



Industry Research Report

January 2011

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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Executive Summary

- Happy New Year!
- **WiMAX Forum currently tracks 592 WiMAX Deployments in 149 Countries.**
- **WiMAX Forum contributes to RCR's reality check series with an article articulating WiMAX as a "4G" technology.**
- Hong Kong's OFTA Open to Re-Auctioning of 2.3 GHz spectrum

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 Tracked	592
Total Deployments Tracked Last Month	592
Total Countries** with WiMAX Deployments	149
Last Month	149

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).

**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
CALA	118	33
Africa	117	43
Asia-Pacific	109	23
Eastern Europe	86	21
Western Europe	76	17
North America (USA/Canada)	57	2
Middle East	29	10

Deployments By Frequency

2.3 GHz Deployments***	55
2.5 GHz Deployments***	115
3.3 GHz Deployments***	9
3.5 GHz Deployments***	309
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:

- **Reality Check: WiMAX is 4G. Period.** – RCRWireless, December 28th, 2010
- **Barrett Xplore attracts \$55 million in new investments** – New Brunswick Business Journal, December 22, 2010
- **Mobile WiMAX Galaxy Tab Coming Soon** – Telecoms Korea, December 22, 2010
- **Enforta Expands Debt Facility with EBRD** – WCAInternational, December 21, 2010
- **Sprint 4G WiMAX International Roaming Deal Signed** – Gizmocrunch, December 10, 2010
- **Sprint: 4G Tablet In The Works** - InformationWeek, December 10, 2010
- **Samsung hopeful of WiMax uptake in India** – istockanalyst.com, December 10, 2010
- **Sprint's WiMAX network coming to Denver Dec 19** – MobileCrunch, December 10, 2010
- **Clearwire Intros Combined Router Modem With WiFi** – InformationWeek, December 6, 2010

WiMAX Forum Certified™ Products

In December of 2010, WiMAX Forum certified 6 new devices.

Total WiMAX Forum Certified Products	259
Base Stations	62
Subscriber/Mobile Stations	197

Recent Certified Devices

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

Company	Product Name	Product Type	Frequency
Shanghai Longcheer3G Technology Co.	4G Hotspot	Mobile Station	2.5 GHz
Motorola	800 Series	Subscriber Station	3.5 GHz
Beceem	BCS5350	Subscriber Station	2.5 GHz
Beceem	BCS5350	Subscriber Station	3.5 GHz
Beceem	BCSM350	Subscriber Station	2.5 GHz
Beceem	BCSM350	Subscriber Station	3.5 GHz

WiMAX Forum Certified Product Vendors

WiMAX Vendors with WF Certified Products	Total
Base Station Vendors	26
Subscriber/Mobile Station Vendors	51

- 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, Kouziro 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, Shanghai Longcheer3G Technology Co., 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:

- **Hong Kong's OFTA Open to Re-Auctioning of 2.3 GHz spectrum** – In January, 2009 Hong Kong's Office of the Telecommunications Authority (OFTA) attempted to auction 90MHz of radio spectrum in the 2.3GHz band (2300MHz–2390MHz) for BWA services. At the time, it was not sold due to lack of interest; however, the government recently received inquiries regarding its use. OFTA is currently debating a possible new auction, and invites interested parties to submit their expressions of interest.

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