



## Bluetooth 1.1: Connect Without Cables (2nd Edition)

By Jennifer Bray, Charles F. Sturman

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**Bluetooth 1.1: Connect Without Cables (2nd Edition)** By Jennifer Bray, Charles F. Sturman

- The authoritative, in-depth guide to the new Bluetooth 1.1 specification
- Bluetooth 1.1's dramatic improvements in interoperability and reliability
- Includes thoroughly revised coverage of Bluetooth security and power conservation
- New Bluetooth profiles—including the long-awaited Personal Area Networking profile!

The first complete guide to the new Bluetooth 1.1 wireless specification!

The Bluetooth specification has been updated to deliver dramatic improvements in both reliability and interoperability. *Bluetooth 1.1: Connect Without Cables, Second Edition* updates the industry's #1 Bluetooth guide to cover these critical new enhancements—and to offer detailed guidance on every aspect of Bluetooth 1.1 development.

Bluetooth SIG committee members Jennifer Bray and Charles Sturman place Bluetooth 1.1 in context, covering markets, applications, complementary technologies, key development issues, and explaining every goal of the new release. They review the components of a Bluetooth system, explain how Bluetooth connections work, introduce essential concepts such as piconets and scatternets, and cover the Bluetooth protocol stack in detail from top to bottom.

- Interoperability between 1.0b and 1.1
- Details of 1.1 improvements with explanations of the reasons behind each change
- Important changes to Bluetooth low-power modes, encryption, and authentication
- Bridging Ethernet and Bluetooth with Bluetooth Network Encapsulation Protocol
- How to use Universal Plug and Play with the Bluetooth protocol stack
- Profiles which will bring new products including: Human Interface Devices, Hands-Free Phone usage, Basic Printing, Basic Imaging, and Hard Copy Cable Replacement
- Technologies used by Bluetooth: OBEX, WAP, GSM TS07.10, UPnP, Q.931, and UUIDs

- Comparison of related technologies: DECT, IrDA, Home RF, HiperLAN, and 802.11

Whether you're experienced with V.1.0 or working with Bluetooth for the first time, *Bluetooth 1.1: Connect Without Cables, Second Edition* is your definitive resource for building interoperable, reliable wireless applications—right now!

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### Editorial Review

From the Back Cover

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About the Author

**JENNIFER BRAY** is a consultant at Cambridge Silicon Radio. She is a Councillor on the Bluetooth Architectural Review Board of the Bluetooth Special Interest Group. She holds a doctorate in wireless communications and has extensive experience in communications product development, including secure Ethernet, wireless ATM, ADSL, DAB, CDMA, GSM, and Bluetooth systems.

**CHARLES STURMAN** is Bluetooth Program Manager for TTPCom, responsible for Bluetooth product development and business development strategy. He is a member of the Radio1 Improvements Subgroup, chartered by the Bluetooth Specification Improvements Group to enhance the Bluetooth specification. He has ten years of experience in designing low-cost, low-power communications and computer systems.

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## Preface to the Second Edition

A year later, and another version of the Bluetooth specification released, the Bluetooth World has moved on far enough to justify a second edition of this book. Whilst updating for version 1.1 we've also taken the opportunity to correct a few errors that crept into the first edition, thanks to Don Felton, Bill Saltzstein, Klaus Mehle, Steve Singer, Simon Morris, and everyone else who provided us with errata. Each section of the book has been updated with information on version 1.1 of the Bluetooth specification. Many of the changes have just been clarifications, but here and there functionality has been altered and improved. Where 1.0b and 1.1 are different we have identified the changes, and where relevant included notes on backwards compatibility. For those of you who want a summary of the changes there is an appendix with details on the critical errata which led to version 1.1. This appendix tells you in one place what is different, and why it was altered.

Of course as the specification progresses, so does the rest of the community of Bluetooth users. In the past year many new products and components have qualified, and the qualification program itself has matured. Real products have come on the market, and we're starting to see Bluetooth technology in use for real. To reflect those developments you'll find the section on Bluetooth in Context has changed. We've reached version 1.1, but still more progress is being made in many Bluetooth SIG working groups to bring out a new generation of profiles, and to enhance the core Bluetooth specification. As we were updating the book for version 1.1 some draft profiles were put on public release. These profiles open up new applications for Bluetooth devices, so to cover them we've added a whole new section to the book called "Applications—The Bluetooth Profiles". The draft profiles may change slightly before being formally adopted, and more new profiles are due for public release soon. Watch the book's companion web site [phptr/bluetooth/bray/index.html](http://phptr/bluetooth/bray/index.html) for more details: we'll publish these after information is made available in public.

## Users Review

### From reader reviews:

#### Jose Longoria:

Nowadays reading books are more than want or need but also become a life style. This reading habit give you lot of advantages. The benefits you got of course the knowledge the actual information inside the book that improve your knowledge and information. The info you get based on what kind of reserve you read, if you want attract knowledge just go with education books but if you want truly feel happy read one using theme for entertaining for example comic or novel. The particular Bluetooth 1.1: Connect Without Cables (2nd Edition) is kind of book which is giving the reader capricious experience.

#### Rose Waldman:

A lot of people always spent their very own free time to vacation as well as go to the outside with them loved ones or their friend. Were you aware? Many a lot of people spent many people free time just watching TV, as well as playing video games all day long. If you want to try to find a new activity honestly, that is look different you can read a book. It is really fun to suit your needs. If you enjoy the book that you read you can spent the whole day to reading a guide. The book Bluetooth 1.1: Connect Without Cables (2nd Edition) it is quite good to read. There are a lot of people that recommended this book. These folks were enjoying reading this book. If you did not have enough space to bring this book you can buy often the e-book. You can m0ore very easily to read this book from your smart phone. The price is not to cover but this book has high quality.

**Carol Berry:**

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