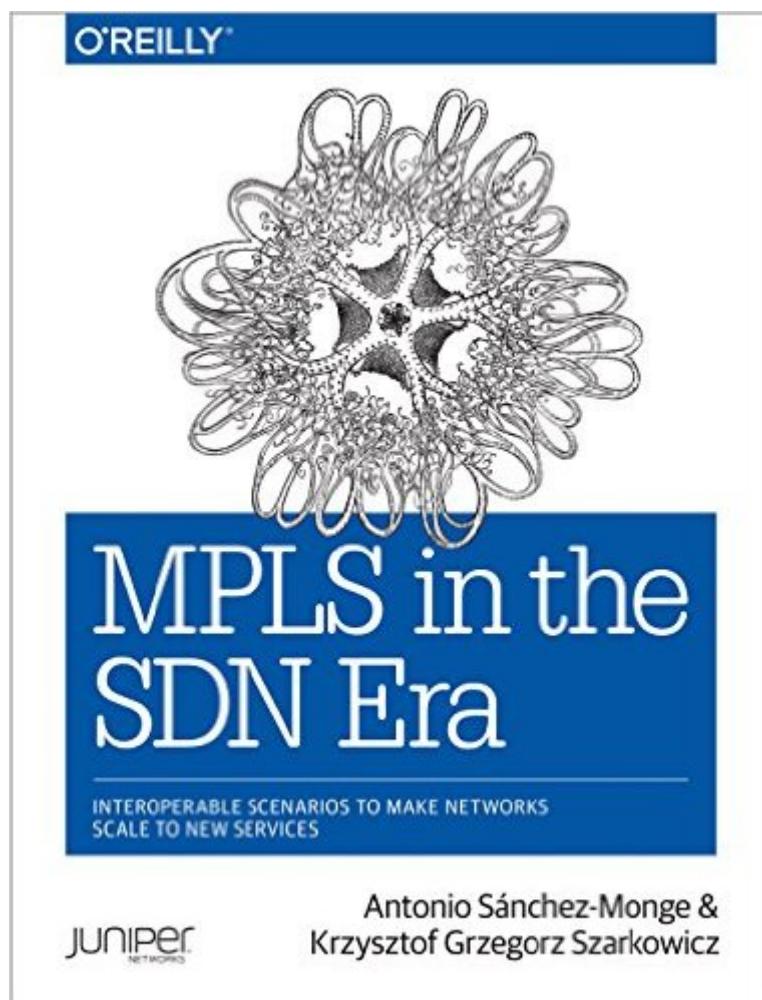


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# MPLS In The SDN Era: Interoperable Scenarios To Make Networks Scale To New Services



## Synopsis

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

## Book Information

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## Customer Reviews

This book is simply great...it can be compared with the also essential book "MPLS Enabled Applications" from Lucian Lucek and Ina Minei, but adding a practical (and interoperable) point of

view. And not only for MPLS technologies (including the last MPLS trends), the authors successfully describe the way the SDN (and of course NFV) is changing the actual IP/MPLS networks, not only for Service Provider environments but in Data Centers. Last but not least, this book can be a good guide for understand technologies, designing networks, but also for students that are preparing "Internet Expert" Certifications, like CCIE-SP and JNCIE-SP. Congratulations!!

MPLS in the SDN Era: Interoperable Scenarios is a great book. For me, MPLS enabled Applications-Volume 3 is MPLS Bible 1.0 and this book as Ivan Pepelnjak [...] says rightly is MPLS Bible 2.0. Today, there are Networking books in the market just with a single vendor approach with their OS, network topologies and configurations. But, there is not one book with Inter-operable network scenarios. Today's SP Networks actually also are multi-vendor and not just a single vendor. As a Network Engineer at a SP and a IP/MPLS Lab geek out of interest, I have a job of testing interoperable network scenarios and making multiple vendors work products work smoothly. It's one heck of a job. Hence, I realize how brilliantly Ato and Krzysztof have worked hard to bring up this awesome book with Interoperable Network scenarios with Juniper Networks & Cisco Systems. This book comes with a title, examples and topologies of the interoperable networks of JunOS and IOS-XR, two of the Best Networking companies with great scalable Network Operating systems which makes my life easy and all other Network Engineers™ who deal with complex networks which need to interoperate and work together. I simply enjoy reading and labbing up the scenarios from this book. This BOOK could be a potential go-to book for both JNCIE-SP and CCIE-SP. I believe it's a must-have book for all Network Engineers working in Service Provider Industry dealing with MPLS backbone Networks leaning towards SDN/NFV stuff. Many Kudos & Congratulations to authors Ato and Krzysztof together to pull this off! Chinar

MPLS is the backbone of all modern service provider, large enterprise and data center networks. This key technology is important for any network engineer to fully understand. This book provides both a comprehensive overview of MPLS deployment options and implementations and a look at how MPLS fits into the SDN (software defined network) in the modern data center. This book is both comprehensive and clear with numerous specific deployment examples provided to assist in fully understanding the deployment options. A top notch resource.

I am enjoying this book because it is fit for people from different backgrounds. I am not a MPLS expert, however I can find the content very easy to understand and I am learning new stuff day by

day. Glad that it has a practical approach so there are real examples. I can't wait to get my virtual topologies running and try the examples in my lab!

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