Fast Lane

Junos Service Provider Switching (JSPX)

ID JSPX   **Price** CHF 2,300.—(excl. VAT)   **Duration** 2 days

Who should attend

This course benefits individuals responsible for configuring, managing, and monitoring devices running Junos OS.

This course is part of the following Certifications

Juniper Networks Certified Internet Specialist Service Provider Routing & Switching (JNCIS-SP)

Prerequisites

Students should have basic networking knowledge and an understanding of the Open Systems Interconnection (OSI) reference model and the TCP/IP protocol suite. Students should also attend the Introduction to the Introduction to the Junos Operating System (IJOS) courses prior to attending this class.

Course Objectives

After successfully completing this course, you should be able to:

- Describe the different Ethernet standards organizations.
- Describe the Layer 2 services that are available on the MX Series 3D Ethernet Universal Edge Routers.
- Describe the function of an Ethernet LAN.
- Describe learning and forwarding in a bridging environment.
- Describe Ethernet frame filtering.
- Implement VLAN tagging.
- Describe and implement MVRP.
- Implement IRB.
- Implement a Layer 2 firewall filter.
- Describe the use of a routing instance.
- Describe the function of a virtual router.
- Describe the function of a virtual switch.
- Describe the usage of logical systems.
- Implement a virtual switch.
- Describe interconnecting routing instances.
- Describe the different IEEE VLAN stacking models.
- Describe the components of provider bridging.
- Configure and monitor provider bridging.
- Explain the purpose of the Spanning Tree Protocol (STP).

- Describe the basic operation of STP, Rapid Spanning Tree Protocol (RSTP), Multiple Spanning Tree Protocol (MSTP), and VLAN Spanning Tree Protocol (VSTP).
- Configure and monitor STP, RSTP, MSTP, and VSTP.
- Explain the purpose of bridge protocol data unit (BPDU), loop, and root protection.
- Explain typical OAM features.
- Describe the basic operation of link fault management (LFM).
- Describe the basic operation of connectivity fault management (CFM).
- Configure and monitor Ethernet OAM.
- Describe the basic operation of Ethernet ring protection (ERP).
- Configure and monitor ERP.
- Describe the basic operation of LAGs and MC-LAGs.
- Configure and monitor LAGs and MC-LAGs.
- Describe the basic functionality of MX Series Virtual Chassis.
- Describe a basic troubleshooting method.
- List common issues that disrupt network operations.
- Identify tools used in network troubleshooting.
- Use available tools to resolve network issues

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Training Centres worldwide

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