifications, Alvarion has completed yet another significant technology milestone in its interoperability testing program.

<http://www.80216news.com/pubs/2007/02/23/page1299-470329.asp>
<http://www.bbwexchange.com/pubs/2007/02/23/page1423-470329.asp>

SkyCross Announces Design Wins for Samsung WiMAX PC Cards, March 1, TMC.net
SkyCross, a global wireless company providing antenna-centric RF solutions, today announced that it is supplying both the internal and the external WiMAX antennas for the Samsung SPH-H1100 and SPH-H100 PC cards. These cards operate on the WiBro network, which is a WiMAX-compliant standard for last mile broadband connectivity in South Korea. This announcement comes on the heels of the introduction of a WiMAX product line offered by SkyCross, which includes the first antennas designed and manufactured for this protocol.

<http://www.tmcnet.com/usubmit/-skycross-announces-design-wins-samsung-wimax-pc-cards-/2007/03/01/2378448.htm>

Telecom Namibia Deploys Wimax Network Using Alvarion's Breezemax, February 28, Wirelessdesignasia.com

Incumbent carrier Telecom Namibia has selected Alvarion Ltd's BreezeMAX to upgrade wireless local loop systems with WiMAX, to provide primary telecommunication voice services, broadband data and high speed Internet access, throughout the country. In addition, Telecom Namibia will offer primary voice and data services to residential and business subscribers. Rampoint Communications is Alvarion's local partner for the project. "As a customer-driven company, we have strategically chosen Alvarion and its BreezeMAX platform as infrastructure, in order to provide the highest quality of broadband data and voice services to our population," said Frans Ndoroma, Managing Director, Telecom Namibia.

<http://www.wirelessdesignasia.com/article.asp?id=4637>
<http://www.80216news.com/pubs/2007/03/01/page1299-478627.asp>
<http://www.bbwexchange.com/pubs/2007/03/01/page1423-478627.asp>
http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20070227005578&newsLang=en

Sprint Nextel Outlines Plans For EV-DO, WiMAX, And Cable Company Building A Hybrid Device For iDEN And CDMA, February 28, telecommagazine.com

Sprint Nextel will move ahead to upgrade its EV-DO Rev. A network including building a hybrid device for integrated Digital Enhanced Network (iDEN) and CDMA traffic and continue to focus on a fixed-mobile convergence-centric (FMC) joint venture with cable operators this year. Beyond that, the carrier will move ahead as quickly as possible on a mobile WiMAX play beginning in 2008. During a conference call outlining generally positive fourth quarter results, Sprint Nextel executives made it clear that broadband in all its iterations – including as part of the long distance business – is the carrier's going-forward focus.

http://www.telecommagazine.com/newsglobe/article.asp?HH_ID=AR_2958

IBM to Launch WiMAX in Texas, March 1, Wimaxday.net

Brownsville, a seaside city in Texas near the border of Mexico, made popular by a Bob Dylan song, will soon claim its own WiMAX network. IBM announced today that it will work with the city of Brownsville to construct a "citywide security-enhanced wireless network." The network is intended for use of official city services such as utilities, ambulance, and police, for remote monitoring and to access real-time data. The network also will provide community Internet access, "aimed at improving technology availability and increasing the technology skills of Brownsville citizens," according to a press release from IBM.

<http://www.wimaxday.net/site/2007/03/01/ibm-to-launch-wimax-in-texas/>

Sify Deploys Proxim Wireless Wimax-Capable Point-To-Multipoint Products For Last Mile Access And Mobility, February 22, Wirelesdesignanddevelopmentasia.com

Sify Ltd has chosen and deployed Proxim Wireless Corp.'s 5.8GHz Tsunami MP.11 WiMAX-capable product line as its core communications platform for its mobility features and last mile access in India. One of the largest Internet, network and eCommerce companies in India, Sify has already deployed over 700 Tsunami MP.11 base stations and 3,500 subscriber units to provide Internet access and voice and video broadband services to residential, enterprise and cybercafé subscribers in over 200 cities throughout India. Bhaskar Sanyaparaju, CTO, Sify, said: "WiMAX is the future of Wireless Internet Communications especially in fast developing countries like India.

