Designing and Deploying 802.11n Wireless Networks

Gain a practical understanding of the underlying concepts of the 802.11n standard and the methodologies for completing a successful wireless network installation

Jim Geier

Designing And Deploying 802 11n Wireless Networks

Jeff Kennington,Eli Olinick,Dinesh Rajan

Designing And Deploying 802 11n Wireless Networks:

Designing and Deploying 802.11n Wireless Networks Jim Geier,2010-06-01 Gain a practical understanding of the underlying concepts of the 802 11n standard and the methodologies for completing a successful wireless network installation Practical start to finish guidance for successful deployment of 802 11n wireless LANs With the ratification of the 802 11n wireless LAN standard thousands of companies are moving rapidly toward implementation However 802 11n is very different from legacy 802 11a 802 11b and 802 11g wireless standards and successful deployment requires new knowledge and techniques In this book leading wireless expert Jim Geier systematically presents all the information and guidance that network architects engineers administrators and managers need to maximize the performance and business value of new 802 11n networks Drawing on extensive experience with real world 802 11n deployments Geier guides you through the entire project lifecycle planning design installation testing monitoring and support Each phase of wireless LAN deployment is organized into clearly defined steps and multiple case studies and hands on exercises show how to apply each technique You ll find practical guidance for deploying in enterprises without existing wireless infrastructure as well as migrating from legacy 802 11a 802 11b or 802 11g networks For convenient reference Geier also provides an extensive up to date wireless networking glossary Understanding 802 11n MAC physical layer and related standards Designing 802 11n wireless networks for diverse scenarios considering architecture range performance roaming and RF issues Migrating from 802 11a 802 11b and 802 11g wireless networks Choosing the right tools and equipment and using them effectively Planning effectively scoping projects creating work breakdown structures organizing teams schedules and budgets defining requirements and more Securing WLANs via encryption authentication rogue access point detection RF shielding and polices Performing site surveys and identifying optimum access point locations Installing and configuring wireless LANs planning staging deployment documentation and more Systematic testing to improve signal coverage performance and security Managing wireless LANs help desk support network monitoring maintenance engineering configuration management security tools and more Troubleshooting 802 11n networks identifying issues with connectivity performance and more **Designing and Deploying 802.11 Wireless Networks** Jim Geier,2015-04-29 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 distribut **Designing and Deploying 802.11n Wireless Networks** James T. Geier,2010 **Designing and Deploying 802.11 Wireless Networks** Jim Geier,2015 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 cell **Fundamentals of Communications and Networking** Michael G. Solomon,David Kim,2021-01-15 Today s networks are required to support an increasing array of real time communication methods Video chat and live resources put demands on networks that were previously unimagined Written to be accessible to all Fundamentals of Communications and Networking Third Edition helps readers better understand today s networks and the way they support the evolving requirements of different types of organizations While displaying technical depth this new edition presents an evolutionary perspective of data networking from the early years to the local area networking boom to advanced IP data networks that support multimedia and real time applications The Third Edition is loaded with real world examples network designs and network scenarios that provide the reader with a wealth of data networking information and practical implementation tips Key Features of the third Edition Introduces network basics by describing how networks work Discusses how networks support the increasing demands of advanced communications Illustrates how to map the right technology to an organization s needs and business goals Outlines how businesses use networks to solve business problems both technically and operationally **Computer Security Handbook, Set** Seymour Bosworth,M. E. Kabay,Eric Whyne,2014-03-24 Computer security touches every part of our daily lives from our computers and connected devices to the wireless signals around us Breaches have real and immediate financial privacy and safety consequences This handbook has compiled advice from top professionals working in the real world about how to minimize the possibility of computer security breaches in your systems Written for professionals and college students it provides comprehensive best guidance about how to minimize hacking fraud human error the effects of natural disasters and more This essential and highly regarded reference maintains timeless lessons and is fully revised and updated with current information on security issues for social networks cloud computing virtualization and more

