



Wireless Middle Mile

Infrastructure Backhaul Solutions

Overview

It is imperative that WiMAX service providers build and maintain their own “middle mile” infrastructure backhaul networks. This is especially true of rural areas where the incumbent telephone company has the only “middle mile” connection to the outside world. Any service provider that might pose a competitive threat to the incumbent would be wise to avoid relying on that incumbent competitor for their vital connection to an IP backbone.

In addition, any service provider vying for federal grants or loans to build new “last mile” broadband access would be wise to demonstrate to federal officials that they have constructed an independent middle mile that provides a “diverse path” or a redundant connection to the Internet for the communities to be served.

Key Findings

- Building a Last Mile broadband network without a diverse and robust Middle Mile to support it will be a waste of grant dollars. Wireless backhaul solutions such as licensed microwave and gigabit Ethernet solutions provide very cost effective alternatives to expensive fiber optic cabling (and trenching).
- Wireless backhaul solutions are just as reliable as fiber optic cable
- Wireless backhaul networks can be planned in a matter of days as opposed to years for fiber optic cabling
- Wireless Middle Mile infrastructure may be an important priority for the BTOP

Target Audience

- BTOP grant applicants
- Public sector IT directors
- Incumbent telecom operators
- WiMAX solution providers
- Vendors for WiMAX and/or the enterprise industries
- Enterprise personnel responsible for computing and communications
- Investors in the WiMAX space and/or enterprise automation

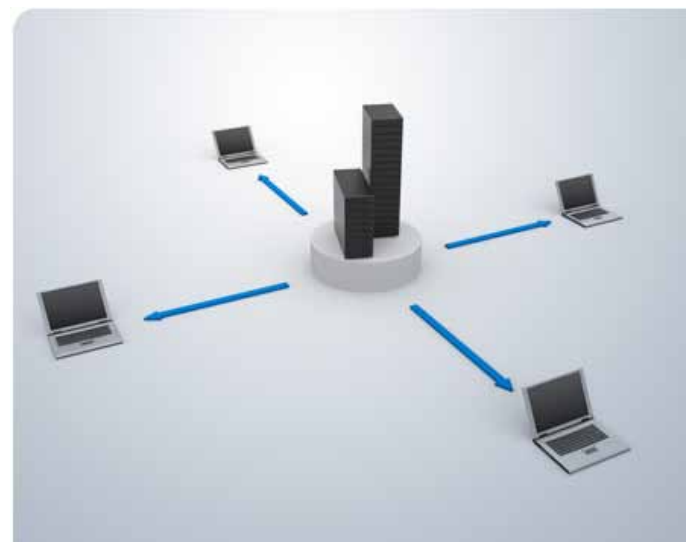


Table of Contents

Executive Summary 4	Frequency Reuse 19
Wireless Middle Mile Solutions 5	Rain fades 19
Backhaul Requirements 9	Reliability/availability 20
Licensed Microwave Wireless Backhaul Solutions 10	Ease of Licensing: E-Band in the US 20
Licenses protect the links 11	Conclusion 20
Gigabit Ethernet Wireless Backhaul Solutions 13	Architecture for Middle Mile Infrastructure Networks 22
60 GHz: Millimeter-wave 13	Considerations?? 22
80 GHz: E-Band 13	Backhaul Architectures 23
Advantages of the 60 and 80 GHz Bands 14	Star 23
Very Narrow Beamwidth 14	Mesh 24
Range and Throughput 15	Ring 27
Security 16	Consecutive Point Network 29
Quality of Service (QoS) 17	Conclusion 32
Interference mitigation 18	About the Author 33

Tables

Table 1 Comparison of wireless backhaul technologies 5
Table 2 comparisons pf beamwidths for wireless backhaul solutions 15
Table 3 Range and throughput parameters for 60 and 80 GHz backhaul solutions 15

About Author



Frank Ohrtman has almost 20 years experience in VoIP and wireless applications. He is the president of WMX Systems, LLC, a Denver, Colorado-based consulting and systems integration firm. Mr. Ohrtman learned to perform in-depth research and write succinct analyses during his years as a Navy Intelligence Officer (1981-1991) during which he specialized in electronic intelligence and electronic warfare. He is a veteran of U.S. Navy actions in Lebanon (awarded Navy Expeditionary Medal), Grenada, Libya (awarded Joint Service Commendation Medal), and the Gulf War (awarded National Defense Service Medal).

His telecommunications career began with selling VoIP gateway switches for Netrix Corporation to long distance bypass carriers. He went on to promote softswitch solutions for Lucent Technologies (Qwest Account Manager) and Vsys (Western Region Sales Manager). His consulting clients include national governments and tier one telephone companies.

Mr. Ohrtman is a Gerson Lehrman Group Scholar (<http://www.glgcouncils.com>) and serves as Dean of WiMAX for Applied Learning Solutions (<http://www.e-als.com>). He is a regular blogger and contributor to WiMAX.com (<http://www.wimax.com>) and annual presenter at WiMAX World (<http://www.wimaxworld.com>) as well as local Cisco Users Groups. Mr. Ohrtman serves as an advisor to Bush Telecommunications Pty Ltd and the Rural Broadband Consortium of Australia.

Mr. Ohrtman holds a Master of Science degree in Telecommunications from Colorado University College of Engineering (master's thesis: "Softswitch As Class 4 Replacement-A Disruptive Technology"), a Master of Arts degree in International Relations from Boston University and a Bachelor of Arts, Political Science, from University of Iowa

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Report Title

Wireless Middle Mile Infrastructure Backhaul Solutions

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Company License ... \$ 1,995 USD

Team License (2-5 People)... \$ 865 USD

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