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Wi-Fi (802.11) Network Handbook (Osborne Networking ...

176 802.11 (Wi-Fi) Networking Handbook A s discussed in Chapter 1, early forms of wireless LANs have been available since the mid-1980s. Standardized and interoperable WLANs have been shipping since 1997, and Wi-Fi products have been available since 1999. Despite this and the more than \$1 billion spent worldwide annually on 802.11 products at this

CHAPTER 9

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Wi-Fi handbook:building 802.11b wireless networks / Frank Ohrtman, Konrad Roeder. p. cm. Includes Index ISBN 0-07-141251-4 (alk.paper) 1.IEEE 802.11 (Standard) 2.Internet service providers—Standards. 3.Telecommunication—Technological innovations—United States. I.Roeder,Konrad. II.Title TK5105.5668.036 2003

Wi-Fi Handbook

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The alternating signal encodes zeros and ones on the radio waves. The 802.11b specification allows for the wireless transmission of approximately 11 Mbps of raw data at distances up to a few hundred feet over the 2.4 GHz unlicensed band. The distance depends on impediments, materials, and line of sight.

Chapter 2: How Does 802.11 Work? | Wi-Fi Handbook ...

Your One-Stop 802.11 Wireless LAN Resource Get briefed on the intricacies of wireless LANs, and learn why 802.11 is best-suited among the WLAN technologies for most wireless applications. With a comprehensive approach that's easy to understand, this resource covers the entire integration of wireless LANs into an overall network architecture, from equipment and component selection, through design and deployment.

Wi-Fi (802.11) Network Handbook: Neil P. Reid, Ron Seide ...

To help clarify the many Wi-Fi standards, here ' s an update on these physical-layer standards within 802.11, as well as standards still in the works and the new naming scheme that includes Wi-Fi 6.

802.11: Wi-Fi standards and speeds explained | Network World

Jim is the author of more than a dozen books on mobile and wireless topics, including Designing and Deploying 802.11n Wireless Networks (Cisco Press), Implementing 802.1X Security Solutions (Wiley), Wireless Networking Handbook (New Riders), and Network Re-engineering (McGraw-Hill). He has been an active participant in IEEE standards organizations, such as the IEEE 802.11 Working Group and the Wi-Fi Alliance.

Designing and Deploying 802.11 Wireless Networks: A ...

Break free with the wireless networking capabilities of 802.11. This comprehensive and well-written guide provides hardware advice, radio frequency

Wi-Fi (802.11) Network Handbook - Booming Trends

IEEE 802.11 working group standards like 802.11n and 802.11j are extensions or offshoots of Wi-Fi technology that each serve a very specific purpose. Bluetooth is an alternative wireless network technology that followed a different development path than the 802.11 family.

802.11 WiFi Standards Explained - Lifewire

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Handbook:AMD64/Networking/Wireless; AC1200 Wireless Adapters; Iproute2 — a tool developed to unify network interface configuration, routing, and tunneling. Iwlwifi — the wireless driver for Intel's current wireless chips. Qualcomm Atheros QCA6174 — a 802.11ac Wireless Network Adapter which is used in some laptops. External resources

WiFi - Gentoo Wiki

The IEEE 802.11 Handbook: A Designer ' s Companion, Second Edition is for the system network architects, hardware engineers and software engineers at the heart of this second stage in the evolution of 802.11 wireless LANs and for those designers that will take 802.11 to the next stage.

IEEE 802.11 Handbook: A Designer's Companion, 2nd Edition

Author: By Reid, Neil P. Wi-Fi (802.11) Network Handbook. Aims to help you break free with the wireless networking capabilities of 802.11. It also aims to provide clarity on connectivity issues for laptop computers, personal digital assistants (PDAs), and peripherals.

802.11 Wi-Fi Network Handbook by Ron Seide, Neil P. Reid ...

Most wireless networks are based on the IEEE © 802.11 standards. A basic wireless network consists of multiple stations communicating with radios that broadcast in either the 2.4GHz or 5GHz band, though this varies according to the locale and is also changing to enable communication in the 2.3GHz and 4.9GHz ranges.