<http://www.wirelessdesignasia.com/article.asp?id=4534>

<http://www.muniwireless.com/article/view/5713/>

Clearwire Buys Wireless Wimax Spectrum From AT&T, February 22, Computerworld.com

Clearwire dropped US\$300 million in cash to buy spectrum in the 2.5-GHz band from AT&T on Tuesday. Once the deal is approved by regulators, Clearwire will hold the majority of licenses in this spectrum, which is ideally suited to support WiMAX wireless broadband services. Clearwire offers fixed wireless broadband services, based on WiMAX, in 33 markets in the U.S. and in a handful of other countries. The service supports downstream speeds of 1.5Mbps. The service provider, started by wireless industry veteran Craig McCaw, touts 206,000 customers. AT&T sold off this spectrum as part of concessions it offered the FCC to complete its acquisition of BellSouth. The spectrum covers cities in the southeast, BellSouth's traditional serving areas. AT&T completed its \$86 billion acquisition of BellSouth in December.

http://www.computerworld.com/action/article.do?command=viewArticleBasic&taxonomyName=mobile_and_wireless&articleId=9011660&taxonomyId=15

Altech And Samsung Sign Wimax Deal, February 24, Wimaxxed.com

Altech and Samsung Electronics have agreed to co-operate for trial service of Mobile WiMAX broadband network in South Africa. Following the successful test license application to ICASA, Altech and Samsung will install the Mobile WiMAX network in Gauteng, South Africa. Altech is a leading South African multi-billion rand high-technology group involved in the design, development, convergence, manufacture, installation and distribution of telecommunications equipment, multimedia systems, IT solutions, electronic components, cellular telephony and industrial electronic products while Samsung is a leader and innovator of mobile technology.

http://www.wimaxxed.com/wimaxxed_news/20070224/altech_and_sams.html

General WiMAX News

FastWeb outlines WiMAX plans, February 22, Telegeography.com

Italian broadband provider FastWeb says it plans to spend up to EUR400 million on WiMAX wireless broadband technology over the next three to four years if it is successful in winning a licence in Italy's forthcoming spectrum auction. The firm says its investment plan is based on the expectation that telecoms regulator Agcom will call for all WiMAX licensees to offer coverage to 90% of the country's population. FastWeb has been conducting trials of WiMAX technology since 2005 and says it plans to use the

technology to reach areas not currently covered by its ADSL or fibre networks. The government is expected to offer WiMAX concessions this June, although full details of the sale have not yet been published.

http://www.telegeography.com/cu/article.php?article_id=16762&email=html

Two National Wimax Licences For Romania, February 23, Telegeograpgy.com

Romania's General Inspectorate for Communications and Information Technology (IGCTI) has said it will offer two national 3.5GHz WiMAX licences for auction in April. The regulator says it will also set aside spectrum for four regional WiMAX concessions and a number of local licences. The head of the IGCTI, Catalin Marinescu, said that it plans to alter its licence allocation procedure 'from comparative to competitive'. Meanwhile, the president of Romania's National Regulatory Authority for Communications and Information Technology (ANRCTI) is predicting that WiMAX technology will help boost broadband penetration rates in 2007.

http://www.telegeography.com/cu/article.php?article_id=16780&email=html

<http://www.einnews.com/romania/news.php?fid=102648597>

ISPS, Cell Cos In Wimax Scramble, February 22, DNA.com

"Look ma, no wires" — that could well be the shout from telecoms and internet operators preparing for an aggressive rollout of WiMax services across the country. The consumer could soon have the power of broadband in his pocket with a host of applications and the capability to make voice calls using internet, all thanks to WiMax enabled devices, which will flood the market in two years or so. While internet service providers (ISPs) and some cellular operators are already using WiMax to connect their towers (often referred to as a backhaul), commercial rollouts for enterprise customers and those who can afford it are beginning to happen fast.

