

Mobile WiMAX

Opportunities, Strategies & Forecasts, 2007-2012

This authoritative study provides a detailed analysis of the evolving market opportunity for mobile WiMAX and the application of Personal Broadband. With over 150 pages this report considers the next five years and is packed with market figures, industry interviews and intelligent analysis. With extensive primary and secondary research supporting in-depth quantitative forecasts, this report covers mobile WiMAX spectrum, market characteristics and profiles of leading equipment vendors, an overview on WiMAX security and analysis of mobile WiMAX throughout the value chain.

Coverage

- **Extensive Forecasts** Subscribers: Optimistic/conservative/moderate scenarios (personal broadband), Mobile WiMAX scenario comparisons, Mobile WiMAX (fixed WiMAX switch), Mobile WiMAX (personal broadband & fixed); Equipment: Base stations (number/value of market), Customer Premise Equipment (CPE), Total equipment market; Data/Voice services (individual & combined): Subscribers/revenue, Fixed & mobile WiMAX subscribers.
- **Key Interviews** Comprehensive and unique insight into the minds of movers and players involved in Mobile WiMAX, including Intel, Navini, Motorola, Beceem & Adaptix.
- **WiMAX Value Chain Analysis** Silicon vendors; Equipment manufacturers (OEMs/ODMs); Network operators/service providers.

Key Benefits

- A unique source of research, analysis and data for Mobile WiMAX technologies, market characteristics & forecasts.
- Practical analysis of the emerging opportunities available to vendors, operators and content providers.
- Unique insights: Interviews with leading operators, vendors & consultants.
- Benefit from fresh thinking and an intelligent market assessment from a respected thought leader.

A photograph of a man in a dark suit sitting on a sand dune, viewed from behind. He is looking out over a vast, hazy landscape under a red sky. An open laptop is on the sand in front of him.

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Mobile WiMAX - Interviews & Forecasts

report overview

This report provides a thorough analysis of current & future advancement in Mobile WiMAX. It provides an invaluable resource for mobile/cellular operators evaluating mobile WiMAX technology, telecom equipment vendors assessing technical comparisons, and consulting forecasts based on realistic timelines of adoption. It is an essential tool for silicon vendors in laying out equipment vendor strategies, while exploiting areas of opportunity within the Mobile WiMAX space. It provides regulators with granular regional forecasts, and essentially important market data for venture capitalists, while identifying areas for wireline and wireless ISP operators.

Author: Aditya Kaul is Associate Senior Analyst, and author of Mobile WiMAX and Fixed WiMAX.

interviews & forecasts

Interviews

Adaptix (Bryon Young - VP, Marketing & Product Management) • Beceem Communications (Lars Johnson - VP Business Development) • Flarion Technologies (Joe Barrett - Marketing Director, EMEA) • Hifn (Hank Cohen - Product Marketing Manager) • Intel (Gordon Graylish - Director, Communications Business Organisation EMEA) • Motorola (Andy McKinnon - Principal EMEA, WiMAX Business Development) • Navini Networks (Sai Subramanian - VP, Product Management & Strategic Marketing) • Qualcomm (Ryan Gorostiza - Director of Strategic Marketing) • WiMAX Forum (Mo Shakouri - VP Marketing & Chief Spokesman)

Forecast Suite (2007-2012)*

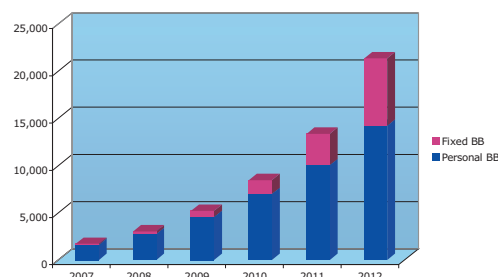
Subscriber: Cellular - base data forecasts; Mobile WiMAX forecasts: *Optimistic/conservative/moderate scenarios (users as % of 2G/3G subscribers; Scenario comparisons forecasts; Fixed WiMAX switch forecasts (subscribers as % of 2G/3G subscribers; Personal broadband & fixed (subscribers).*

Equipment: Base stations forecasts: *Number of base stations; Value of market (market revenue); Customer premise equipment forecasts (average cost of mobile WiMAX CPE); Total equipment market forecasts.*

Data/Voice Services: Data services subscribers/revenue forecasts; Voice services subscribers forecasts: *Mobile WiMAX voice subscribers as a % of cellular subscribers; Voice services revenue/data & voice subscribers forecasts; Global data & voice revenue/Fixed & mobile WiMAX subscribers forecasts*

*All forecasts include developed world (N/America, W/Europe, developed Asia, Australia) & developing world (S/America, India, China, E/Europe, ROW)

Mobile WiMAX Subscribers ('000) Fixed & Personal BB
- Global Forecast, 2007-2012



our background

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Juniper is independent & provides authoritative assessments of markets, technologies & industry players. Our analysts are experienced senior managers with proven track records in each of their specialist fields.