As

we all know by now, wireless networks offer many advantages over fixed (or wired) networks. Foremost on that list is mobility, since going wireless frees you from the tether of an Ethernet cable at a desk. But that's just the tip of the cable-free iceberg. Wireless networks are also more flexible, faster and easier for you to use, and more affordable to deploy and maintain.The de facto standard for wireless networking is the 802.11 protocol, which includes Wi-Fi (the wireless standard known as 802.11b) and its faster cousin, 802.11g. With easy-to-install 802.11 network hardware available everywhere you turn, the choice seems simple, and many people dive into wireless computing with less thought and planning than they'd give to a wired network. But it's wise to be familiar with both the capabilities and risks associated with the 802.11 protocols. And 802.11 Wireless Networks: The Definitive Guide, 2nd Edition is the perfect place to start.This updated edition covers everything you'll ever need to know about wireless technology. Designed with the system administrator or serious home user in mind, it's a no-nonsense guide for setting up 802.11 on Windows and Linux. Among the wide range of topics covered are discussions on: deployment considerations network monitoring and performance tuning wireless security issues how to use and select access points network monitoring essentials wireless card configuration security issues unique to wireless networks With wireless technology, the advantages to its users are indeed plentiful. Companies no longer have to deal with the hassle and expense of wiring buildings, and households with several computers can avoid fights over who's online. And now, with 802.11 Wireless Networks: The Definitive Guide, 2nd Edition, you can integrate wireless technology into your current infrastructure with the utmost confidence.

Written for network engineers by highly experienced wireless and Ethernet experts, this title is one of the first to provide the know-how for enterprise implementations.

With transfer speeds up to 11 Mbps the 802.11 wireless network standard is set to revolutionize wireless LANs. Matthew Gast's definitive guide to the standard is aimed at administrators, architects and security professionals.

The next frontier for wireless LANs is 802.11ac, a standard that increases throughput beyond one gigabit per second. This concise guide provides in-depth information to help you plan for 802.11ac, with technical details on design, network operations, deployment, and monitoring. Author Matthew Gast—an industry expert who led the development of 802.11-2012 and security task groups at the Wi-Fi Alliance—explains how 802.11ac will not only increase the speed of your network, but its capacity as well. Whether you need to serve more clients with your current level of throughput, or serve your existing client load with higher throughput, 802.11ac is the solution. This book gets you started. Understand how the 802.11ac protocol works to improve the speed and capacity of a wireless LAN Explore how beamforming increases speed capacity by improving link margin, and lays the foundation for multi-user MIMO Learn how multi-user MIMO increases capacity by enabling an AP to send data to multiple clients simultaneously Plan when and how to upgrade your network to 802.11ac by evaluating client devices, applications, and network connections

The first generation 802.11 wireless market, once struggling to expand, has spread from largely vertical applications such as healthcare, point of sale, and inventory management to become much more broad as a general networking technology being deployed in offices, schools, hotel guest rooms, airport departure areas, airplane cabins, entertainment venues, coffee shops, restaurants, and homes. This has led to the tremendous growth of new sources of IEEE 802.11 devices. IEEE 802.11 equipment is now moving into its second stage, where the wireless LAN is being treated as a large wireless communication system. As a system, there is more to consider than simply the communication over the air between a single access point and the associated mobile devices. This has lead to innovative changes in the equipment that makes up a wireless LAN. The IEEE 802.11 Handbook: A Designer ' s Companion, Second Edition is for the system network architects, hardware engineers and software engineers at the heart of this second stage in the evolution of 802.11 wireless LANs and for those designers that will take 802.11 to the next stage.

Aims to help you break free with the wireless networking capabilities of 802.11. This guide provides hardware advice, radio frequency fundamentals, performance tips, architecture requirements, and more. It also aims to provide clarity on connectivity issues for laptop computers, personal digital assistants (PDAs), and peripherals.

