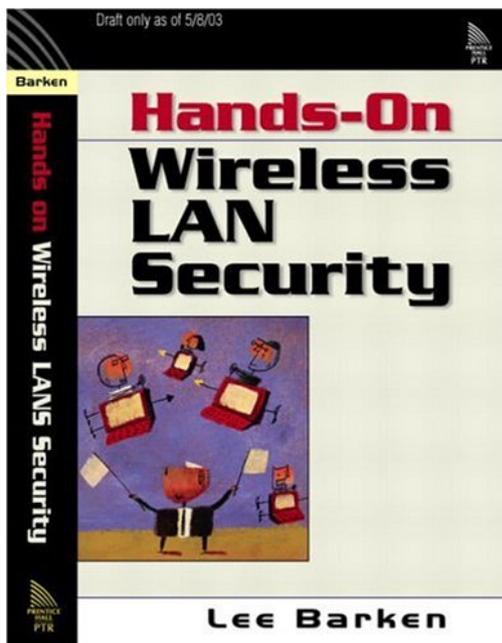


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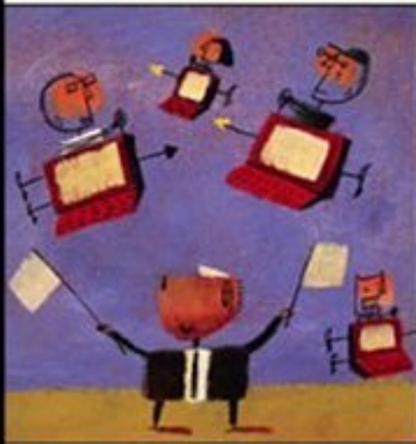


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Hands on Wireless LANs Security



Hands-On Wireless LAN Security



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From the Back Cover

Now you can have the awesome benefits of wireless LANs without falling victim to their notorious security flaws. Leading wireless security expert Lee Barken shows you practical workarounds and fixes for the vulnerabilities in today's WLANs, introduces high-security wireless protocols new to the marketplace, and offers step-by-step instructions for protecting all your wireless information, from the home to the enterprise. This is the definitive and easy-to-use WLAN security book you've been searching for--whether you're a network administrator, security specialist, manager, or home user.

Topics covered include--

- Why conventional wireless LANs are so insecure--and what you can do about it
- "Wardriving" software, equipment, and techniques: knowing your enemy
- 802.11i, WPA, TKIP, and AES: the new wireless security options
- 802.1x and EAP: enabling port-based authentication on your WLAN
- Safely connecting WLANs to wired networks
- Securing home and small office environments, one step at a time
- Accessing VPNs from wireless devices
- Integrating firewalls and wireless access points
- Improving security in public access environments
- Securing enterprise environments with 802.1x--a start-to-finish walkthrough

About the Author

About the Author

LEE BARKEN, CISSP, CCNA, MCP, CPA, has been in the IT industry since 1987. He has worked as an IT consultant and network security specialist for Ernst and Young's Information Technology Risk Management (ITRM) practice and KPMG's Risk and Advisory Services (RAS) practice. He co-founded the San Diego Wireless Users Group and writes and speaks on the topic of wireless LAN technology and security. He is the

technical editor for Mobile Business Advisor Magazine, and teaches Wireless LAN Security and Deployment classes for the University of California at San Diego (UCSD) extension.

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Introduction

How Secure is Your Wireless Network? is a book about taking the next step and securing your wireless network. Announcements by major companies backing wireless technologies are setting the stage for wide-scale deployments and the ushering in a new era of wireless freedom. Companies like Intel have announced the Centrino chipset that will integrate 802.11 functionality into their products. Dell, Gateway, IBM and others have announced initiatives to integrate wireless technology into their laptops. T-Mobile, Boingo, Wayport and dozens of others have deployed hotspots in Starbucks, Borders, and Kinkos locations as well as hotels, airports and other public venues across the world. Almost every University has deployed some kind of wireless initiatives, with high schools and elementary schools following in their footsteps. Millions of home users have discovered the joys of wireless networking. Now businesses everywhere are getting on board as well.

The bottom line is that wireless is here to stay. The integration of 802.11 into almost all new laptops and handheld devices, coupled with the explosion in availability of public hotspots has created a virtuous cycle of large-scale wireless proliferation. This invisible, yet inescapable flood of radio waves has landed squarely in our homes and businesses where it presents a whole new security challenge. How do we embrace the joys of wireless networks while we maintain an essential balance with the security needs of our organization?

