Designing and Deploying 802.11n Wireless Networks (Networking Technology)

Jim Geier

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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

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