Designing and Deploying 802.11 Wireless Networks Second Edition A Practical Guide to Implementing 802.11n and 802.11ac Wireless Networks For Enterprise-Based Applications Plan, deploy, and operate high-performance 802.11ac and 802.11n wireless networks The new 802.11ac standard enables WLANs to deliver significantly higher performance. Network equipment manufacturers have refocused on 802.11ac- and 802.11n-compliant solutions, rapidly moving older versions of 802.11 toward "legacy" status. Now, there ' s a complete guide to planning, designing, installing, testing, and supporting 802.11ac and 802.11n wireless networks in any environment, for virtually any application. Jim Geier offers practical methods, tips, and recommendations that draw on his decades of experience deploying wireless solutions and shaping wireless standards. He carefully introduces 802.11ac ' s fundamentally different design, site survey, implementation, and network configuration techniques, helping you maximize performance and avoid pitfalls. Geier organizes each phase of WLAN deployment into clearly defined steps, making the entire planning and deployment process easy to understand and execute. He illuminates key concepts and methods through realistic case studies based on current Cisco products, while offering tips and techniques you can use with any vendor ' s equipment. To build your skills with key tasks, you ' ll find several hands-on exercises relying on free or inexpensive tools. Whether you ' re deploying an entirely new wireless network or migrating from older equipment, this guide contains all the expert knowledge you ' ll need to succeed. Jim Geier has 30 years of experience planning, designing, analyzing and implementing communications, wireless, and mobile systems. Geier is founder and Principal Consultant of Wireless-Nets, Ltd., providing wireless analysis and design services to product manufacturers. He is also president, CEO, and co-founder of Health Grade Networks, providing wireless network solutions to hospitals, airports, and manufacturing facilities. His books include the first edition of Designing and Deploying 802.11n Wireless Networks (Cisco Press); as well as Implementing 802.1X Security Solutions and Wireless Networking Handbook. Geier has been active in the IEEE 802.11 Working Group and Wi-Fi Alliance; has chaired the IEEE Computer Society (Dayton Section) and various conferences; and served as expert witness in patent litigation related to wireless and cellular technologies. Review key 802.11 concepts, applications, markets, and technologies Compare ad hoc, mesh, and infrastructure WLANs and their components Consider the impact of radio signal interference, security vulnerabilities, multipath propagation, roaming, and battery limitations Thoroughly understand today ' s 802.11 standards in the context of actual network deployment and support Plan your deployment: scoping, staffing, schedules, budgets, risks, feasibility analysis, and requirements Architect access networks and distribution system for maximum reliability, manageability, and performance Make the right tradeoffs and decisions to optimize range, performance, and roaming Secure WLANs via encryption, authentication, rogue AP detection, RF shielding, and policies Master design and site survey tools and methods for planning 802.11ac networks and migrations Efficiently install and test any 802.11ac or 802.11n wireless network Establish specialized support for wireless networks, including help desk operations Systematically troubleshoot connectivity, performance, and roaming issues Design efficient mesh networks and city-wide deployments

Make informed decisions about planning and installing 802.11 'Wi-Fi' wireless networks. This book helps you tackle the challenge, whether installing Wi-Fi within an existing corporate network or setting up a wireless network from scratch in any business

This book describes new approaches to wireless security enabled by the recent development of new core technologies for Wi-Fi/802.11. It shows how the new approaches work and how they should be applied for maximum effect. For system administrators, product designers, or advanced home users.

'The WiFi Networking Book: WLAN Standards: IEEE 802.11 bgn, 802.11n, 802.11ac and 802.11ax' starts from the ground up for a new user and does a gradual progression into the technical details around IEEE 802.11 Wireless Lan communications standard. The book details the 'legacy' 802.11 stack (a/b/g) and also goes into the latest wave of 802.11 standards - 802.11n, ac and ax. Introduction A wireless LAN (WLAN) is a data transmission system designed to provide location-independent network access between computing devices by using radio waves rather than a cable infrastructure . In the corporate enterprise, wireless LANs are usually implemented as the final link between the existing wired network and a group of client computers, giving these users wireless access to the full resources and services of the corporate network across a building or campus setting. The widespread acceptance of WLANs depends on industry standardization to ensure product compatibility and reliability among the various manufacturers. The 802.11 specification as a standard for wireless LANs was ratified by the Institute of Electrical and Electronics Engineers (IEEE) in the year 1997. This version of 802.11 provides for 1 Mbps and 2 Mbps data rates and a set of fundamental signaling methods and other services. Like all IEEE 802 standards, the 802.11 standards focus on the bottom two levels the ISO model, the physical layer and link layer. Any LAN application, network operating system, protocol, including TCP/IP and Novell NetWare, will run on an 802.11-compliant WLAN as easily as they run over Ethernet. What is inside Overview on Wireless Technologies, Usage Scenarios and related Taxonomy Wireless LAN and 802.11 WiFi: Architecture, 802.11 Physical Layer, 802.11 Data Link Layer, 802.11 Security 802.11 Standards: 802.11b, 802.11a, 802.11g, 802.11n MIMO, 802.11ac - Wave 1 and Wave 2, 802.11ax WiMax Networks: Forum, WiMax Protocol, WiMax Architecture

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