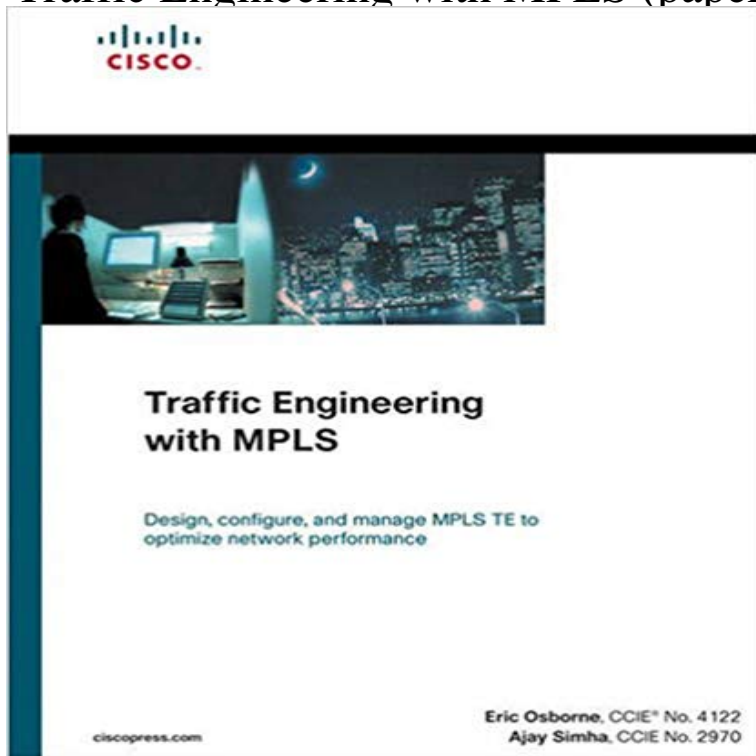


## Traffic Engineering with MPLS (paperback)



Design, configure, and manage MPLS TE to optimize network performance. Almost every busy network backbone has some congested links while others remain underutilized. That's because shortest-path routing protocols send traffic down the path that is shortest without considering other network parameters, such as utilization and traffic demands. Using Traffic Engineering (TE), network operators can redistribute packet flows to attain more uniform distribution across all links. Forcing traffic onto specific pathways allows you to get the most out of your existing network capacity while making it easier to deliver consistent service levels to customers at the same time. Cisco(r) Multiprotocol Label Switching (MPLS) lends efficiency to very large networks, and is the most effective way to implement TE. MPLS TE routes traffic flows across the network by aligning resources required by a given flow with actual backbone capacity and topology. This constraint-based routing approach feeds the network route traffic down one or more pathways, preventing unexpected congestion and enabling recovery from link or node failures. Traffic Engineering with MPLS provides you with information on how to use MPLS TE and associated features to maximize network bandwidth. This book focuses on real-world applications, from design scenarios to feature configurations to tools that can be used in managing and troubleshooting MPLS TE. Assuming some familiarity with basic label operations, this guide focuses mainly on the operational aspects of MPLS TE-how the various pieces work and how to configure and troubleshoot them. Additionally, this book addresses design and scalability issues along with extensive deployment tips to help you roll out MPLS TE on your own network. Understand the background of TE and MPLS, and brush up on MPLS forwarding basics. Learn about

router information distribution and how to bring up MPLS TE tunnels in a network

Understand MPLS TE's Constrained Shortest Path First (CSPF) and mechanisms you can use to influence CSPF's path calculation

Use the Resource Reservation Protocol (RSVP) to implement Label-Switched Path setup

Use various mechanisms to forward traffic down a tunnel

Integrate MPLS into the IP quality of service (QoS) spectrum of services

Utilize Fast Reroute (FRR) to mitigate packet loss associated with link and node failures

Understand Simple Network Management Protocol (SNMP)-based measurement and accounting services that are available for MPLS

Evaluate design scenarios for scalable MPLS TE deployments

Manage MPLS TE networks by examining common configuration mistakes and utilizing tools for troubleshooting MPLS TE problems

Eric and Ajay work in the development group at Cisco that built Traffic Engineering. They are among those with the greatest hands-on experience with this application. This book is the product of their experience.-George Swallow, Cisco Systems, Architect for Traffic EngineeringCo-Chair, IETF MPLS Working Group

Eric Osborne, CCIE(r) #4122, has been doing Internet engineering of one sort or another since 1995. He joined Cisco in 1998 to work in the Cisco Technical Assistance Center (TAC), moved from there to the ISP Expert team and then to the MPLS Deployment team. He has been involved in MPLS since the Cisco IOS(r) Software Release 11.1CT days.

Ajay Simha, CCIE #2970, joined the Cisco TAC in 1996. He then went on to support tier 1 and 2 ISPs as part of Cisco's ISP Expert team. Ajay has been working as an MPLS deployment engineer since October 1999, and he has first-hand experience in troubleshooting, designing, and deploying MPLS.

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