



# Introduction to 802.16 WiMax, Wireless Broadband Technology, Operation and Services

By Lawrence Harte

Download now

Read Online 

## Introduction to 802.16 WiMax, Wireless Broadband Technology, Operation and Services By Lawrence Harte

This book explains the functional parts of a WiMax system and its basic operation. You will learn how WiMax can use base stations to provide high speed data connections that can be used for voice, data and video services to distances of over 30 km. The original WiMax system was designed to operate at 10-66 GHz and it had to change to offer broadband wireless access (BWA) in the 2-11 GHz frequency range. To do this, the WiMax standard includes variants (profiles) that use different combinations of radio channel types (single carrier -vs- multicarrier), modulation types, channel coding types to provide fixed, nomadic or portable services. WiMax can provide multiple types of services to the same user with different QoS levels. For example, it is possible to install a single WiMax transceiver in an office building and provide real time telephone services and best effort Internet browsing services on the same WiMax connection. To do this, WiMax was designed to mix contention based (competitive access) and contention free (polled access) to provide services which have different quality of service (QoS) levels. You will learn about WiMax protocols and how they are designed to allow for point to point (PTP), point to multipoint (PMP) and mesh networks. Operators can use the mesh configuration to allow it to link base stations without the need to install or lease interconnecting communication lines. Some of the services WiMax operators can provide include leased line, residential broadband, commercial broadband and digital television (IPTV) services. WiMax can use radio channel bandwidths that can vary from 1.25 MHz to 28 MHz and data transmission rates can exceed 155 Mbps. The types of data connections on WiMax radio channels include basic (physical connection), primary (device control), secondary (configuration) and transport (user data). You will learn about the typical range for WIMAX systems and how to extend the range of WIMAX systems through the use of directional antennas.



[Download Introduction to 802.16 WiMax, Wireless Broadband T ...pdf](#)

 [Read Online Introduction to 802.16 WiMax, Wireless Broadband ...pdf](#)

# Introduction to 802.16 WiMax, Wireless Broadband Technology, Operation and Services

By Lawrence Harte

## Introduction to 802.16 WiMax, Wireless Broadband Technology, Operation and Services By Lawrence Harte

This book explains the functional parts of a WiMax system and its basic operation. You will learn how WiMax can use base stations to provide high speed data connections that can be used for voice, data and video services to distances of over 30 km. The original WiMax system was designed to operate at 10-66 GHz and it had to change to offer broadband wireless access (BWA) in the 2-11 GHz frequency range. To do this, the WiMax standard includes variants (profiles) that use different combinations of radio channel types (single carrier –vs- multicarrier), modulation types, channel coding types to provide fixed, nomadic or portable services. WiMax can provide multiple types of services to the same user with different QoS levels. For example, it is possible to install a single WiMax transceiver in an office building and provide real time telephone services and best effort Internet browsing services on the same WiMax connection. To do this, WiMax was designed to mix contention based (competitive access) and contention free (polled access) to provide services which have different quality of service (QoS) levels. You will learn about WiMax protocols and how they are designed to allow for point to point (PTP), point to multipoint (PMP) and mesh networks. Operators can use the mesh configuration to allow it to link base stations without the need to install or lease interconnecting communication lines. Some of the services WiMax operators can provide include leased line, residential broadband, commercial broadband and digital television (IPTV) services. WiMax can use radio channel bandwidths that can vary from 1.25 MHz to 28 MHz and data transmission rates can exceed 155 Mbps. The types of data connections on WiMax radio channels include basic (physical connection), primary (device control), secondary (configuration) and transport (user data). You will learn about the typical range for WIMAX systems and how to extend the range of WIMAX systems through the use of directional antennas.

## Introduction to 802.16 WiMax, Wireless Broadband Technology, Operation and Services By Lawrence Harte Bibliography

- Rank: #7768724 in Books
- Published on: 2006-08-01
- Original language: English
- Number of items: 1
- Dimensions: 11.02" h x .24" w x 8.27" l, .62 pounds
- Binding: Paperback
- 116 pages



[Download Introduction to 802.16 WiMax, Wireless Broadband T ...pdf](#)



[Read Online Introduction to 802.16 WiMax, Wireless Broadband ...pdf](#)



---

## **Download and Read Free Online Introduction to 802.16 WiMax, Wireless Broadband Technology, Operation and Services By Lawrence Harte**

