



Institute for Networking &
Data Center Technologies

JUNIPER
NETWORKS

EDUCATION SERVICES
AUTHORIZED PARTNER

Authorized Juniper Networks Training 2013

- » Enterprise Routing & Switching
- » Service Provider
- » Security
- » Firewall / VPN
- » Network Management
- » Wireless
- » Junos Pulse
- » Junos Software
- » Junos Space

Authorized Juniper Networks Training with Juniper's worldwide Education Partner

INDC, Institute for Networking & Data Center Technologies, provides authoritative advanced training and professional development in high-end technology to hone your people's skills and benefit your company.

Advance your career and credentials with leading Authorized Juniper Training, which will allow you to demonstrate your abilities to handle all challenges that may come your way. Make sure you have the knowledge and skills to deploy and maintain cost-effective, high-performance networks - keeping you ahead of the technology curve.

INDC is a global Juniper Networks Education Partner. All our instructors are Juniper-certified specialists with technical industry knowledge and experience, providing you with the very best instructor-led hands-on courses.



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Delivery Methods

INDC offers several delivery methods.



ILT - Instructor-Led Classroom Training

ILT sessions are conducted in a physical classroom environment.



ILO - Instructor-Led Online Training

ILO sessions are conducted via WebEx in a VoIP environment.



FLEX™ Classroom - Combined ILT & ILO

FLEX Classroom sessions are delivered via ILO and ILT giving you the ultimate flexibility. Choose to attend via the Internet or attend the class in person. Either way, your experience will be equally as effective including all hands-on labs.



Guaranteed Dates

With our Guaranteed Dates schedule you can book your training with the safety and reassurance that your course will not be cancelled or rescheduled.



Private Onsite Training

Our private onsite training can be customised to your needs and delivered at your location.

Juniper Networks Training Credits

Juniper Networks Training Credits (JTCs) are accepted as payment for all INDC delivered public Juniper courses. They enable you to increase productivity and improve network optimization while safeguarding a training budget and monitoring training expenditures. Benefits include:

- » Easy, up-front budgeting, avoiding the allocation of training funds on an ad hoc.
- » Develop a highly trained, satisfied, and motivated IT staff.
- » Flexibility to use when needed for a 12-month period.
- » Received as part of a comprehensive solution including products and services.
- » Keep pace with fast-paced technology and gain competitive advantage.
- » Simplified Order Process to buy credits.
- » Reduce expenses and streamline financial process with a single budget and purchase order.

For more information about ordering and redeeming Juniper Networks Training Credits contact us at +49 40 253346130 or visit www.indc.de/juniper-training-credits.

» To view our full course offering and schedule go to www.indc.de.

Juniper Networks Certification Program

The Juniper Networks Certification Program (JNCP) consists of Junos-based and platform-specific, multi-tiered tracks, which enable you to demonstrate competence with Juniper’s technology in the areas most pertinent to your job function and experience.

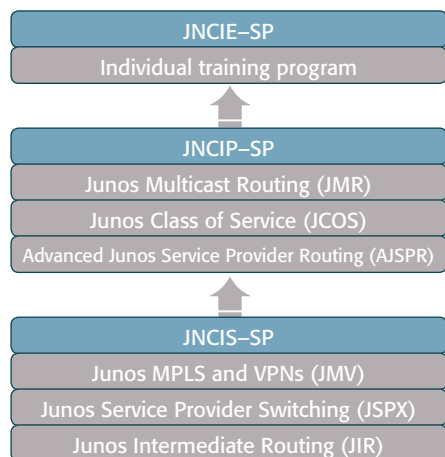
Junos Certifications

The JNCP features three tracks based on the Junos OS:

