



## WiMAX Handbook: Building 802.16 Networks (McGraw-Hill Communications)

By Frank Ohrtman

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Wi-MAX is a big deal because it's cheaper, smaller, simpler and easier to use than any existing broadband option (DSL, cable, fiber, 3G wireless) – it also bypasses the existing wired infrastructure and legacy service providers (i.e. the phone and cable companies). This book provides a basic technical introduction to the IEEE standard, allowing engineers, technologists, and decision-makers to ascertain how this hugely disruptive technology is going to affect their businesses.

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*By Frank Ohrtman*

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### Editorial Review

From the Back Cover

Master 802.16

Get a thorough introduction to WiMAX--the revolutionary new 802.16 IEEE standard for point-to-point and point-to-multipoint wireless broadband access. Written by networking expert Frank Ohrtman, this detailed guide annotates the 802.16 specification and explains how to design and build a robust, reliable, and secure WiMAX network that takes full advantage of the wide range, increased throughput, and "last mile" solutions offered by WiMAX.

Comprehensive Coverage

This unique resource describes how WiMAX affects current telecom technologies including Wi-Fi, fiber optics, and VoIP, and discusses the business and economic implications of this ground-breaking technology. Readers will find complete details on:

- Annotated 802.16 specification
- WiMAX architecture
- Range, power, bandwidth, and roaming
- QoS and security
- Enterprise and residential applications
- Wireless Metro Area Network (WMAN) deployments
- Regulatory aspects including FCC guidelines

A DETAILED GUIDE TO WiMAX

Introduction \* The Specs on the IEEE 802.16 \* Range, Power and Bandwidth--The "Why" of WiMAX \* WiMAX Quality of Service \* Security \* WiMAX Architecture: The Death of Fiber-Optic Networks As We Know Them \* VoIP, WiMAX, and Wi-Fi: The Death of Telephone Companies As We Know Them \* Video and WiMAX: The Death of Cable TV as We Know It • Economics of WiMAX \* Regulatory Aspects of WiMAX \* Conclusion: WiMAX as Disruptive Technology

About The Author: Frank Ohrtman is the founder of Wi-Max Systems, a telecommunications consulting firm. He previously held positions with Vsys, Lucent, and Netrix, and is a former U.S Navy Intelligence Officer with a specialization in electronic warfare. He is the author of *Softswitch* and *The Wi-Fi Handbook*, both from McGraw-Hill.

About the Author

Frank Ohrtman (Denver, CO) is the Founder of Softswitch Consulting, a telecommunications consulting firm. He previously held positions with Vsys, Lucent, and Netrix, and is a former U.S Navy Intelligence Officer. He is the author of *Softswitch* and *The Wi-Fi Handbook*.

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