

Advanced Junos Enterprise Switching Using Enhanced Layer 2 Software (AJEX)

ID AJEX Price CHF 2,100.—(excl. VAT) Duration 2 days

Who should attend

This course benefits individuals responsible for configuring and monitoring EX Series switches using Junos ELS.

This course is part of the following Certifications

Juniper Networks Certified Internet Professional Enterprise Routing & Switching (JNCIP-ENT)

Prerequisites

Students should have an intermediate-level of 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 Junos Operating System \(IJOS\)](#) course, the Junos Routing Essentials (JRE) course, and the [Junos Enterprise Switching \(JEX\)](#) course prior to attending this class.

Course Objectives

This two-day course provides detailed coverage of virtual LAN (VLAN) operations, Multiple Spanning Tree Protocol (MSTP) and VLAN Spanning Tree Protocol (VSTP), authentication and access control for Layer 2 networks, IP telephony features, class of service (CoS) and monitoring and troubleshooting tools and features supported on the EX Series Ethernet Switches. Through demonstrations and hands-on labs, students will gain experience in configuring and monitoring the Junos operating system and in monitoring device and protocol operations. This course uses Juniper Networks EX 4300 Series Ethernet Switches for the hands-on component, but the lab environment does not preclude the course from being applicable to other Juniper hardware platforms running the Junos OS.

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

- Restrict traffic flow within a VLAN.

- Manage dynamic VLAN registration.
- Tunnel Layer 2 traffic through Ethernet networks.
- Review the purpose and operations of a spanning tree.
- Implement multiple spanning-tree instances in a network.
- Implement one or more spanning-tree instances for a VLAN.
- List the benefits of implementing end-user authentication.
- Explain the operations of various access control features.
- Configure and monitor various access control features.
- Describe processing considerations when multiple authentication and access control features are enabled.
- Describe some common IP telephony deployment scenarios.
- Describe features that facilitate IP telephony deployments.
- Configure and monitor features used in IP telephony deployments.
- Explain the purpose and basic operations of CoS.
- Describe CoS features used in Layer 2 networks.
- Configure and monitor CoS in a Layer 2 network.
- 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.

Course Content

- Course Introduction
- Advanced Ethernet Switching
- Advanced Spanning Tree
- Authentication and Access Control
- Deploying IP Telephony Features
- Class of Service
- Monitoring and Troubleshooting Layer 2 Networks

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Training Centres worldwide



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