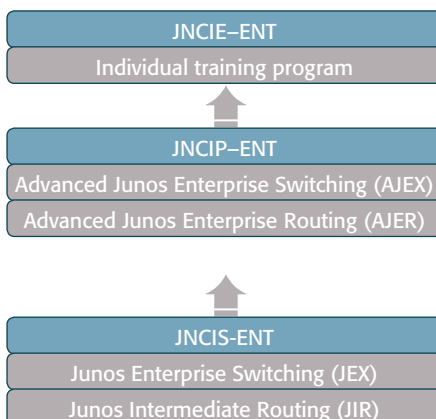
- » **Service Provider Routing & Switching:** This track is for those working with infrastructure or access solutions in a Juniper Networks routing and/or switching end-to-end environment primarily within the telecommunications arena or a Fortune 100 Enterprise environment.
- » **Enterprise Routing & Switching:** This track is for those working in small through large Enterprise environments that install and support Juniper Networks technology-based networks in which LAN and WAN routers and switches reside.
- » **Junos Security:** This track is directed toward those who design and implement Juniper Networks secure networks.



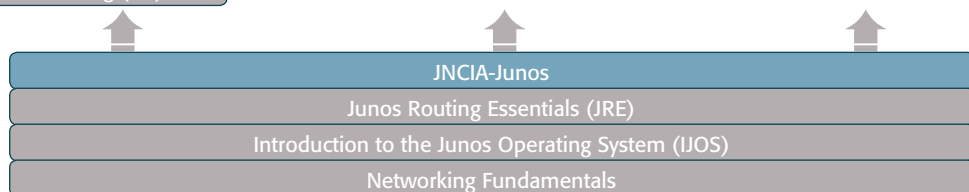
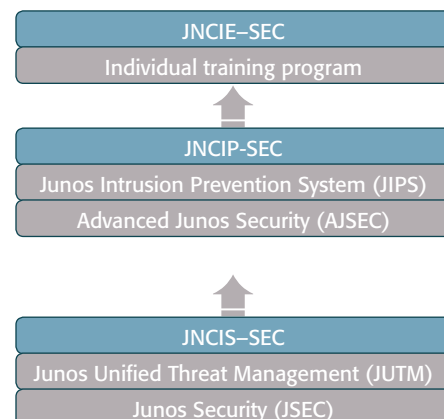
Service Provider R & S



Enterprise R & S



Security



■ Certification
■ Training Course

Product and Technology Certifications

The JNCP features different Product and Technology tracks based on specific Juniper Networks technologies. These tracks are aimed at professionals that make extensive use of these technologies.

Level	E-Series	Firewall/ VPN	IDP	Junos Pulse Access Control	Junos Pulse Secure Access	QFabric	Wireless LAN	WX Series
JNCIE								
JNCIP	JNCIP-E							
JNCIS	JNCIS-E	JNCIS-FWV		JNCIS-AC	JNCIS-SA	JNCIS-QF	JNCIS-WLAN	
JNCIA	JNCIA-E		JNCIA-IDP					JNCIA-WX

JNCIE - Juniper Networks Certified Internet Expert
JNCIP - Juniper Networks Certified Internet Professional

JNCIS - Juniper Networks Certified Internet Specialist
JNCIA - Juniper Networks Certified Internet Associate

Certification Power Workshops

Enterprise Networking Power Workshop (JNCIS-ENT)

ID JP-JNCIS-ENT **Duration** 5 days **Price** 3.190 EUR / 43 JTC (excl. VAT)

This intensive power workshop combines:

- » Introduction to the Junos Operating System (IJS)
- » Junos Routing Essentials (JRE)
- » Junos Enterprise Switching (JEX)
- » Junos Intermediate Routing (JIR)

Schedule

Austria		Hamburg	08.07.-12.07.13	Switzerland	
Vienna	30.09.-04.10.13	Stuttgart	23.09.-27.09.13	Zurich	01.04.-05.04.13
Germany		Frankfurt	25.11.-29.11.13	Zurich	12.08.-16.08.13
Munich	22.04.-26.04.13				



Security Specialist Power Workshop (JNCIS-SEC)

ID JP-JNCIS-SEC **Duration** 5 days **Price** 3.290 EUR / 43 JTC (excl. VAT)

