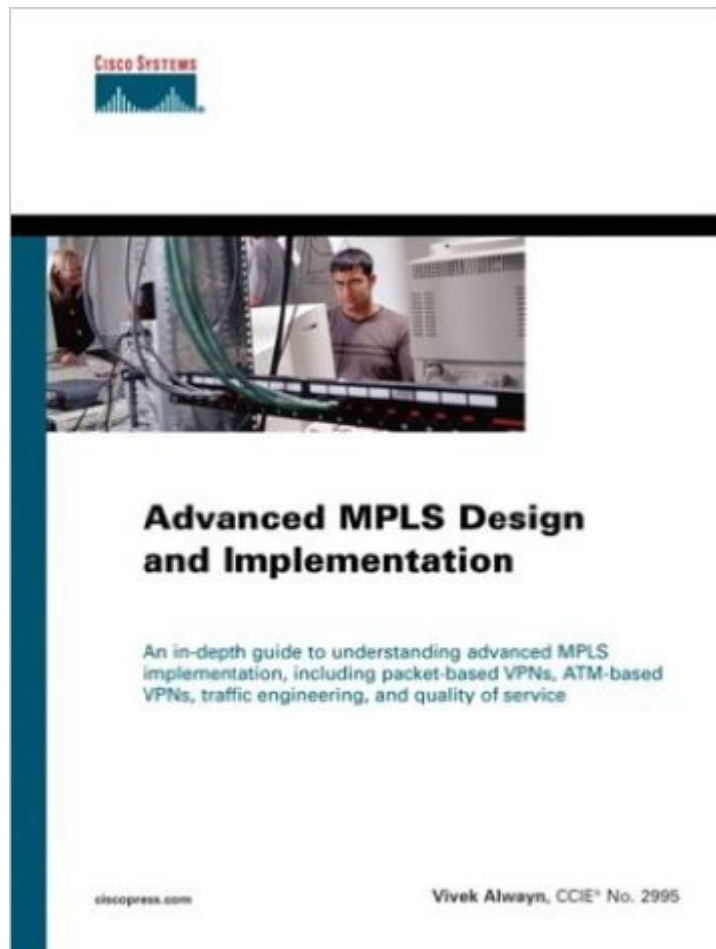


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# Advanced MPLS Design And Implementation (CCIE Professional Development)



## Synopsis

An in-depth guide to understanding advanced MPLS implementation, including packet-based VPNs, ATM-based VPNs, traffic engineering, and quality of service. Advanced MPLS Design and Implementation enables you to:

- Understand MPLS through a detailed analysis of MPLS architecture and operation
- Design and implement packet-based MPLS Virtual Private Networks (VPNs) using label switching routers (LSRs)
- Design and implement ATM-based MPLS VPNs using WAN-switched ATM LSRs
- Implement MPLS traffic engineering on your core network and optimize traffic flows dynamically
- Implement MPLS QoS and provide hard service guarantees with multiple classes of service

Acquire practical design and implementation knowledge of real-world MPLS VPNs, TE, and QoS through case studies and configuration examples. Multiprotocol Label Switching (MPLS) is a highly scalable, high-performance forwarding technology that has multiple applications in the service provider and enterprise environment. This book is intended for internet network engineers and administrators who are responsible for designing, implementing, and supporting service provider or enterprise MPLS backbone networks. It contains a broad range of technical details on MPLS and its associated protocols, packet-based MPLS, ATM-based MPLS, MPLS traffic engineering, MPLS QoS, MPLS design, and advanced MPLS architectures. This book contains MPLS theory, design, configuration, and various case studies. Use this book as a reference and guide for designing, implementing, and supporting an MPLS network. Even if you're not using Cisco(r) equipment, this book can increase your awareness and understanding of MPLS technology as well as provide you with detailed design concepts and rules for building scalable MPLS networks. Advanced MPLS Design and Implementation is your guide to understanding, designing, and implementing MPLS VPNs, WAN-switched MPLS VPNs, MPLS traffic engineering, and MPLS QoS.

## Book Information

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## Customer Reviews

For those familiar with the basic rudiments of MPLS this book gives an excellent overview of the more advanced aspects of the subject. It is strictly a monograph, as there are no exercises in the book, but it could be used as a classroom textbook if it were supplemented with problem sets. The book is aimed at network engineers and managers, but those interested in the performance modeling of MPLS networks will find the book very useful. The author begins the book with an elementary overview of MPLS, and why it was invented, namely to allow routers and ATM switches to do forwarding based on the contents of a label, and not route lookup. In the next chapter, the role of MPLS in cloud technologies like TDM, Frame Relay, and ATM is discussed. The reader is expected to know about these technologies in detail, for only short reviews of each is given. The concept of a forward equivalence class (FEC) is introduced, and conventional layer 3 routing versus MPLS is discussed. The author does not discuss the performance issues involved with using MPLS routing versus ordinary layer 3 routing. The advantages of using labels to do the forwarding instead of network layer forwarding are addressed in the next chapter on MPLS architecture. The author's treatment is very detailed and readers can expect a deeper understanding of the MPLS node architecture and control plane after finishing this chapter. The author emphasizes the unsuitability of OSPF, IS-IS, IGRP, RIP, and RIPv2 for label-binding information distribution. In addition, the ability of MPLS to detect and prevent routing loops is discussed. Chapter 4 discusses the use of MPLS to construct VPNs.

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