



IPv6 Essentials

Silvia Hagen

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IPv6 Essentials, Second Edition provides a succinct, in-depth tour of all the new features and functions in IPv6. It guides you through everything you need to know to get started, including how to configure IPv6 on hosts and routers and which applications currently support IPv6. The new IPv6 protocols offers extended address space, scalability, improved support for security, real-time traffic support, and auto-configuration so that even a novice user can connect a machine to the Internet. Aimed at system and network administrators, engineers, network designers, and IT managers, this book will help you understand, plan for, design, and integrate IPv6 into your current IPv4 infrastructure.

Beginning with a short history of IPv6, author Silvia Hagen provides an overview of new functionality and discusses why we need IPv6. Hagen also shares exhaustive discussions of the new IPv6 header format and Extension Headers, IPv6 address and ICMPv6 message format, Security, QoS, Mobility and, last but not least, offers a Quick Start Guide for different operating systems. *IPv6 Essentials*, Second Edition also covers:

- In-depth technical guide to IPv6
- Mechanisms and Case Studies that show how to integrate IPv6 into your network without interruption of IPv4 services
- Routing protocols and upper layer protocols
- Security in IPv6: concepts and requirements. Includes the IPSEC framework and security elements available for authentication and encryption
- Quality of Service: covers the elements available for QoS in IPv6 and how they can be implemented
- Detailed discussion of DHCPv6 and Mobile IPv6
- Discussion of migration cost and business case
- Getting started on different operating systems: Sun Solaris, Linux, BSD, Windows XP, and Cisco routers

Whether you're ready to start implementing IPv6 today or are planning your strategy for the future, *IPv6 Essentials*, Second Edition will provide the solid foundation you need to get started.

"Silvia's look at IPv6 is always refreshing as she translates complex technology features into business drivers and genuine end-user benefits to enable building new business concepts based on end to end models." Latif Laidid, President IPv6 Forum, Chair EU IPv6 Task Force

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