This intensive power workshop combines:

- » Introduction to the Junos Operating System (IJS)
- » Junos Routing Essentials (JRE)
- » Junos Security (JSEC)
- » Junos Unified Threat Management (JUTM)

Schedule

Austria		Duesseldorf	05.08.-09.08.13	Switzerland	
Vienna	05.08.-09.08.13	Munich	07.10.-11.10.13	Zurich	08.07.-12.07.13
Germany		Frankfurt	02.12.-06.12.13	Zurich	18.11.-22.11.13
Munich	22.04.-26.04.13				



Firewall/VPN Specialist Power Workshop (JNCIS-FWV)

ID JP-JNCIS-FWV **Duration** 5 days **Price** 3.290 EUR / 43 JTC (excl. VAT)

This intensive power workshop combines:

- » Advanced Juniper Networks IPSec VPN Implementation (AJVI)
- » Integrating Juniper Networks Firewalls and VPNs into High Performance Networks (IFVH)
- » Attack Prevention with Juniper Networks Firewalls (APJF)

Schedule

Austria		Germany		Switzerland	
Vienna	13.05.-17.05.13	Munich	13.05.-17.05.13	Zurich	11.11.-15.11.13
Vienna	29.07.-02.08.13	Berlin	11.11.-15.11.13		

Service Provider Power Workshop (JNCIS-SP)

ID JP-JNCIS-SP **Duration** 10 days **Price** 7.200 EUR / 94 JTC (excl. VAT)

This intensive power workshop combines:

- » Introduction to the Junos Operating System (IJS)
- » Junos Service Provider Switching (JSPX)
- » Junos MPLS and VPNs (JMV)
- » Junos Routing Essentials (JRE)
- » Junos Intermediate Routing (JIR)

Schedule

Dates on request

Enterprise Routing and Switching Courses

Introduction to the Junos Operating System (IJOS)

ID JP-IJOS **Duration** 1 day **Price** 690 EUR / 9 JTC (excl. VAT)



Course Outline

Junos Operating System Fundamentals

- » The Junos OS; Traffic Processing; Platforms Running the Junos OS

User Interface Options

- » User Interface Options; The Junos CLI: CLI Basics; The Junos CLI: Operational Mode; The Junos CLI: Configuration Mode; Lab 1: The Junos CLI

Initial Configuration

- » Factory-Default Configuration; Initial Configuration; Interface Configuration; Lab 2: Initial System Configuration

Secondary System Configuration

- » User Configuration & Authentication; System Logging & Tracing; Network Time Protocol; Archiving Configurations; SNMP;

Lab 3: Secondary System Configuration Operational Monitoring & Maintenance

- » Monitoring Platform and Interface Operation; Network Utilities; Maintaining the Junos OS; Password Recovery; Lab 4: Operational Monitoring and Maintenance

Schedule

Austria		Flex™ Classroom	
Vienna	19.08.13	🟢	E 15.04.13
Germany		🟢	E 13.05.13
Munich	03.06.13	🟢	E 26.08.13
Hamburg	15.07.13	🟢	E 30.09.13
Duesseldorf	09.09.13	🟢	E 02.12.13
Munich	04.11.13		
Frankfurt	11.11.13		
Switzerland			
Zurich	15.07.13		
Zurich	09.12.13		E Training in English

Junos Routing Essentials (JRE)

ID JP-JRE **Duration** 1 day **Price** 690 EUR / 9 JTC (excl. VAT)

Course Outline

Routing Fundamentals

- » Routing Concepts: Overview of Routing, The Routing Table, Routing Instances; Static Routing; Dynamic Routing; Lab 1: Routing Fundamentals

Routing Policy and Firewall Filters

- » Routing Policy Overview; Case Study: Routing

Policy; Lab 2: Routing Policy; Firewall Filters Overview; Case Study: Firewall Filters; Unicast Reverse-Path-Forwarding Checks; Lab 3: Firewall Filters

Class of Service

- » CoS Overview; Traffic Classification; Traffic Queuing; Traffic Scheduling; Case Study: CoS; Lab 4: Class of Service

Schedule

Austria		Munich	05.11.13
Vienna	20.08.13	Frankfurt	E 12.11.13
Germany		Switzerland	
Munich	04.06.13	Zurich	16.07.13
Hamburg	16.07.13	Zurich	10.12.13
Duesseldorf	E 10.09.13		E Training in English

Free JNCIA-Junos (Juniper Networks Certified Internet Associate - Junos) certification exam voucher included!

