



Bluetooth: Connect Without Cables

By Jennifer Bray, Charles F. Sturman

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- The complete Bluetooth tutorial and reference for every professional
- Accessible, practical explanations of the entire Bluetooth standard
- Bluetooth applications, components, security, and development issues
- The future of Bluetooth: Bluetooth 2.0 and beyond

***Foreword by Joe Mendolia of CATC.

Introducing tomorrow's hottest wireless technology: Bluetooth!

Bluetooth wireless technology is on the verge of revolutionizing communications, enabling virtually any communications device to transmit voice or data securely, at high speed-without wires! Now there's a complete professional's guide to this remarkable technology. In *Bluetooth: Connect Without Cables*, two leading Bluetooth implementers explain the Bluetooth standard more clearly than it's ever been explained before. Even better, they place Bluetooth in context, covering global markets, applications, complementary technologies, connection to WAP, even leading-edge development issues.

Coverage includes:

- Bluetooth: origins, goals, and key industry players
- How Bluetooth voice and data connections work: service discovery, piconets, scatternets, and other key concepts
- Key Bluetooth components: antennas, radios, host systems, profiles, and more
- The Bluetooth protocol stack, in depth: module layers, host layers, and cross-layer functions
- Securing Bluetooth communications
- Bluetooth production testing, conformance, and qualification
- The emerging market for Personal Area Networking devices, including other technologies related to Bluetooth.
- The future of Bluetooth: Bluetooth 2.0, Human Interface Devices, and more

Whether you're a systems designer, developer, manager, marketer, or customer, *Bluetooth: Connect Without Cables* shows you exactly how to exploit Bluetooth for simple, seamless, intuitive wireless communications-starting now.

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Editorial Review

From the Inside Flap

Preface

This book came about from a conversation in the Hotel Mercure bar in Brussels, Belgium. We had just finished the first day of client training in our Bluetooth solution, and hadn't said a single word about our implementation yet! Why? Well, Bluetooth was so new that nobody knew much about it, there were no textbooks, no courses, nothing but a thick specification document and a few white papers. So before we could begin to explain the fine details of what we'd done, we had to spend a day explaining the Bluetooth specification. After the first beer, we thought somebody ought to write a book about Bluetooth; after the second beer, we thought we should do it; after the last beer, we had a contents page.

Why the title? Well, "Connect without Cables" is basically what Bluetooth started out doing. It's a short range wireless communication system, and the word "wireless" pretty much says it all. The first applications people came up with were all about throwing away the clutter of cables that plagues modern portable devices—Bluetooth took away the cable dangling from a headset, removed the clutter of wires at the back of a PC, and let a phone talk to a PDA without needing a cable that took up more pocket space than either device. Now there are more imaginative uses than straight cable replacement, from small wireless office networks to the much hyped Personal Area Network, or PAN. But the basic functionality that Bluetooth provides is still the same: connection without cables.

During the last year or so, we have seen a Bluetooth system design evolve from abstract idea to evaluation board. Along the way, we struggled to understand the Bluetooth specification. Some parts of it don't make sense until you've read later parts, some parts don't make sense until you've tried them out, and some of the parts we started with will never make sense and have since been corrected. The specification is in a much better state than the preliminary versions we started with, but like all such things, it's still not an easy read. So this book aims to provide people working with Bluetooth an easier introduction than the one we had.

A new version of the Bluetooth specification (version 1.1) is due to be published during the 4th quarter of 2000. In order to keep this text consistent, we only consider the existing version 1.0B specification except for one or two proposed corrections for v1.1 which are especially worth mentioning here. Although these are mostly minor improvements and clarifications to the existing 1.0B specification, it is important for the reader to keep abreast of any revisions particularly since there may well be other refinements before the major evolution which Bluetooth 2.0 will represent. To facilitate this, there is a companion Website to accompany Bluetooth: Connect Without Cables where we will place any errata and useful updates to the text as Bluetooth evolves.

From the Back Cover

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About the Author

JENNIFER BRAY is a consultant at CSR. She holds a doctorate in wireless communications and has nearly a decade's experience in communications product development, including wireless ATM, ADSL, Ethernet, CDMA, and GSM systems.

CHARLES F STURMAN manages TTPCom's Baseband Bluetooth hardware development program. He has more than ten years' experience in designing low-cost, low-power wireless communications and computer systems. Charles holds a Bachelors in Electronics and a Masters degree in Information Engineering.

Users Review

From reader reviews:

Jeremy Brown:

Reading a book to get new life style in this calendar year; every people loves to go through a book. When you go through a book you can get a lot of benefit. When you read publications, you can improve your knowledge, because book has a lot of information upon it. The information that you will get depend on what forms of book that you have read. If you need to get information about your review, you can read education books, but if you act like you want to entertain yourself read a fiction books, these kinds of us novel, comics, in addition to soon. The *Bluetooth: Connect Without Cables* will give you new experience in examining a book.

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