



## Bluetooth: Connect Without Cables

By Jennifer Bray, Charles F. Sturman

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**Bluetooth: Connect Without Cables** By Jennifer Bray, Charles F. Sturman

- 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

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#### Walter Johnson:

Why don't make it to become your habit? Right now, try to ready your time to do the important action, like looking for your favorite reserve and reading a publication. Beside you can solve your long lasting problem; you can add your knowledge by the reserve entitled *Bluetooth: Connect Without Cables*. Try to face the book *Bluetooth: Connect Without Cables* as your close friend. It means that it can for being your friend when you truly feel alone and beside that course make you smarter than previously. Yeah, it is very fortuned in your case. The book makes you considerably more confidence because you can know every little thing by the book. So , let's make new experience along with knowledge with this book.

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A lot of people always spent their particular free time to vacation or maybe go to the outside with them friends and family or their friend. Do you realize? Many a lot of people spent these people free time just watching TV, or playing video games all day long. If you need to try to find a new activity this is look different you can read a new book. It is really fun to suit your needs. If you enjoy the book that you just read you can spent 24 hours a day to reading a publication. The book Bluetooth: Connect Without Cables it is extremely good to read. There are a lot of individuals who recommended this book. These people were enjoying reading this book. Should you did not have enough space to create this book you can buy the actual e-book. You can m0ore simply to read this book from your smart phone. The price is not too expensive but this book offers high quality.

**Lawrence Abbate:**

Bluetooth: Connect Without Cables can be one of your nice books that are good idea. Most of us recommend that straight away because this reserve has good vocabulary which could increase your knowledge in language, easy to understand, bit entertaining but still delivering the information. The author giving his/her effort to get every word into delight arrangement in writing Bluetooth: Connect Without Cables but doesn't forget the main level, giving the reader the hottest and also based confirm resource data that maybe you can be considered one of it. This great information could drawn you into brand new stage of crucial thinking.

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