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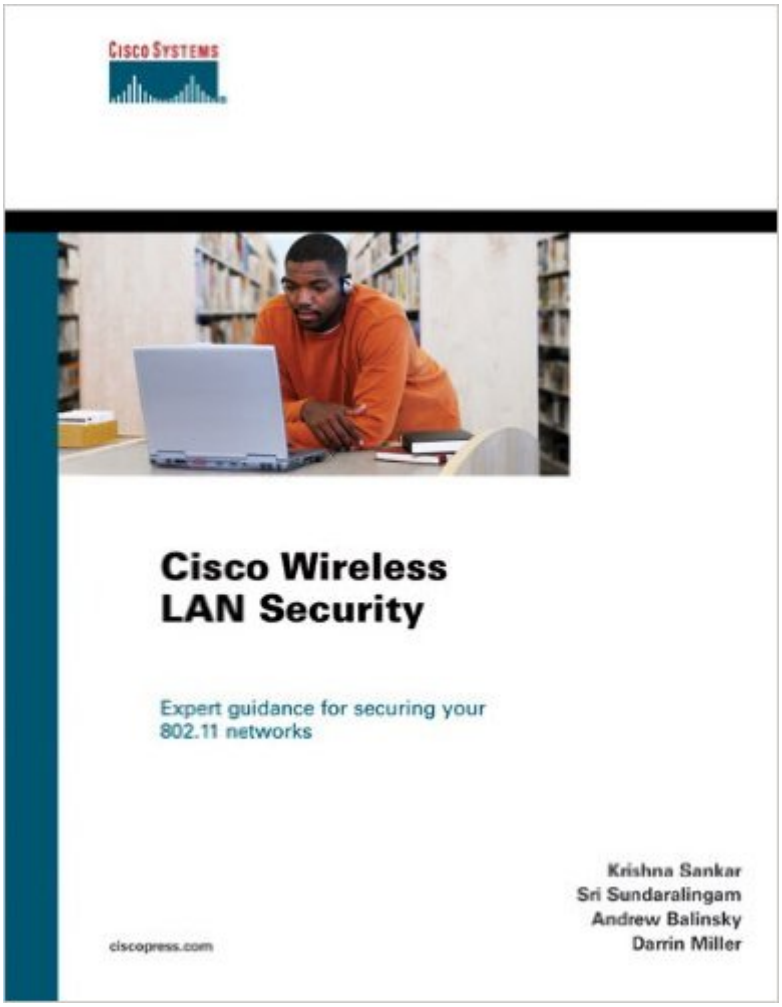
Cisco Wireless LAN Security



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Synopsis

Expert guidance for securing your 802.11 networks Learn best practices for securely managing, operating, and scaling WLANs Comprehend the security-related technological underpinnings of WLANs Explore new security protocols in 802.11i and WPA and learn how they prevent attacks Review centralized deployment models for wired/wireless integration Deepen your knowledge of defense by understanding the tools that attackers use to perform reconnaissance and to attack authentication and encryption mechanisms Understand how to design secure WLANs to support enterprise applications with the new standards and practices detailed in this book Reference the next generation authentication standards and protocols Find out about mobility, hotspots, and campus wireless networks Grasp Open Authentication, MAC-based authentication, shared key authentication, EAP authentication protocols, WEP, WPA, and 802.11i Cisco Wireless LAN Security is an in-depth guide to wireless LAN technology and security, introducing the key aspects of 802.11 security by illustrating major wireless LAN (WLAN) standards that can protect the entire network. Because a WLAN is less effective as an isolated piece of the network, this book emphasizes how to effectively integrate WLAN devices into the wired network while maintaining maximum security. Cisco Wireless LAN Security covers the spectrum of WLAN security, including protocols and specifications, vulnerabilities and threats, and, especially, deployment patterns and design guidelines. With a unique combination of theory and practice, this book addresses fundamental wireless concepts, such as WEP, and innovations, such as EAP, switching, and management. Each chapter includes detailed illustrations, checklists, design templates, and other resources. You will also find generic wireless deployment patterns based on real-world customer installations and functional examples of architecture, design, and best practices. Whether you currently design, configure, implement, and maintain WLANs or simply want to explore wireless security issues, Cisco Wireless LAN Security has everything you need to understand how to create a seamlessly secure, impenetrable 802.11 network. This book is part of the Networking Technology Series from Cisco PressÂ¿ which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers.

Book Information

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Customer Reviews

The title is definitely in alignment with the content. A basic-to-intermediate discussion of security, as it applies to wireless LANs, is presented in this book. When I completed the book, I certainly had a much better understanding of wireless LAN security fundamentals - both generically and with a Cisco slant. The book has contributions from 4 persons, which may explain the healthy perspective given to the subject of wireless LAN security.I know the number of chapters of a book can’t always tell much of the story, but in the case of the 13 chapters contained in this book - spread out over almost 400 pages - I immediately felt that no single chapter would contain an amount of information that may be overwhelming as far as being able to retain my focus. The 2 final chapters comprised the greatest number of pages for any single chapter, and rightfully so. It would have been a compromise of the completion of the overall material to have limited the number of pages involving configuration examples and deployment scenarios.I really appreciated chapter 2. This chapter was titled "Basic Security Mechanics and Mechanisms", and the content was just as the title suggested. The subject matter discussed security without any connection to wireless LANs. With "Security" being a complete topic all by itself, it was beneficial to have a little introduction to some generic security fundamentals before blending this topic with wireless networking. If the subject of computer/network security is not your forte, then you’ll be served well with this brief exposure.Chapters 3 and 4 were a welcomed addition because they provided a "warm-up" to wireless networking.

OK, the title does indeed tell a great deal about this particular book: However, the "Cisco" tag may be misleading. Cisco WLAN Equipment and even some terminology is used throughout this text. With a Vendor’s badge on the cover and name in the title it prepared me for an extremely biased volume of configurations and presentations on Cisco specific technology. This text greatly exceeded

a book with that good but narrower approach. A great plus of this particular text is the detail it provides on technology and design criteria which is applicable to WLAN security regardless of technology vendor. It has taken the place of my best vendor agnostic text as the first reference I grab.Kirshna, Sri, Andrew, and Darrin have delivered the subtitle "Expert guidance for securing your 802.11 networks" in 13 chapters. Vast majority of their 395 pages of text and diagrams are not only applicable but extremely valuable to anyone charged with designing, implementing, and administrating WLANs in today's security conscious environment.Guidance on secure WLAN design is far more than delivery of some cookie cutter equipment configs. The authors obviously recognized this and exceeded this reader's expectation. Their guidance was achieved by delivering sufficient detail on all the technologies and interdependencies that are required to deliver WLAN Security. They did not pave a single configuration which would have had too narrow an audience. They provided the foundation which enables, even seasoned WLAN engineers, to deliver for a wide variety of business requirements.My copy has loads of dog-eared pages. Those pages mark specific paragraphs which have been very valuable in customer and support organization presentations.

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