<http://dnaindia.com/report.asp?NewsID=1081560>

Analyze 475 WiMAX-Related Patent with New Research Report, February 23,

Broadbandwirelessexchange.com

Research and Markets has announced the addition of Wireless Triple Play (WiMAX) IP & Patent Report to their offering. This Report demonstrates the enormous growth in innovative WiMax activity; last year's Directory covered about 50 new patents and this year's new Report studies over 475! The Report offers analysis of current and pending WiMAX-related patent litigation, and analysis of IP and Patents with registered IEEE Letters of Assurance. Patents are tracked for mobile and fixed WiMAX and related technologies such as WiBRO. Both U.S and worldwide patents are evaluated by company with a focus on fundamental network architecture, enabling software, and RF chipsets.

<http://www.bbwxchange.com/pubs/2007/02/23/page1423-471077.asp>

<http://www.80216news.com/pubs/2007/02/23/page1299-471077.asp>

MOSAID Wins Competitive Bid for Essential WiFi and WiMAX Patents from Agere Systems, February 22, Earthtimes.org

MOSAID Technologies Incorporated today announced that it has won a competitive bid for a portfolio of essential WiFi and WiMAX patents from Agere Systems. Under the terms of the agreement, MOSAID will pay Agere US\$25 million during MOSAID's fiscal 2007 fourth quarter, US\$5 million in the fiscal 2008 fourth quarter, and eight subsequent annual payments of US\$5 million, creditable against Agere's 20% of royalty revenues earned under a revenue sharing formula. "We are very pleased to have won this bid for some of the most valuable wireless patents in the world," said George Cwynar, President and Chief Executive Officer, MOSAID. "The acquisition of these wireless patents is a major step for MOSAID that firmly establishes our patent licensing program in another of the world's largest technology markets."

http://www.earthtimes.org/articles/show/news_press_release,64876.shtml

<http://www.us.design-reuse.com/news/news15318.html>

<http://www.80216news.com/pubs/2007/02/27/page1299-473925.asp>

<http://www.bbwxchange.com/pubs/2007/02/27/page1423-473925.asp>

Big Benefit For Wimax In EC Flexibility Plan, February 22, Wimaxday.net

The European Commission has issued a Communication that states its immediate plans to make its policies for radio spectrum more flexible. At the centre of the EC initiative is to implement technology and service neutrality in its spectrum policies that will provide for greater flexibility in the planning and use of spectrum resources. Numerous segments of European industry are dependent on spectrum for their communication services. According to the EC Communication, the total revenue from this sector in 2006 "would be between €240-260 billion." With the introduction of spectrum management policies that are market-based, combined with more flexible usage rights, the EC estimates this may add revenue of "€8-9 billion per year across Europe."

<http://www.wimaxday.net/site/2007/02/22/big-benefit-for-wimax-in-ec-flexibility-plan/>

I/Q Demodulator Suits 3G and WiMAX Basestation Receivers, February 24, 3G.com

A new high linearity direct conversion I/Q demodulator from Linear Technology significantly reduces the cost of 3G and WiMAX basestation receivers. The LT5575's extended operating frequency range from 800MHz to 2.7GHz covers all of the cellular and 3G infrastructure, WiMAX and RFID bands with a single part. Its capability to convert from RF directly to baseband at DC or low frequency results in simplified receiver designs, reduced component count and use of lower cost, low frequency components. The LT5575 offers an outstanding IIP3 of 28dBm and IIP2 of 54.1dBm at 900MHz, and an IIP3 of 22.6dBm and IIP2 of 60dBm at 1.9GHz. Moreover, the device has a conversion gain of 3dB, which when combined with a DSB Noise Figure of 12.7dB produces excellent receiver dynamic range.

