

WiMAX Forum[®] Industry Research Report

November, 2010

About

The WiMAX Forum[®] Industry Research Report is a monthly summary of primary and secondary research and news, provided by WiMAX Forum to the industry. It includes the latest updates on WiMAX Forum-tracked statistics, product certification, regulatory information, technology standards and more. This report will be published and made available on the WiMAX Forum website the first week of every month. If you have any questions or comments regarding the research contained herein, please contact Jonathan Singer, the WiMAX Forum's Marketing Communications and Research Manager at Jonathan.Singer@wimaxforum.org.

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 - Ofcom makes public advice on liberalization of 2G spectrum for 3G in the UK

Executive Summary

- [WiMAX Forum currently tracks 587 WiMAX Deployments in 149 Countries.](#)
- [IEEE 802.16m approved as IMT-Advanced Technology](#)
- [US Broadband Stimulus Funds Bring WiMAX™ to Rural Communities](#)

Global Deployment Update

This section describes the current state of WiMAX deployments across the world. The data for this tool is delivered to us courtesy of [Informa Telecoms & Media](#), and can be viewed online in more detail at www.wimaxmaps.org. Please note that the numbers below do not necessarily represent total WiMAX networks in existence, but rather the total deployments that we currently track. Every month we find more data on new or existing deployments and add them to the database. If you are an operator, please check WiMAX Maps to make sure that your organization's information is accurate. *If it is either not there or is inaccurate, please email deploymentdata@wimaxforum.org, and we will update our information immediately.*

TOTAL DEPLOYMENTS*

**Note: "Deployments" in this case refers to WiMAX networks that are either in service or planned/in deployment (i.e. base stations are being deployed, but there are few/no subscribers yet).*

Total Deployments Tracked	587
<i>Total Deployments Tracked Last Month</i>	587
Total Countries** with WiMAX Deployments	149
<i>Last Month</i>	149

***Note: "Countries" in this case is representative of distinct telecommunications markets, and therefore this number may equal more than the total number of sovereign nations recognized by the UN. For example, Hong Kong and China have different regulatory structures, and are therefore treated as different markets.*

DEPLOYMENTS BY REGION

REGION	DEPLOYMENTS	COUNTRIES
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Africa	117	43
CALA	117	33
Asia-Pacific	109	23
Eastern Europe	86	21
Western Europe	76	17
North America (USA/Canada)	53	2
Middle East	29	10

DEPLOYMENTS BY FREQUENCY

2.3 GHz Deployments***	53
2.5 GHz Deployments***	115
3.3 GHz Deployments***	9
3.5 GHz Deployments***	307
5+ GHz Deployments***	21

***Note: In above table total deployment by Frequency may not add up to total deployments tracked. The missing deployments' statuses are unknown, and will be confirmed and updated.



For more information please visit www.wimaxmaps.org

POPs Coverage

In February, 2010, WiMAX Forum announced that as of the end of 2009, WiMAX service providers cover more than **621 Million** people. This estimate shows that WiMAX is on track to reach last year's EOY2010 forecast of 800M+ people. WiMAX Forum now forecasts that by 2011 there will be over 1 Billion people across the world within WiMAX coverage. This POPs update is a yearly project, and will be updated again at the beginning of 2011. Below is a regional breakout of the estimate:

Region	POPs Covered
Africa	81,347,832
Asia-Pacific	237,148,673
CALA	113,246,829
Eastern Europe	82,887,886
Middle East	27,390,827
North America	47,000,000
Western Europe	32,549,629
TOTAL	621,571,679

These numbers represent an estimate conducted by WiMAX Forum via primary and secondary research of operator POPs coverage on an operator-by-operator basis. Where the operator could not or would not respond to direct inquiry, estimates were made based on public operator statements, number of base stations, government-mandated buildout requirements, and other available information. Proprietary networks (pre-WiMAX/non-WiMAX) were **not included, and geographic overlap of operator coverage areas **was** taken into account.*

WiMAX Forum News Clips

Every week WiMAX Forum provides a series of weekly press clippings on the WiMAX industry. Below is a summary of the previous month's clips:

