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MPLS-Enabled Applications: Emerging Developments and New Technologies

Instruction Manual - Third Edition

INTRODUCTION

This manual provides an overview and guide to the book*MPLS-Enabled Applications, Third Edition*. This authoritative guide delves into Multiprotocol Label Switching (MPLS), a critical networking technology for carrying various types of network traffic, including voice telephony, real-time video, and data. The book demonstrates how MPLS facilitates network convergence, enabling operators to deliver more services over a unified physical infrastructure.
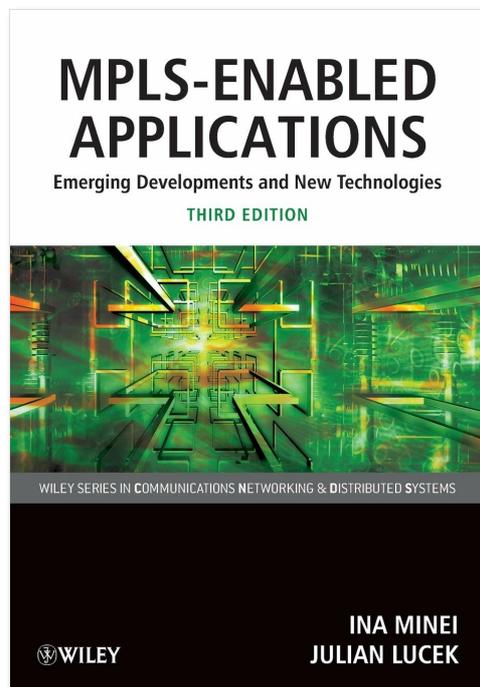

Figure 1: Front cover of the *MPLS-Enabled Applications, Third Edition* book, featuring the title, authors, and a network-themed graphic.

The Third Edition has been fully updated with new material, including over 170 illustrations and new chapters, guiding the reader from foundational concepts to advanced VPN applications. It is an essential resource for professionals involved in the design and deployment of MPLS systems, as well as researchers in the field.

KEY CONCEPTS AND COVERAGE

The book provides comprehensive and up-to-date coverage of various MPLS applications and related technologies. Key areas explored include:

- **Major MPLS Applications:** Detailed discussion on the current status and future potential of L2VPN, L3VPN, pseudowires, and VPLS.

- **MPLS Transport Profile (MPLS-TP):** A dedicated new chapter covering the latest developments in MPLS-TP.

- **MPLS in Access Networks and Seamless MPLS:** In-depth analysis of the new architecture for extending MPLS into access networks, covering both unicast and multicast scenarios.

- **Multicast Support in L3VPNs (mVPNs):** Extensive coverage explaining and comparing PIM/GRE and next-generation BGP/MPLS solutions, including advanced topics in next-generation multicast VPNs.

- **Advanced Protection Techniques:** A new chapter detailing techniques for 50 ms end-to-end service restoration.

- **Base Technology and IETF Drafts:** Comprehensive coverage of foundational MPLS technology and the latest IETF drafts, including pseudowire redundancy, VPLS multihoming, IRB, and P2MP pseudowires.
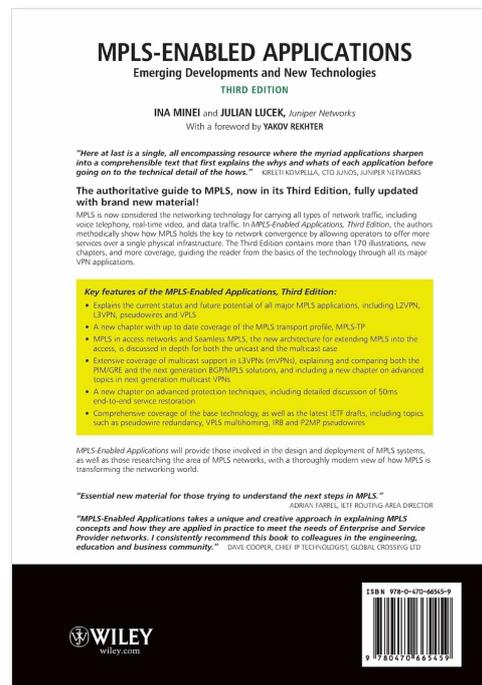

Figure 2: Back cover of the book, highlighting key features and endorsements from industry experts.

ABOUT THE AUTHORS

The book is authored by leading experts in the field of networking:

Ina Minei

Ina Minei is a network protocols engineer at Juniper Networks, specializing in MPLS protocols and applications, DiffServ-aware traffic engineering, and network convergence. She has contributed to the implementation of these features in the JUNOS operating system and is an active participant in industry forums, including the IETF. Prior to Juniper Networks, she worked at Cisco Systems on next-generation router operating system development.

Julian Lucek

Julian Lucek's background includes work with the Photonics Research Department at British Telecom, where he co-built the world's first all-optical regenerator. He later transitioned to the IP field, evaluating new routing platforms. Currently, he serves as a Consulting Engineer for Juniper Networks, assisting major Service Providers with MPLS deployments. He is a prolific author of published papers in communications technology and holds several patents in the area.

Book Specifications

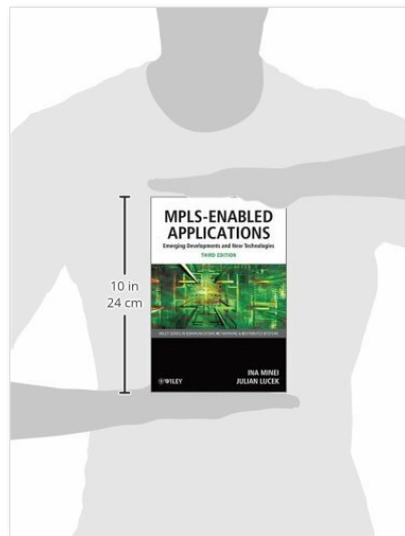| Specification	Detail
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Item Weight	2.34 pounds
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Figure 3: Physical dimensions of the book, illustrating its size and thickness.

Reading Guidance

To maximize your learning from *MPLS-Enabled Applications*, consider the following:

1. **Foundational Understanding:** The book progresses from basic concepts to advanced applications. It is recommended to read chapters sequentially to build a strong foundational understanding before moving to more complex topics.

2. **Reference Material:** This book serves as an excellent reference. Use the detailed index and chapter headings to quickly locate specific information on MPLS applications, protocols, or techniques.

3. **Practical Application:** While not a configuration guide, the theoretical depth provided is crucial for understanding the underlying principles of MPLS deployments. Apply the concepts learned to real-world networking scenarios.

4. **Care and Handling:** To preserve the book's condition, store it in a dry environment away from direct sunlight and extreme temperatures. Avoid bending the spine excessively to maintain its integrity.

5. **Stay Updated:** The field of networking evolves rapidly. While this edition is comprehensive, continuous learning beyond this text is encouraged to stay abreast of the latest developments.

PUBLISHER INFORMATION AND SUPPORT

For inquiries regarding *MPLS-Enabled Applications* or other publications, please contact the publisher:

Publisher: Wiley
Website: www.wiley.com

For specific support or errata related to the book's content, please refer to the publisher's official website or contact their customer service department. The ISBN-13 for this edition is **978-0470665459**, which can be used for reference when contacting the publisher.