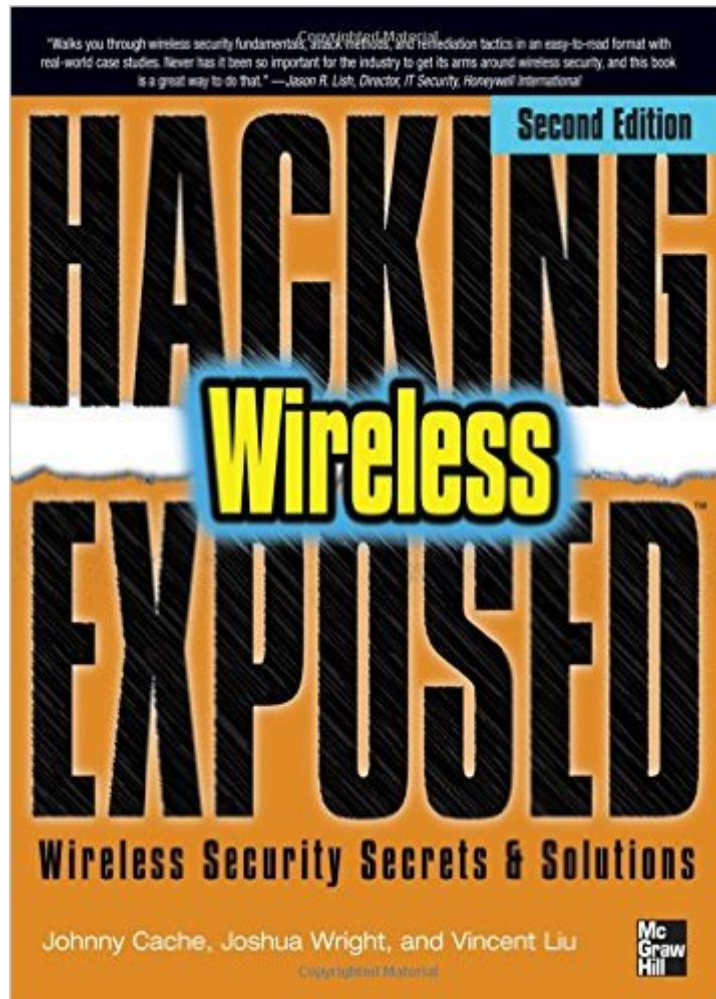


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# Hacking Exposed Wireless: Wireless Security Secrets & Colutions



## Synopsis

The latest wireless security solutions Protect your wireless systems from crippling attacks using the detailed security information in this comprehensive volume. Thoroughly updated to cover today's established and emerging wireless technologies, *Hacking Exposed Wireless*, second edition reveals how attackers use readily available and custom tools to target, infiltrate, and hijack vulnerable systems. This book discusses the latest developments in Wi-Fi, Bluetooth, ZigBee, and DECT hacking, and explains how to perform penetration tests, reinforce WPA protection schemes, mitigate packet injection risk, and lock down Bluetooth and RF devices. Cutting-edge techniques for exploiting Wi-Fi clients, WPA2, cordless phones, Bluetooth pairing, and ZigBee encryption are also covered in this fully revised guide. Build and configure your Wi-Fi attack arsenal with the best hardware and software tools Explore common weaknesses in WPA2 networks through the eyes of an attacker Leverage post-compromise remote client attacks on Windows 7 and Mac OS X Master attack tools to exploit wireless systems, including Aircrack-ng, coWPAtty, Pyrit, IPPON, FreeRADIUS-WPE, and the all new KillerBee Evaluate your threat to software update impersonation attacks on public networks Assess your threat to eavesdropping attacks on Wi-Fi, Bluetooth, ZigBee, and DECT networks using commercial and custom tools Develop advanced skills leveraging Software Defined Radio and other flexible frameworks Apply comprehensive defenses to protect your wireless devices and infrastructure

## Book Information

Series: Hacking Exposed

Paperback: 484 pages

Publisher: McGraw-Hill Osborne Media; 2 edition (July 9, 2010)

Language: English

ISBN-10: 0071666613

ISBN-13: 978-0071666619

Product Dimensions: 7.4 x 1 x 9.1 inches

Shipping Weight: 1.9 pounds (View shipping rates and policies)

Average Customer Review: 4.6 out of 5 stars [See all reviews](#) (8 customer reviews)

Best Sellers Rank: #591,440 in Books (See Top 100 in Books) #55 in [Books > Computers & Technology > Networking & Cloud Computing > Wireless Networks](#) #360 in [Books > Computers & Technology > Security & Encryption > Privacy & Online Safety](#) #402 in [Books > Computers & Technology > Internet & Social Media > Hacking](#)

## Customer Reviews

I reviewed the first edition of Hacking Exposed: Wireless (HEW) in May 2007, and offered four stars. Three years later I can confidently say that Hacking Exposed: Wireless, 2nd Ed (HEW2) is a solid five star book. After reading my 2007 review, I believe the authors took my suggestions seriously, and those of other reviewers, and produced HEW2, the best book on wireless security available. If you want to understand wireless -- and not just 802.11, but also Bluetooth, ZigBee, and DECT -- HEW2 is the book for you. Books in the Hacking Exposed (HE) series that implement the winning HE formula do the following: 1) explain a technology, including aspects you may have never heard of before; 2) explain how to break that technology; and 3) explain how to mitigate the attack, if possible. HEW2 uses this methodology and the result is a great HE book. HEW2 is also cross-platform, usually providing advice on using Windows, Linux, or Mac OS X. Furthermore, this advice is exceptionally practical and relevant. The authors not only describe what works, but also what doesn't work. I got the sense that I was speaking with a pro who was willing to share tips from the trenches, not theory copied from a Web site. Other aspects of HEW2 make it a winner. The authors post three free chapters on their Web site as background that they didn't want to include in the main text. Their Web site also contains code and other background material from the book, like pcap files. Although I am not on the front lines of wireless hacking, I got the sense that these authors do live on that edge. They explained Software Defined Radio, hardware specifically for attacking wireless devices, hardware mods, and other custom approaches that extend beyond normal wireless techniques.

From a beginner's perspective, this book is great. It offers a broad introduction to 802.11, Bluetooth, ZigBee, and DECT theory, as well as scanning, enumeration, and exploitation techniques. Additionally, the first chapter does a great job of recommending various 802.11 wireless devices. The book's teaching format is not OS-specific either, as the authors will show how to use different applications in different OSs (i.e., using Changelizer in Windows, or Kismet in Linux). What you should expect from this book is an INTRODUCTION to wireless hacking. Like I stated earlier, this book offers broad coverage of various techniques. The authors touch on different subjects, but they do not delve waste-deep into the details of them. Don't expect a WHOLE chapter dedicated to instruction on the aircrack-ng suite, but do expect enough instruction on how to start and run it. There are whole books and websites dedicated to teaching many of the programs covered in this one text. The authors do a very good job of teaching you how to defeat different forms of wireless security (SSID hiding, MAC filtering, WEP, WPA, etc.). For example, a majority of the text moves in

a very logical pattern - first, you learn how to scan and identify a target wireless network. You're then taught how to defeat MAC filtering (if it is in place). Afterwards, you move on to encryption cracking. Finally, you're taught a bit of exploitation. Don't think that reading this book will turn you into a "master Wi-Fi cracking Jedi" - this mindset will only set you up for disappointment. Think of this book as a "gateway," arming you with the knowledge needed to begin a new career/hobby/whatever.

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