This book is all about understanding the technology, recognizing the security risks and implementing a responsible and realistic game plan for safe and secure wireless communication.

Why I Wrote This Book

Although I had seen many demonstrations of wireless networks, it wasn't until the summer of 2001, that I found my true inspiration. At a large security conference, after listening to speakers talk about community wireless networks, WLAN security and other wireless topics, I came back home energized and decided it was time to put that spirit to work. A few weeks later, I started the San Diego Wireless Users Group with some friends and found my new passion in wireless technology. With the help of countless dedicated volunteers, including Alan Koebrick, John Eder, Eric Bermel, Michael Mee, and others, we hold monthly meetings with presentations on a variety of topics to share our passion for learning, meet like-minded wireless enthusiasts and help one another learn more about this wonderful technology. I've always enjoyed being a "tinkerer," eager to learn how things work. I was the kid who took apart the radio (or telephone, or video game) to check out the parts and understand how something operated. Wireless LANs were no different. Fundamentally, if you want to develop a genuine appreciation for the security risks of wireless networks, you have to roll up your sleeves, get some wireless components together and play.

I wrote this book to go beyond the "WEP is bad" headlines and dig a little deeper to understand exactly what was happening under the hood and what to do about it.

Organization

The journey of How Secure is Your Wireless Network? begins with an introduction to wireless security including a detailed review of the risks and attacks. Next, we move into a tour of the native 802.11 security solutions. Finally, we explore a variety of hands-on deployment solutions.

Here is an overview of each chapter--

Chapter 1 is a review of the general wireless landscape. We begin to ask some of the key questions that will lay a foundation for the rest of the book. In particular, we look at how security decisions are affected by factors such as deployment size, mobility needs and other security design requirements. We also review SSID broadcasts, MAC filtering, and Shared Key Authentication.

Chapter 2 starts with a stroll down memory lane as we outline some of the history of the 802.11 protocol including 802.11 (1997), Direct Sequence Spread Spectrum (DSSS), and Frequency Hopping Spread Spectrum (FHSS). We take a look at 802.11 a, b and g and some of their performance characteristics. Next, we dig deeper into the 802.11 protocol with a review of architecture topologies ("Infrastructure" and "Ad-Hoc" modes) as well as CSMA/CA, RTS/CTS and Fragmentation.

Chapter 3 is where we jump into a detailed review of WEP and its vulnerabilities. This includes a description and explanation of all known WEP attacks.

Chapter 4 describes "War Driving," including all of the hardware, software, tools and techniques so you can understand how to discover Access Points on your own. We include a discussion of War Chalking and the ethical considerations of War Driving.

Chapter 5 discusses 802.11i, WPA, TKIP and AES. In this Chapter, we dig a little deeper into WEP vulnerabilities and ways in which we can mitigate the risk with newer technologies. This includes a description of new encryption methods such as TKIP, AES and other 802.11i goodies.

Chapter 6 follows up on Chapter 5 with a detailed analysis of how 802.1x works, as well as a review of popular EAP types and guidelines to help you choose which one is best for your particular situation.

Chapter 7 focuses on transitioning between the "under the hood" theme in the first half of the book, into the "hands-on" theme of the second half of the book. In this Chapter we discuss the basic security architecture considerations when connecting the WLAN to the wired network and moving from theory to application.

Chapter 8 discusses VPNs, a comparison of various technologies and a step-by-step description of how to implement a Microsoft VPN solution.

Chapter 9 talks about securing home environments. It includes a step-by-step guide to building a Linux Embedded Appliance Firewall (LEAF), Sputnik and ReefEdge's Dolphin.

Chapter 10 revisits 802.1x and discusses security in an enterprise environment. The step-by-step instructions describe how to deploy 802.1x using Microsoft as a Supplicant and Authentication Server, with a Cisco AP as the Authenticator.

In Chapter 11 we review 802.11 in a public hotspot environment. For our step-by-step project, we describe how to build a Linux based AP using HostAP, NoCat and LEAF.

Appendix A offers an introduction to RF. Appendix B discusses various 802.11 frame types. Appendix C gives a detailed overview of community wireless networking. And finally, in Appendix D, you'll find detailed instructions, with illustrations, on how to build a working wireless antenna out of a cylindrical potato-chip can.

Thank you for choosing this book.

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