



Juniper MX Series: A Comprehensive Guide to Trio Technologies on the MX

By Douglas Richard, Jr. Hanks, Harry Reynolds, David Roy

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Discover why routers in the Juniper MX Series—with their advanced feature sets and record-breaking scale—are so popular among enterprises and network service providers. This revised and expanded edition shows you step-by-step how to implement high-density, high-speed Layer 2 and Layer 3 Ethernet services, using advanced firewall filters, redundant inline services, powerful CoS tool sets, and many other Juniper MX features.

This second edition was written by a Senior NOC Engineer, whose vast experience with the MX Series is well documented. Each chapter covers a specific Juniper MX vertical and includes review questions to help you test what you've learned. This edition includes new chapters on load balancing and vMX—Juniper MX's virtual instance.

- Discover Junos architecture, MX chassis, and Trio Linecards
- Work with Juniper MX's bridging, VLAN VXLAN, and virtual switches
- Create a firewall filter framework and discover the latest flexible filtering options
- Secure your router and add an extra layer of security with Junos DDOS protection and SCFD feature
- Discover the advantages of hierarchical scheduling, ingress queuing, and flexible remarking
- Combine Juniper MX routers, using a virtual chassis or MC-LAG
- Understand and use classical and advanced Trio Chipset's load balancing features
- Dive into Trio inline services such as inline NAT, redundant logical tunnel, or filter-based GRE tunnel
- Discover vMX internal architecture and explore the benefits and typical use case of a virtual router

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Editorial Review

About the Author

Douglas Richard Hanks Jr. is a Director of Product Management with Juniper Networks and focuses on next-generation hardware and software solutions and corporate strategy. He works in the Switching and Security Product Team (SSPT) that's responsible for the Juniper EX, QFX, and SRX Series hardware, software, and solutions.

Previously he was a Sr. Solution Architect in the Switching, Security, and Solutions (S3BU) focusing on data center solutions. Prior to working in the data center, Douglas worked as a Sr. Solution Architect in the Routing Business Unit (RBU) supporting solutions with the Juniper MX platform.

Douglas is certified with Juniper Networks as JNCIE-ENT #213 and JNCIE-SP #875. Douglas' interests are network engineering and architecture for enterprise and service provider technologies. He is the author of the Juniper QFX10000 Series, Juniper QFX5100 and Juniper MX Series published by O'Reilly Media.

Douglas is also the co-founder of the Bay Area Juniper Users Group (BAJUG). When he isn't busy with networking, Douglas enjoys computer programming and photography.

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Harry Reynolds has over thirty years experience in the networking industry, with the last 20 years focused on LANs and LAN interconnection. He is CCIE # 4977, and JNCIE # 3, and also holds various other industry and teaching certifications. Harry was a contributing author to Juniper Network Complete Reference (McGraw-Hill, 2002), and wrote the JNCIE and JNCIP Study Guides (Sybex Books, 2003). As a co-author he wrote Junos Enterprise Routing and Junos Enterprise Switching (O'Reilly, 2007 and 2009 respectively). Prior to joining Juniper, Harry served in the US Navy as an Avionics Technician, worked for equipment manufacturer Micom Systems, and spent much time developing and presenting hands-on technical training curriculums targeted to both enterprise and service provider needs. Harry has developed and presented internetworking classes for organizations such as American Institute, American Research Group, Hill Associates, and Data Training Resources. Currently Harry performs Customer Specific Testing that simulates one of the nation's largest private IP backbones at multi-dimensional scale. When the testing and writing is done, a rare event to be sure, Harry can be found in his backyard metal shop trying to make Japanese style blades.

David Roy is a network support engineer for Orange, one of the main Service Providers in Europe. For the last 10 years he's collaborated on many projects based on IP and MPLS technologies. He is also a focus technical support engineer for Orange. Before that, he was part of a Research and Development team focused on Digital Video Broadcasting and IP over Satellite technologies. He loves troubleshooting complex routing and switching issues and he has spent much time in labs reverse engineering different routing platforms including the Juniper MX series. He wrote the DayOne book: "This Week: An Expert Packet Walkthrough on the MX Series 3D". David is triple JNCIE SP #703, ENT #305 and SEC #144. When he's not working on

routers, he plays drums, listens to rock and drinks microbrews. David can be found on Twitter @door7302.

Users Review

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Michael Madden:

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