Junos Intermediate Routing (JIR)

ID JP-JIR **Duration** 2 days **Price** 1.390 EUR / 18 JTC (excl. VAT)

Course Outline

Protocol-Independent Routing

- » Static Routes; Aggregated Routes; Generated Route; Martian Addresses; Routing Instances, Lab 1: Protocol-Independent Routing

Load Balancing and Filter-Based Forwarding

- » Overview of Load Balancing; Configuring & Monitoring Load Balancing; Overview of Filter-Based Forwarding; Configuring & Monitoring Filter-Based Forwarding; Lab 2: Load Balancing and Filter-Based Forwarding

Open Shortest Path First

- » Overview of OSPF; Adjacency Formation and the Designated Router Election; OSPF Scalability; Configuring and Monitoring OSPF; Basic OSPF Troubleshooting; Lab 3: Open Shortest Path First

Border Gateway Protocol

- » Overview of BGP; BGP Attributes; IBGP Versus EBGP; Configuring & Monitoring BGP; Lab 4: Border Gateway Protocol

IP Tunneling

- » Overview of IP Tunneling; GRE and IP-IP Tunnels; Implementing GRE and IP-IP Tunnels; Lab 5: IP Tunneling

High Availability

- » Overview of High Availability Networks; GR; Graceful RE Switchover; Nonstop Active

Routing; BFD; VRRP; Lab 6: High Availability



Schedule

Austria		Berlin	26.11.-27.11.13	🟢	E 11.06.-12.06.13
Vienna	30.07.-31.07.13	Switzerland		🟢	E 03.09.-04.09.13
Germany		Zurich	17.09.-18.09.13	🟢	E 24.09.-25.09.13
Stuttgart	16.04.-17.04.13	Flex™ Classroom		🟢	E 05.11.-06.11.13
Hamburg	18.06.-19.06.13			🟢	E 26.11.-27.11.13
Stuttgart	08.10.-09.10.13			🟢	E 09.04.-10.04.13
				🟢	E 14.05.-15.05.13
					E Training in English

Juniper Advanced Enterprise Routing (AJER)

ID JP-AJER **Duration** 3 days **Price** 1.790 EUR / 23 JTC (excl. VAT)

Course Outline

- OSPF**
- » OSPFv2 Review; Link-State Advertisements; Protocol Operations; OSPF Authentication; OSPFv3; Lab 1: Configuring and Monitoring OSPF
- OSPF Areas**
- » Review of OSPF Areas; Stub Area Operation; Stub Area Configuration; NSSA Operation; NSSA Configuration; Route Summarization; Lab 2: Configuring and Monitoring OSPF Areas and Route Summarization
- OSPF Case Studies and Solutions**
- » IGP Transition Overview; Transition Case Study; OSPF Multiarea Adjacencies; External Reachability; Virtual Links; Lab 3: Configuring and Monitoring Routing Policy and Advanced OSPF Policy

- BGP**
- » Review of BGP; BGP Operations; Load Balancing Options; Path Selection and Configuration Options; Lab 4: Implementing BGP
- BGP Attributes and Policy**
- » Policy and BGP; BGP Attributes; Details and Manipulation of Common BGP Path Attributes; Lab 5: BGP Attributes
- Enterprise Routing Policies**
- » Enterprise BGP Core Network Design; Enterprise External Network Deployment; Lab 6: Implementing Enterprise Routing Policies
- Introduction to Multicast**

