

MPLS in the SDN Era: Interoperable Scenarios to Make Networks Scale to New Services

Antonio Sanchez Monge, Krzysztof Grzegorz Szarkowicz



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How can you make multivendor services work smoothly on today's complex networks? This practical book shows you how to deploy a large portfolio of multivendor Multiprotocol Label Switching (MPLS) services on networks, down to the configuration level. You'll learn where Juniper Network's Junos, Cisco's IOS XR, and OpenContrail, interoperate and where they don't.

Two network and cloud professionals from Juniper describe how MPLS technologies and applications have rapidly evolved through services and architectures such as Ethernet VPNs, Network Function Virtualization, Seamless MPLS, Egress Protection, External Path Computation, and more. This book contains no vendor bias or corporate messages, just solid information on how to get a multivendor network to function optimally.

Topics include:

- Introduction to MPLS and Software-Defined Networking (SDN)
- The four MPLS Builders (LDP, RSVP-TE, IGP SPRING, and BGP)
- Layer 3 unicast and multicast MPLS services, Layer 2 VPN, VPLS, and Ethernet VPN
- Inter-domain MPLS Services
- Underlay and overlay architectures: data centers, NVO, and NFV
- Centralized Traffic Engineering and TE bandwidth reservations
- Scaling MPLS transport and services
- Transit fast restoration based on the IGP and RSVP-TE
- FIB optimization and egress service for fast restoration

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