<http://www.3g.co.uk/PR/Feb2007/4305.htm>

Policy 50MHz Delicensed In 5.8GHz Band For WiMAX Use; What About The Viability?, February 22 , Contentsutra.com

The government has de-licensed 50 MHz of spectrum in the 5.8 GHz band for commercial use, in accordance in global practices, reports the Economic Times. However, the delicensing has its own issues - of congestion since it is open to all, of equipment for this frequency having not received certification, and of limiting the access to the 5.8GHz band since most equipment is for the entire 5GHz range. More in ET. Here we're talking about lack of PC penetration and cost of the PC as inhibiting the growth of Internet usage; Laptops are still more expensive than PCs, and there aren't many mobile handsets in the market that can connect via WiMAX or WiFi, and I'm not even going to talk about the mobile interface.

<http://www.contentsutra.com/entry/419-50mhz-delicensed-in-58ghz-band-for-wimax-use-what-about-the-viability/>

SAW Filters Clean Up Wimax Signals, February 23, Electronicstalk.com

Sawtron has released a range of high-rejection SAW IF filters for 4G WiMAX 802.16e mobile broadband applications for use in transceiver basestations. Available from Gigahertz Marketing Solutions, Sawtron has released a range of high-rejection SAW IF filters for 4G WiMAX 802.16e mobile broadband applications for use in transceiver basestations. Typical is the SF0468A1 which is centred on 468MHz with a rejection at $F_c \pm 2.5\text{MHz}$ of 2.0dB maximum. The strength of Sawtron's design is the minimum 40dB (48dB typical) rejection at $F_c \pm 10\text{MHz}$. Passband insertion loss is typically 12.8dB. The input/output impedances are both 50ohm, with matching circuit, and the device is enclosed in a standard 7.0 x 5.0mm SMT package.

<http://www.electronicstalk.com/news/gih/gih109.html>

Explosive growth for WiMAX in Central America, March 1, Wimaxday.net

The densely populated Republic of El Salvador is the most advanced market in Central America for WiMAX, and according to experts, has significant growth potential. "The country with the largest potential for WiMAX is El Salvador," says Cintia Garza, a Mexico-based market analyst with the Canadian consultancy Maravedis. "This country not only has the largest number of WiMAX licenses but also the largest number of broadband subscribers." El Salvador has awarded a total of 15 licenses, including four last year. They are all

regional. Telemovil and SALNET El Salvador were among the companies that received their WiMAX licenses in October last year, and are now deploying their networks.

<http://www.wimaxday.net/site/2007/03/01/307/>

WiMAX Spectrum More Expensive in Developing Markets, February 28, news.ecoustics.com
WiMAX Spectrum costs are higher in developing markets says Pyramid Research in its latest report: "Deciphering the Cost of WiMAX Licenses." In order to achieve accurate and balanced comparisons between countries, the report calculates price per MHz per person. "The cost of WiMAX per MHz per person has been higher in markets with low broadband penetration," comments Dan Locke, Analyst at Pyramid Research. "Perhaps counter-intuitively, WiMAX spectrum is also more expensive in lower income countries, an indication of the higher perceived opportunity for WiMAX in such markets."

<http://news.ecoustics.com/bbs/messages/10381/331072.html>

<http://www.3g.co.uk/PR/Feb2007/4319.htm>

Arun Sarin Of Vodafone Said During The 3GSM Conference That The GSM Community Needs To In Effect Get Its Act Together When It Comes To LTE To Make Sure Wimax Doesn't Marginalize These Operators. Do You Agree With That Assessment?, February 27, Fiercewireless e-newsletter

A year ago most people felt like they were just getting their heads around 3G-what kind of feeds and speeds and what kind of applications would run on HSDPA. That is what they were deploying in any volume, and operators like Vodafone have publicly been concerned about the business model for UMTS. But I think operators saw what some would say the hype of WiMAX at 3GSM, namely a standard that has gone to product in 12 months. Sitting in the 3GPP camp and see LTE coming in 2011 and 2012 while seeing WiMAX coming in 2007 and 2008, they should be concerned. The wrong thing to do is ignore WiMAX, which will mature over the next 12 to 18 months.

