

# Junos Service Provider Switching (JSPX)

ID JSPX Prix CHF 2 300,- (Hors Taxe) Durée 2 jours

#### A qui s'adresse cette formation

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

### Cette formation prépare à la/aux certifications

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

#### Pré-requis

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.

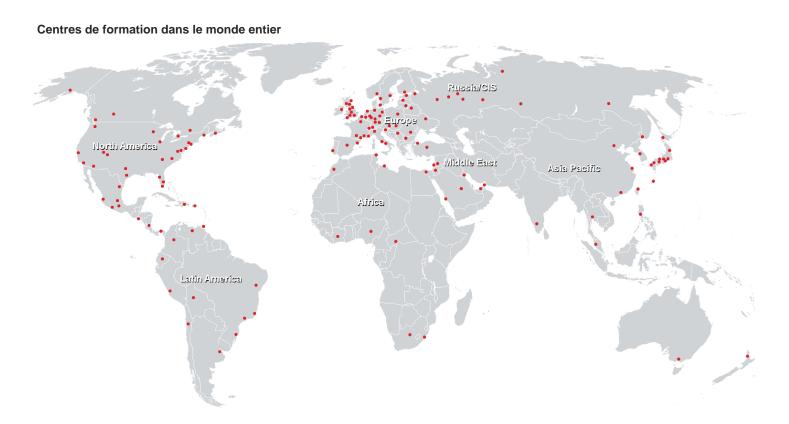
## **Objectifs**

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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