Each report is thoroughly researched, intelligently written & proof-read by qualified experts prior to publication. The report offers a rich mix of graphics, illustrations, technology roadmaps and tables.

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Executive Summary

[12 pages]

1. Introduction

[17 pages]

What is WiMAX?

- OFDM

Other Mobile Broadband Access Technologies

- Flash OFDM; UMTS-TDD; HSDPA; CDMA 1X EVDO

Technology Comparisons

- Coverage vs throughput; Frequency reuse and spectral efficiency; Frequency selective fading; Power control; Adaptive modulation and coding; Soft handoff; Cell breathing

Mobile WiMAX Frequencies

- 2.5 GHz

Duplexing Techniques

- FDD; TDD

WiMAX Forum

- Working groups; WiMAX certification; WiMAX forum view

2. Personal Broadband and 3G

[12 pages]

Personal Broadband

The Need for Mobility

- Shift from POTS to cellular and laptops outselling desktops; The emergence of 3G and mobile content

3G Issues

- Cost issues with 3G: High costs of 3G licenses; High costs of 3G intellectual property rights (IPR)
- Costs per bit: 3G vs mobile WiMAX

3. Market for Mobile WiMAX

[14 pages]

Demand Drivers

- Mobile WiMAX standard ratified: Certification process initiated; CPE: Reduction in costs & size; 3G vendors treating mobile WiMAX as complimentary; WiBro adoption; Widening gap between mobile bandwidth demand usage and ARPU

Demand Suppressants

- Delays in the mobile WiMAX certification process; Frequency availability

Market Characteristics

- Demographics; User cases; Regions; Services

802.16e Silicon Startup Market View

- Beceem Communications

4. Mobile WiMAX: Equipment Vendors

[7 pages]

Equipment Vendors

- Company/products/WiMAX strategy/customers: Navini Networks; Nortel Networks; Motorola; Adaptix; Alcatel

5. Mobile WiMAX Subscriber Forecasts*

[25 pages]

Forecasting Technique

- Statistical analysis (Gompertz curve; Fisher Pry model); Key assumptions; Methodology

Cellular Subscribers - Base Data

- Developed/developing world & global Mobile WiMAX Subscribers
- Optimistic/conservative/moderate scenarios: Mobile WiMAX users as % of 2G/3G subscribers
- Mobile WiMAX scenario comparisons
- Mobile WiMAX (fixed WiMAX switch): Mobile WiMAX subscribers as % of 2G/3G subscribers
- Mobile WiMAX (personal broadband & fixed): Subscribers

6. Mobile WiMAX Equipment Forecasts*

[11 pages]

Mobile WiMAX Base Stations

- Number of base stations
- Value of base station market; Global market revenue

Customer Premise Equipment (CPE)

- Average cost of mobile WiMAX CPE

Total Mobile WiMAX Equipment Market

- Developed/developing world & global revenue

7. Mobile WiMAX: Data/Voice Services*

[16 pages]

Mobile WiMAX Data Services Subscribers/Revenue

- Developed/developing world & global revenue

Mobile WiMAX Voice Services Subscribers

- Mobile WiMAX voice subscribers as a % of cellular subscribers

Mobile WiMAX Voice Services Revenue; Mobile WiMAX Data & Voice Subscribers

- Developed/developing world revenue forecasts

Global Mobile WiMAX Data & Voice Revenue Forecasts Fixed & Mobile WiMAX Subscribers

- Developed/developing world & global forecasts

8. WiMAX Security

[11 pages]

Introduction

Security Features in WiMAX

- Encryption; Authentication

Security Processors

- WiMAX security processor: Vendors (Cavium Networks; Hifn; SafeNet; Elliptic Semiconductor)

Security for WiMAX Applications

- Application/Network layer security

9. WiMAX: Value-Chain Analysis

[8 pages]

The WiMAX Value-Chain Analysis

- Silicon vendors; OEM/ODMs; Network operator/service provider (NO/SP)

Pages 155

* All forecasts include and are split into developed regions of the world (N/America, W/Europe, developed Asia, Australia), developing regions (S/America, India, China, Eastern Europe, Rest of the World) and Global unless otherwise otherwise indicated.

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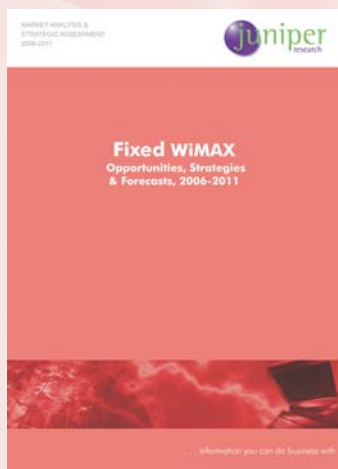
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