- [WiMAX Forum cries foul by Qualcomm, govt looks away – DNA India, October 31, 2010](#)
- [Sprint CEO: Our 4G Strategy Is WiMAX, Full Stop! – GigaOm, October 29, 2010](#)
- [WiMax Pushes Back – IT Business Edge, October 21, 2010](#)
- [ITU lays down law: WiMAX 2, LTE-Advanced are 4G, everyone else is a buster – Engaget, October 21, 2010](#)
- [Malaysia's WiMAX quad play shows rapid 4G progress in the region – 4Gtrends.com, October 20, 2010](#)
- [WiMAX nets \\$504m from US stimulus program – Rethink-wireless.com, October, 2010](#)
- [Acer head urges Taiwan, China to collaborate on WiMAX – The China Post, October 20, 2010](#)

- [Motorola Introduces Clear Path to 4G With WiMAX Access Point 850 – Consumer Electronics Daily News, October 20, 2010](#)
- [Sprint, Clearwire, Time Warner to bring their own branded WiMax 4G to New York – topnew.us, October 19, 2010](#)
- [Motorola and Nokia: Suiting Up for WiMAX 4G – GoingWiMAX.com, October 18, 2010](#)
- [Sequans Announces New WiMAX System-In-Package – RFGlobalnet.com, October 18, 2010](#)
- [Sprint promises WiMAX in NYC on November 1, LA on December 1, and San Francisco a few weeks later – Engadget, October 18, 2010](#)
- [Samsung WiMAX 2 test hits 330Mbps – Network World, October 04, 2010](#)
- [Kcell to launch mobile WiMAX in Atyrau \(Kazakhstan\) – WirelessFederation.com, October 8, 2010](#)
- [WiMAX ‘Deep Dishes’ Wi-Fi in Chicago Wireless Speed Tests – MuniWireless.com , October 6, 2010](#)

WiMAX Forum Certified™ Products

In October of 2010, WiMAX Forum certified 3 new devices.

Total WiMAX Forum Certified Products	250
<i>Base Stations</i>	62
<i>Subscriber/Mobile Stations</i>	188

Recent Certified Devices

Below is a list of the WiMAX devices certified in **October, 2010**:

Company	Product Name	Product Type	Frequency
MediaTek	MTI WiMAX Indoor CPE	Subscriber Station	2.5 GHz
Lenovo	IdeaPad (S10-3s)	Mobile Station	2.5/3.5 GHz
MediaTek	MTI WiMAX Outdoor CPE	Subscriber Station	2.5 GHz

WiMAX Forum Certified Product Vendors

WiMAX Vendors with WF Certified Products	Total
Base Station Vendors	26
Subscriber/Mobile Station Vendors	50

- Base Station Vendors
 - Airspan Networks, Alcatel-Lucent, Alvarion, Axxcelera, Cisco Systems, E.T. Industries, Harris Stratex, Huawei Technologies, Institute for Information Industry, Motorola, NEC, Nokia Siemens Networks, Nortel, PointRed Telecom Pvt Ltd, POSDATA, Proxim Wireless Corporation, Redline Communications, Runcom Technologies Ltd., Samsung, Selex Communications, SEQUANS Communications, Soma Networks, SR Telecom, WiNetworks, ZTE Corporation
- Subscriber/Mobile Station Vendors
 - Acer Incorporated, Airspan Networks, Alcatel-Lucent, Alvarion, ApaceWave Technologies, Axxcelera Broadband Wireless, Beceem, Cisco Systems, C-motech Co. Ltd., D-Link, E.T. Industries, Fujitsu, GCT Semiconductor, Inc., Gemtek Technology Co. Ltd, Gigaset Communications, Harris Stratex, Huawei Technologies, Infomark, Intel Corporation, Interbro, Japan Radio, Kouzuro Co Ltd, Kyocera, Lenovo, MediaTek, Micro-Star Int'l co.,LTD, MITSUMI ELECTRIC CO.,LTD., MODACOM Co., Ltd., Motorola, NEC, Oki Electric Industry Co., Ltd., Onkyo, Panasonic, PointRed Telecom, POSDATA, Redline Communications, Runcom Technologies Ltd., Samsung, Selex Communications, SEOWON INTECH Co., Ltd., SEQUANS Communications, Siemens AG, Sony, SR Telecom, Toshiba, Ubee Interactive, Wavesat Inc., ZTE Corporation, ZyXEL Communications Inc.

Regulatory Update

In partnership with WiMAX Forum Regulatory Working Group, AT4 Wireless maintains a detailed [Spectrum & Regulatory database](#). Below is a sample update from the database:

- **United Kingdom's Ofcom makes public official advice on liberalization of 2G spectrum for 3G** - U.K. regulator Ofcom published its advice to Government, saying that 900MHz and 1800MHz spectrum should be made available for 3G mobile services as soon as possible.