- » Overview of Multicast; Multicast Addressing; RPF; IGMP
- Multicast Routing Protocols and SSM**
- » Overview of Multicast Routing Protocols; PIM-SM Using the ASM Model; Lab 7: Implementing PIM-SM; PIM-SM Using the SSM Model; Lab 8: Implementing SSM
- Class of Service**
- » CoS Components Review & Case Study; CoS Processing & CoS Defaults on the SRX Series Device; Policing; Virtual Channels; Monitoring with Resource Performance Monitoring; Lab 9: Implementing CoS Features in the Enterprise

Schedule

Austria Vienna	23.09.-25.09.13	Frankfurt Hamburg	E 15.04.-17.04.13 21.10.-23.10.13	Switzerland Zurich	30.09.-02.10.13
Germany		Frankfurt	E 16.12.-18.12.13	E	Training in English

Junos Enterprise Switching (JEX)

ID JP-JEX **Duration** 2 days **Price** 1.390 EUR / 18 JTC (excl. VAT)

Free JNCIS-ENT (Juniper Networks Certified Internet Specialist Enterprise Routing & Switching) certification exam voucher included!

Course Outline

- Layer 2 Switching**
- » Ethernet Bridging Basics; Terminology & Design Considerations; Overview of Enterprise Switching Platforms; Enabling & Monitoring Layer 2 Switching Operations; Lab 1: Implementing Layer 2 Switching
- Virtual Networks**
- » Overview of VLANs; Configuring and Monitoring VLANs; Voice VLAN; Native VLAN; Routed VLAN Interfaces; Lab 2: Implementing Virtual Networks
- Spanning Tree**
- » Spanning Tree Protocol; Rapid Spanning Tree Protocol; Configuring & Monitoring STP & RSTP; Protection Features: BPDU Protection/

- Loop Protection/Root Protection; Lab 3: Implementing Spanning Tree
- Port Security**
- » MAC Limiting; DHCP Snooping; Dynamic ARP Inspection (DAI); IP Source Guard; Lab 4: Implementing Port Security
- Device Security and Firewall Filters**
- » Storm Control; Firewall Filters; Lab 5: Implementing Storm Control & Firewall Filters

- Virtual Chassis**
- » Overview of Virtual Chassis; Configuring and Monitoring a Virtual Chassis; Lab 6: Implementing Virtual Chassis Systems
- High Availability Features**
- » Overview of High Availability Networks; Link Aggregation Groups; Redundant Trunk Groups; Lab 7: Implementing High Availability Features

Schedule

Austria Vienna	01.08.-02.08.13	Berlin Switzerland Zurich	28.11.-29.11.13 19.09.-20.09.13	🌱 🌱 🌱	E 14.05.-15.05.13 11.06.-12.06.13 27.08.-28.08.13
Germany Stuttgart Hamburg Stuttgart	18.04.-19.04.13 20.06.-21.06.13 10.10.-11.10.13	Flex™ Classroom	E 15.04.-16.04.13 16.04.-17.04.13	🌱 🌱	E 01.10.-02.10.13 03.12.-04.12.13
					E Training in English

Juniper Advanced Junos Enterprise Switching (AJEX)

ID JP-AJEX **Duration** 2 days **Price** 1.390 EUR / 18 JTC (excl. VAT)

Free JNCIP-ENT (Juniper Networks Certified Internet Professional Enterprise Routing & Switching) certification exam voucher included!