Computer Networking Problems and Solutions Russ White,Ethan Banks,2017-12-06 Master Modern Networking by Understanding and Solving Real Problems Computer Networking Problems and Solutions offers a new approach to understanding networking that not only illuminates current systems but prepares readers for whatever comes next Its

problem solving approach reveals why modern computer networks and protocols are designed as they are by explaining the problems any protocol or system must overcome considering common solutions and showing how those solutions have been implemented in new and mature protocols Part I considers data transport the data plane Part II covers protocols used to discover and use topology and reachability information the control plane Part III considers several common network designs and architectures including data center fabrics MPLS cores and modern Software Defined Wide Area Networks SD WAN Principles that underlie technologies such as Software Defined Networks SDNs are considered throughout as solutions to problems faced by all networking technologies This guide is ideal for beginning network engineers students of computer networking and experienced engineers seeking a deeper understanding of the technologies they use every day Whatever your background this book will help you quickly recognize problems and solutions that constantly recur and apply this knowledge to new technologies and environments Coverage Includes Data and networking transport Lower and higher level transports and interlayer discovery Packet switching Quality of Service QoS Virtualized networks and services Network topology discovery Unicast loop free routing Reacting to topology changes Distance vector control planes link state and path vector control Control plane policies and centralization Failure domains Securing networks and transport Network design patterns Redundancy and resiliency Troubleshooting Network disaggregation Automating network management Cloud computing Networking the Internet of Things IoT Emerging trends and technologies **Wireless Network Design** Jeff Kennington,Eli Olinick,Dinesh Rajan,2010-11-10 This book surveys state of the art optimization modeling for design analysis and management of wireless networks such as cellular and wireless local area networks LANs and the services they deliver The past two decades have seen a tremendous growth in the deployment and use of wireless networks The current generation wireless systems can provide mobile users with high speed data services at rates substantially higher than those of the previous generation As a result the demand for mobile information services with high reliability fast response times and ubiquitous connectivity continues to increase rapidly The optimization of system performance has become critically important both in terms of practical utility and commercial viability and presents a rich area for research In the editors previous work on traditional wired networks we have observed that designing low cost survivable telecommunication networks involves extremely complicated processes Commercial products available to help with this task typically have been based on simulation and or proprietary heuristics As demonstrated in this book however mathematical programming deserves a prominent place in the designer s toolkit Convenient modeling languages and powerful optimization solvers have greatly facilitated the implementation of mathematical programming theory into the practice of commercial network design These points are equally relevant and applicable in today s world of wireless network technology and design But there are new issues as well many wireless network design decisions such as routing and facility element location must be dealt with in innovative ways that are unique and distinct from wired fiber optic networks The book specifically treats the recent research

and the use of modeling languages and network optimization techniques that are playing particularly important and distinctive roles in the wireless domain **Controller-Based Wireless LAN Fundamentals** Jeff Smith,Jake Woodhams,Robert Marg,2010-10-29 Controller Based Wireless LAN Fundamentals An end to end reference guide to design deploy manage and secure 802 11 wireless networks As wired networks are increasingly replaced with 802 11n wireless connections enterprise users are shifting to centralized next generation architectures built around Wireless LAN Controllers WLC These networks will increasingly run business critical voice data and video applications that once required wired Ethernet In Controller Based Wireless LAN Fundamentals three senior Cisco wireless experts bring together all the practical and conceptual knowledge professionals need to confidently design configure deploy manage and troubleshoot 802 11n networks with Cisco Unified Wireless Network CUWN technologies The authors first introduce the core principles components and advantages of next generation wireless networks built with Cisco offerings Drawing on their pioneering experience the authors present tips insights and best practices for network design and implementation as well as detailed configuration examples Next they illuminate key technologies ranging from WLCs to Lightweight Access Point Protocol LWAPP and Control and Provisioning of Wireless Access Points CAPWAP Fixed Mobile Convergence to WiFi Voice They also show how to take advantage of the CUWN s end to end security automatic configuration self healing and integrated management capabilities This book serves as a practical hands on reference for all network administrators designers and engineers through the entire project lifecycle and an authoritative learning tool for new wireless certification programs This is the only book that Fully covers the principles and components of next generation wireless networks built with Cisco WLCs and Cisco 802 11n AP Brings together real world tips insights and best practices for designing and implementing next generation wireless networks Presents start to finish configuration examples for common deployment scenarios Reflects the extensive first hand experience of Cisco experts Gain an operational and design level understanding of WLAN Controller WLC architectures related technologies and the problems they solve Understand 802 11n MIMO and protocols developed to support WLC architecture Use Cisco technologies to enhance wireless network reliability resilience and scalability while reducing operating expenses Safeguard your assets using Cisco Unified Wireless Network s advanced security features Design wireless networks capable of serving as an enterprise s primary or only access network and supporting advanced mobility services Utilize Cisco Wireless Control System WCS to plan deploy monitor troubleshoot and report on wireless networks throughout their lifecycles Configure Cisco wireless LANs for multicasting Quickly troubleshoot problems with Cisco controller based wireless LANs This book is part of the Cisco Press Fundamentals Series Books in this series introduce networking professionals to new networking technologies covering network topologies sample deployment concepts protocols and management techniques Category Wireless Covers Cisco Controller Based Wireless LANs   Security, Design, and Architecture for Broadband and Wireless Network Technologies Chilamkurti, Naveen,2013-04-30 While wireless