www.fiercewireless.com

Chunghwa Telecom Will Bid For Wimax, February 27, Wimaxday.net

The chairman of Chunghwa Telecom, Ho Chen Tan, said yesterday that the Taiwanese company would bid for one of six spectrum licenses to be awarded in June. According to a report in Dow Jones, Ho Chen said, "We want both to learn more about WiMAX with regard to fixed-mobile convergence and to complement our operations." Earlier this month, Chunghwa also announced that it intends to work with equipment vendor Alvarion to deploy its network in Taiwan. Chunghwa Telecom is the largest integrated telecom provider in Taiwan, offering GSM, fixed-line, Internet and broadband services. As of January 2007, the company had 13 million fixed-line subscribers, 8.4 million GSM subscribers, and 3.8 million DSL subscribers.

<http://www.wimaxday.net/site/2007/02/27/chunghwa-telecom-will-bid-for-wimax/>

Swisscom Tests Wimax In Berne, February 27, Wimaxday.net

Swiss telecommunications operator Swisscom announced yesterday that it will begin WiMAX field trials in April in the region of Boltigen. The company said in a press release that "its installation in around 30 households will be free of charge for the community." It was further noted that "Swisscom will also evaluate the feasibility of such a solution to fill the current gaps in basic service provision." Swisscom was awarded a license for 3.5 GHz spectrum in 2006.

<http://www.wimaxday.net/site/2007/02/27/swisscom-tests-wimax-in-berne/>

http://www.unstrung.com/document.asp?doc_id=118094&WT.svl=wire1_1

How To Calculate The Cost Of Wimax Spectrum, March 1, Fiercewireless e-newsletter

In the past couple of issues we discussed whether WiMAX is, or should be, limited to licensed spectrum. Currently it isn't. But many believe that to guarantee customers a consistent quality of delivery, the bulk of WiMAX-based services would eventually run in licensed spectrum. The question of spectrum immediately pushes to the foreground the issues of global spectrum standardization and the costs of such spectrum.

With regard to the latter issue, Pyramid Research has just issued an interesting new study which offers clues about pricing trends in the field.

www.fiercewireless.com

Wimax And Security, March 1, Fiercewireless e-newsletter.

As WiMAX proliferates, questions about the technology's security are beginning to arise. True, WiMAX's authentication functions are stronger than WiFi's features, but they are far from being foolproof. A particularly worrisome aspect of WiMAX security is the lack of a base station or service provider authentication. This weakness makes WiMAX networks susceptible to man-in-the-middle attacks and potentially exposes subscribers to security breaches of a different severity. There are other security issues here, and Technewsworld's Paul Korzeniowski offers a good discussion of them.

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Sarin: We Must Work Faster to Beat Out WiMax, February 14, 3GSM Worldwide Daily

Operators need to pull together more efficiently to avoid the threat poised by Wimax, said Vodafone CEO Arun Sarin in Tuesday's morning keynote session. He called on the GSA and the industry as a whole to work faster with its plans on Long Term Evolution (LTE). Sarin pointed to the faster than anticipated adoption of WiMax on a world stage. "The GSMA needs to influence the ecosystem. We need to make sure that LTE is still not at the standards stage, while WiMax is commercial reality," warned Sarin. However, Sarin also noted that while WiMax- dubbed by some as "the elephant in the room"- may well be a commercial reality in some markets, it is still some distance away from being "primetime."

<http://3qsmworldcongress.com/>

Beyond 3G: Wimax Promises Higher Speed, February 26, Times of India

A much-hyped wireless technology is about to be put on the test. For the 60,000 people attending 3GSM, the wireless industry annual trade show that took place in Barcelona last week, WiMax was everywhere: On huge banners, on the lips of executives and on products in display cases. Everywhere that is expect in the real world. The vaunted new wireless technology promises to combine the speed of broadband internet access with the ubiquity of mobile phones.

www.timesofindia.com