---

### **Editorial Review**

#### **About the Author**

Mr. Harte is the president of Althos, an expert information provider whom researches, trains, and publishes on technology and business industries. He has over 29 years of technology analysis, development, implementation, and business management experience. Mr. Harte has worked for leading companies including Ericsson/General Electric, Audiovox/Toshiba and Westinghouse and has consulted for hundreds of other companies. Mr. Harte continually researches, analyzes, and tests new communication technologies, applications, and services. He has authored over 60 books on telecommunications technologies and business systems covering topics such as mobile telephone systems, data communications, voice over data networks, broadband, prepaid services, billing systems, sales, and Internet marketing. Mr. Harte holds many degrees and certificates including an Executive MBA from Wake Forest University (1995) and a BSET from the University of the State of New York, (1990).

### **Users Review**

#### **From reader reviews:**

##### **Margherita Pettit:**

In this 21st century, people become competitive in each way. By being competitive right now, people have do something to make these people survives, being in the middle of typically the crowded place and notice through surrounding. One thing that oftentimes many people have underestimated this for a while is reading. Yep, by reading a publication your ability to survive raise then having chance to endure than other is high. To suit your needs who want to start reading a book, we give you this kind of Introduction to 802.16 WiMax, Wireless Broadband Technology, Operation and Services book as starter and daily reading book. Why, because this book is usually more than just a book.

##### **Michael Lockwood:**

Nowadays reading books become more than want or need but also be a life style. This reading practice give you lot of advantages. Advantages you got of course the knowledge the actual information inside the book that improve your knowledge and information. The details you get based on what kind of e-book you read, if you want send more knowledge just go with education books but if you want feel happy read one along with theme for entertaining for example comic or novel. Typically the Introduction to 802.16 WiMax, Wireless Broadband Technology, Operation and Services is kind of book which is giving the reader unpredictable experience.

##### **John Flores:**

Reading can called mind hangout, why? Because while you are reading a book especially book entitled Introduction to 802.16 WiMax, Wireless Broadband Technology, Operation and Services your mind will drift away trough every dimension, wandering in most aspect that maybe unfamiliar for but surely will

become your mind friends. Imaging each word written in a publication then become one application form conclusion and explanation that will maybe you never get before. The Introduction to 802.16 WiMax, Wireless Broadband Technology, Operation and Services giving you yet another experience more than blown away your mind but also giving you useful details for your better life in this particular era. So now let us present to you the relaxing pattern is your body and mind will probably be pleased when you are finished reading through it, like winning a. Do you want to try this extraordinary spending spare time activity?

**Melissa Fernandez:**

This Introduction to 802.16 WiMax, Wireless Broadband Technology, Operation and Services is great reserve for you because the content that is full of information for you who all always deal with world and still have to make decision every minute. This book reveal it facts accurately using great organize word or we can state no rambling sentences inside it. So if you are read the item hurriedly you can have whole facts in it. Doesn't mean it only provides straight forward sentences but challenging core information with wonderful delivering sentences. Having Introduction to 802.16 WiMax, Wireless Broadband Technology, Operation and Services in your hand like finding the world in your arm, data in it is not ridiculous a single. We can say that no e-book that offer you world inside ten or fifteen small right but this publication already do that. So , this can be good reading book. Hey there Mr. and Mrs. hectic do you still doubt which?

**Download and Read Online Introduction to 802.16 WiMax, Wireless Broadband Technology, Operation and Services By Lawrence Harte #BLYQ5PST7WD**

# **Read Introduction to 802.16 WiMax, Wireless Broadband Technology, Operation and Services By Lawrence Harte for online ebook**

Introduction to 802.16 WiMax, Wireless Broadband Technology, Operation and Services By Lawrence Harte Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Introduction to 802.16 WiMax, Wireless Broadband Technology, Operation and Services By Lawrence Harte books to read online.

## **Online Introduction to 802.16 WiMax, Wireless Broadband Technology, Operation and Services By Lawrence Harte ebook PDF download**

**Introduction to 802.16 WiMax, Wireless Broadband Technology, Operation and Services By Lawrence Harte Doc**

**Introduction to 802.16 WiMax, Wireless Broadband Technology, Operation and Services By Lawrence Harte MobiPocket**

**Introduction to 802.16 WiMax, Wireless Broadband Technology, Operation and Services By Lawrence Harte EPub**