

Developments in Technology

Mobile WiMAX

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Presented by: Adam Haas



WiMAX: Another technology that relies on Towers and Rooftops



The Inner Sanctum





WiMAX Defined

- IEEE (*Institute of Electrical and Electronics Engineers*) Standard: 802.16e
- WiMAX (Worldwide Interoperability for Microwave Access)
- Fourth Generation Wireless (4G)
- IP Based
- Licensed Spectrum: 2.5GHz



How it Works

WiMAX according to Intel
Paste this link into your browser:

[http://www.intel.com/technology/wimax/demo/works/
demo.htm?iid=tech_wimax+demo](http://www.intel.com/technology/wimax/demo/works/demo.htm?iid=tech_wimax+demo)

(Close browser to return to presentation)



WiMAX Advantages

- Licensed vs. Unlicensed Spectrum
- High throughput:
 - 20 Megabits per second
 - 1-4 Mb average data rate
 - Current 3G networks only 400 to 700K
- Quality of Service (QoS)
- Designed for mobility



WiMAX Disadvantages

- Must be licensed....bars others from entry
- Time to reach critical mass
 - Chipsets
 - Base stations
 - Available investment



Mobile WiMAX

vs.

WiFi

- MAN
- Distance: 2 miles?
- Licensed
- Early stage

- LAN
- Distance: 100 ft.?
- Unlicensed
- Ubiquitous

Who is Promoting WiMAX?

THE WALL STREET JOURNAL.

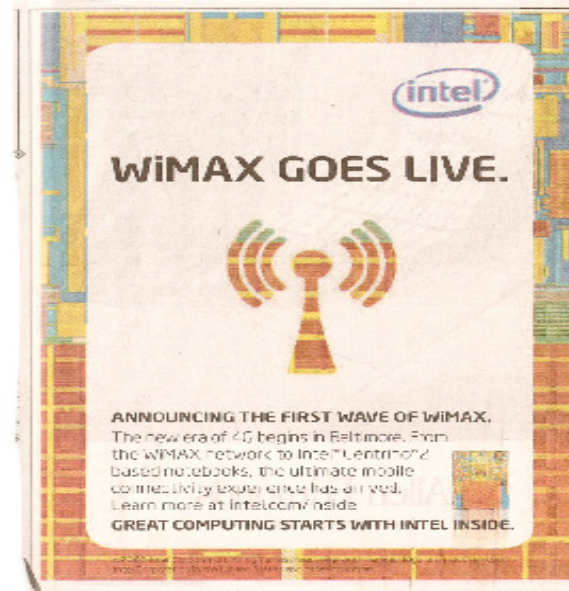
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intel

WIMAX GOES LIVE.

ANNOUNCING THE FIRST WAVE OF WIMAX.
The new era of 4G begins in Baltimore. From the WIMAX network to Intel® Centrino™ based notebooks, the ultimate mobile connectivity experience has arrived. Learn more at Intel.com/inside.

GREAT COMPUTING STARTS WITH INTEL INSIDE.

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WiMAX Vision for the Future

Personal Mobile Internet



Wireless broadband allowing you to stay connected anytime, anywhere, to any device.



WiMAX Deployment

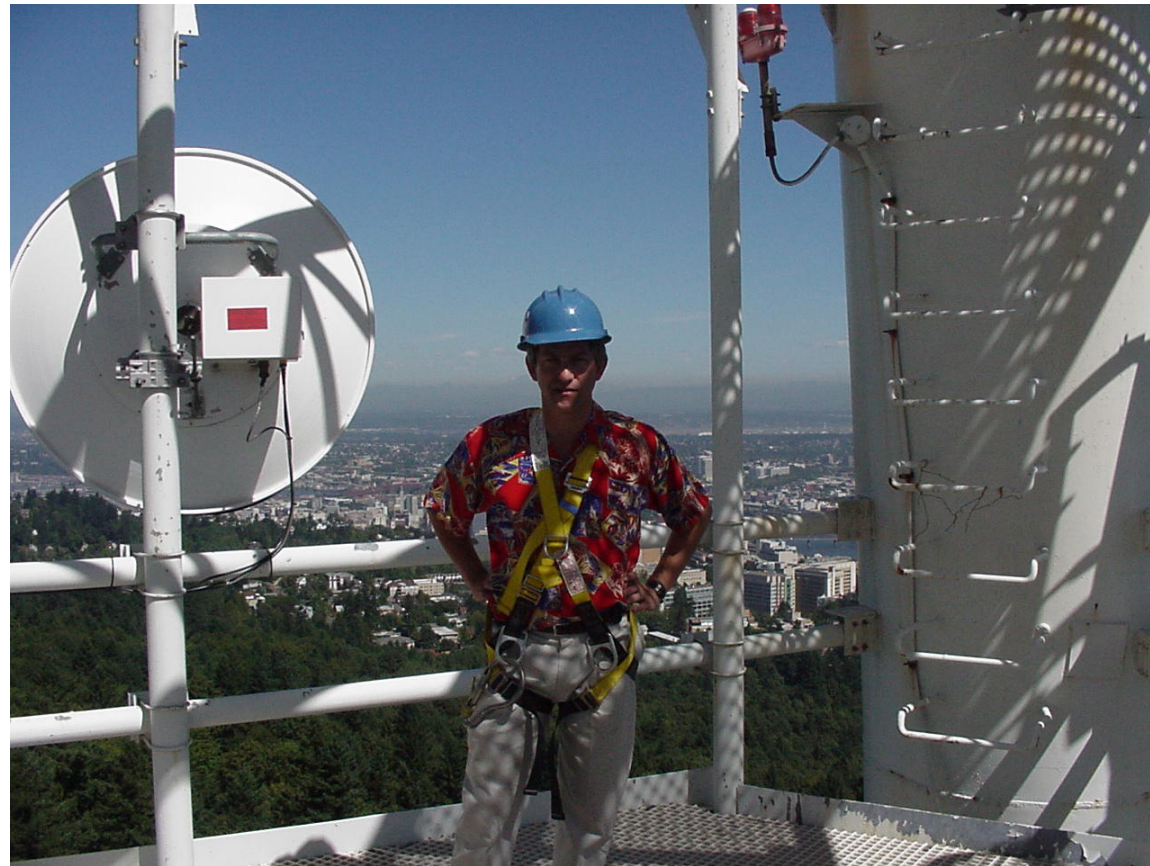
- Sprint/Nextel: XOHM
 - Live in Baltimore
- Clearwire
- Other XOHM Cities Pending
 - DC
 - Chicago
- Future Cities
 - Dallas/Ft. Worth
 - Boston
 - Providence
 - Philly
 - 100 Trials worldwide
- Funding sources include:
 - Google
 - Comcast
 - Time Warner
 - Intel
- Oregon Public Broadband Wireless



WiMAX, the Next WiFi?

- We'll see, but there is one thing we can count on.....

More opportunities to climb towers!





THANK YOU!

For further information:

Adam Haas
Converge Communications
503-997-5584

<http://www.convergecomm.com>