technologies continue to provide an array of new challenges and multi domain applications for business processes and solutions there still remains to be a comprehensive understanding of its various dimensions and environments Security Design and Architecture for Broadband and Wireless Network Technologies provides a discussion on the latest research achievements in wireless networks and broadband technology Highlighting new trends applications developments and standards this book is essential for next generation researchers and practitioners in the ICT field **Quantum Computing:An Environment for Intelligent Large Scale Real Application** Aboul Ella Hassanien,Mohamed Elhoseny,Janusz Kacprzyk,2017-10-13 This book highlights practical quantum key distribution systems and research on the implementations of next generation quantum communication as well as photonic quantum device technologies It discusses how the advances in quantum computing and quantum physics have allowed the building launching and deploying of space exploration systems that are capable of more and more as they become smaller and lighter It also presents theoretical and experimental research on the potential and limitations of secure communication and computation with quantum devices and explores how security can be preserved in the presence of a quantum computer and how to achieve long distance quantum communication The development of a real quantum computer is still in the early stages but a number of research groups have investigated the theoretical possibilities of such computers **Computerworld** ,2004-12-06 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network **Deploying License-free Wireless Wide-area Networks** Jack Unger,2003 Best practices for planning and deployment of broadband WWANs Learn insider tips from an experienced wireless industry leader Understand the principles that underlie the operation of all wireless systems Learn how to provide profitable and reliable wireless Internet access Select the most effective equipment and antenna systems for your area Avoid common pitfalls encountered by new wireless network operators Minimize the effects of noise and interference on your network Enjoy the satisfaction of providing wireless Internet access to your community Practice the business principles used by successful wireless ISPs WISPs Use 802 11a 802 11b and 802 11g equipment more successfully in your own home office or outdoor environment Choose the right network architecture for your wireless network Conduct physical site surveys and radio frequency RF site surveys License free broadband wireless wide area networks WWANs provide fast deployment of low cost high speed last mile wireless Internet access License free wireless technology delivers these benefits without requiring the use of products or services provided by local telephone or cable companies WWANs enable Internet service providers ISPs and corporate IT managers to deploy their own cost efficient broadband networks that deliver high speed access for buildings and areas where traditional wired connectivity is either completely unavailable or is cost prohibitive Deploying License Free Wireless Wide Area Networksis the first book that provides complete real world start to finish design

installation operation and support information for wireless ISPs and other organizations deploying outdoor wireless WANs including coverage of 802 11a 802 11b 802 11g and proprietary protocol networks This vendor neutral book covers all brands of broadband wireless equipment and explains the principles upon which all wireless equipment is based Inside you ll find step by step instructions and crystal clear explanations that walk you through initial planning stages and onto full wireless network operation End of chapter review questions reinforce important concepts Whether you re an IT director ISP engineer network architect or field technician Deploying License Free Wireless Wide Area Networksis your essential reference With practical in depth coverage of the real world challenges of outdoor license free wireless WAN deployment this book provides a comprehensive vendor neutral guide to successful wireless network design and operation *Security in Wireless Mesh Networks* Yan Zhang,Jun Zheng,Honglin Hu,2008-08-21 Wireless mesh networks WMN encompass a new area of technology set to play an important role in the next generation wireless mobile networks WMN is characterized by dynamic self organization self configuration and self healing to enable flexible integration quick deployment easy maintenance low costs high scalability and reliable services **Introduction to Wireless Sensor Networks** Anna Forster,2016-07-12 Explores real world wireless sensor network development deployment and applications Presents state of the art protocols and algorithms Includes end of chapter summaries exercises and references For students there are hardware overviews reading links programming examples and tests available at website For Instructors there are PowerPoint slides and solutions available at website Middleware for Network Eccentric and Mobile Applications Benoît Garbinato,Hugo Miranda,Luís Rodrigues,2009-02-07 Middleware is a critical foundation needed to leverage the development of a wide range of mobile and ubiquitous applications Intrinsic challenges when building such middleware require the combination of expertise from areas like distributed systems networking software engineering and application development This textbook provides a comprehensive introduction to the main fundamental problems technologies paradigms and solutions of concern to developers of middleware for mobile environments The contributions are grouped into four parts on networking and programming issues communication models middleware issues and application issues Each chapter is structured as a self contained tutorial presenting an overview of a specific topic and the state of the art solutions for the related problems In addition the book also includes an authoritative reference list The material has been successfully used in several thematic training schools organized by the ESF MiNEMA Middleware for Network Eccentric and Mobile Applications program and the book s organization and presentation is ideal for an advanced course on middleware *Resource Management in Wireless Networking* Mihaela Cardei,Ionut Cardei,Ding-Zhu Du,2006-07-06 Following the pattern of the Internet growth in popularity started in the early 1990s the current unprecedented expansion of wireless technology promises to have an even greater effect on how people communicate and interact with considerable socio economic impact all over the world The driving force behind this growth is the remarkable progress in component miniaturization integration

