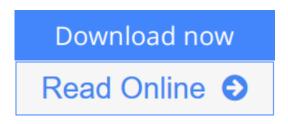# MPLS in the SDN Era: Interoperable Scenarios to Make Networks Scale to New Services

By Antonio Sanchez Monge, Krzysztof Grzegorz Szarkowicz

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MPLS in the SDN Era: Interoperable Scenarios to Make Networks Scale to New Services By Antonio Sanchez Monge, Krzysztof Grzegorz Szarkowicz

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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Editorial Review

About the Author

Antonio "Ato" Sánchez-Monge has 16 years of experience in the IP/MPLS (and Software-Defined) Networking industry, first with HP as Cisco partner, and then for the last 11 years in Juniper Networks, currently in the Contrail Business Unit. He is fluent in three languages and holds CCIE R&S # 13098, JNCIE-SP #222. Ato has written five more books in Juniper Networks, and is leading several knowledge management initiatives inside the company. MPLS and SDN are part of his daily job, from design down to the details, and is a go-to person inside Juniper for many technical topics.

Krzysztof Grzegorz Szarkowicz is a Senior Professional Services Engineer at Juniper Networks. He has 20 years of experience in the industry, gained with HP Labs, Telia Research, Ericsson, Cisco, and finally in the last 8 years with Juniper Networks; and having performed varied roles as Researcher, Program Manager, Trainer and Consultant. Krzysztof speaks fluently four languages, and he holds both Cisco (CCIE-SP #14550 Emeritus) and Juniper (JNCIE-SP #400) certifications. Inside Juniper, he is a recognized MPLS expert with very extensive field experience on Seamless MPLS Mobile Backhaul, including several large-scale deployments. He has strong collaboration links with the Junos MPLS development team.

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