and also devel ments in waveforms coding and communication protocols Besides established infrastructurebased wireless networks cellular WLAN sat lite ad hoc wireless networks emerge as a new platform for distributed applications and for personal communication in scenarios where deploying infrastructure is not feasible In ad hoc wireless networks each node is capable of forwarding packets on behalf of other nodes so that multi hop paths provide end to end connectivity The increased flexibility and mobility of ad hoc wireless networks are favored for appli tions in law enforcement homeland defense and military In a world where wireless networks become increasingly interoperable with each other and with the high speed wired Internet personal communication systems will transform into universal terminals with instant access to variate content and able of handle demanding tasks such as multimedia and real time video With users roaming between networks and with wide variation in wireless link quality even in a single domain the communications terminal must continue to provide a level of Quality of Service that is acceptable to the user and conforms to a contracted Service Level Agreement *Fixed Broadband Wireless System Design* Harry R. Anderson,2003-03-14 Fixed broadband networks can provide far higher data rates and capacity than the currently envisioned 3G and 4G mobile cellular systems Achieving higher data rates is due to the unique technical properties of fixed systems in particular the use of high gain and adaptive antennas wide frequency bands dynamic data rate and channel resource allocation and advanced multiple access techniques Fixed Broadband Wireless System Design is a comprehensive presentation of the engineering principles advanced engineering techniques and practical design methods for planning and deploying fixed wireless systems including Point to point LOS and NLOS network design Point to point microwave link design including active and passive repeaters Consecutive point and mesh network planning Advanced empirical and physical propagation modeling including ray tracing Detailed microwave fading models for multipath and rain NLOS indoor and outdoor propagation and fading models Propagation environment models including terrain morphology buildings and atmospheric effects Novel mixed application packet traffic modeling for dimensioning network capacity Narrow beam wide beam and adaptive smart antennas MIMO systems and space time coding Channel planning including fixed and dynamic channel assignment and dynamic packet assignment IEEE 802 11b and 802 11a WLAN system design Free space optic FSO link design At present there are no titles available that provide such a concise presentation of the wide variety of systems frequency bands multiple access techniques and other factors that distinguish fixed wireless systems from mobile wireless systems Fixed Broadband Wireless System Design is essential reading for design system and RF engineers involved in the design and deployment of fixed broadband wireless systems fixed wireless equipment vendors and academics and postgraduate students in the field Ultra-wideband Positioning Systems Zafer Sahinoglu,Sinan Gezici,Ismail Güvenc,2008-09-04 Position estimation of wireless devices has many applications in short range networks Ultra wideband UWB signals provide accurate positioning capabilities that can be harnessed in wireless systems to realise these applications This text provides detailed coverage of UWB positioning systems offering comprehensive treatment of signal and

receiver design for ranging range estimation techniques theoretical performance bounds ranging algorithms and protocols Beginning with a discussion of the potential applications of wireless positioning and investigating UWB signals for such applications later chapters establish a signal processing framework for analysing UWB positioning and ranging systems The recent IEEE 802 15 4a standard related to UWB is also studied in detail Each chapter contains examples problems and Matlab scripts to help readers grasp key concepts This is an ideal text for graduate students and researchers in electrical and computer engineering and practitioners in the communications industry particularly those in wireless communications Further resources are available at www cambridge org 9780521873093 *Voice Over 802.11* Frank Ohrtman,2004 This complete guide to planning deploying and managing Wi Fi telephone networks explains the economics of Wi Fi so network engineers can show the return on investment from implementing Wi Fi The book also examines key Wi Fi technology issues

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