Course Outline

- Advanced Ethernet Switching**
- » Virtual Local Area Networks; Automating VLAN Administration; Tunneling Layer 2 Traffic; Lab 1: Advanced Ethernet Switching
- Advanced Spanning Tree**
- » Spanning Tree Review; MSTP; VSTP; Lab 2: Advanced Spanning Tree
- Authentication and Access Control**
- » Authentication Overview; Access Control Features; Overview of Authentication Processing; Lab 3: Authentication and Access Control
- Deploying IP Telephony Features**
- » Deployment Scenarios; IP Telephony Features; Case Study: Deploying IP Telephony Features;

- Lab 4: Deploying IP Telephony Features
- Class of Service**
- » Class of Service Review; Processing and Feature Overview; Case Study: Implementing Class of Service; Lab 5: Class of Service
- Monitoring and Troubleshooting Layer 2 Networks**
- » Introduction to Monitoring & Troubleshooting; Monitoring and Troubleshooting Tools; Case Studies; Lab 6: Monitoring & Troubleshooting



Schedule

Austria Vienna	26.09.-27.09.13	Frankfurt Hamburg	E 18.04.-19.04.13 24.10.-25.10.13	Switzerland Zurich	03.10.-04.10.13
Germany		Hamburg	E 19.12.-20.12.13	E	Training in English

Service Provider Courses

Junos Service Provider Switching (JSPX)

Free JNCIS-SP
(Juniper Networks Certified
Internet Specialist Service
Provider Routing & Switching)
certification exam voucher
included!

ID JP-JSPX **Duration** 2 days **Price** 1.390 EUR / 18 JTC (excl. VAT)

Course Outline

Carrier Ethernet

- » Ethernet in the WAN; Ethernet Standards Organizations; MX Series Layer 2 Features

Ethernet Switching and Virtual LANs

- » Ethernet LANs; Bridging; Configuring and Monitoring VLANs; Automating VLAN Administration; Configuring and Monitoring IRB; Layer 2 Address Learning & Forwarding; Layer 2 Firewall Filtering; Lab 1: Ethernet Switching and VLANs

Virtual Switches

- » Routing Instances Overview; Configuring and Monitoring Virtual Switches; Interconnecting Routing Instances; Lab 2: Virtual Switches

Provider Bridging

- » Expanding the Bridged Network; Provider Bridging; Configuring and Monitoring Provider Bridging; Lab 3: Provider Bridging

Spanning-Tree Protocols

- » Overview of STP; Overview of RSTP; Overview of MSTP; Overview of VSTP; Configuring and Monitoring Spanning-Tree Protocols; Understanding BPDU, Loop, and Root Protection; Lab 4: MSTP

Ethernet OAM

- » OAM Overview; LFM; CFM; Configuring and Monitoring Ethernet OAM; Lab 5: Ethernet OAM

High Availability and Network Optimization

- » ERP Overview; Configuring and Monitoring ERP; LAG Overview; Configuring and Monitoring a LAG; Lab 6: High Availability and Network Optimization

Schedule

Austria		Germany		Switzerland	
Vienna	29.04.-30.04.13	Hamburg	22.07.-23.07.13	Zurich	04.04.-05.04.13
Vienna	30.09.-01.10.13	Duesseldorf	16.09.-17.09.13	Zurich	19.08.-20.08.13
		Frankfurt	25.11.-26.11.13		

Advanced Junos Service Provider Routing (AJSPR)

ID JP-AJSPR **Duration** 4 days **Price** 2.800 EUR / 36 JTC (excl. VAT)

Schedule

Austria		Germany		Switzerland	
Vienna	29.10.-01.11.13	Munich	09.04.-12.04.13	Zurich	10.09.-13.09.13
		Berlin	18.06.-21.06.13		E Training in English
		Frankfurt	19.11.-22.11.13		

Junos Class of Service (JCOS)

ID JP-JCOS **Duration** 2 days **Price** 1.390 EUR / 18 JTC (excl. VAT)

Schedule

Austria		Germany		Switzerland		Flex™ Classroom	
Vienna	04.11.-05.11.13	Munich	22.04.-23.04.13	Zurich	15.04.-16.04.13		E 02.09.-03.09.13
		Berlin	E 24.06.-25.06.13	Zurich	23.09.-24.09.13		E Training in English
		Frankfurt	25.11.-26.11.13				

Junos MPLS and VPNs (JMV)

ID JP-JMV **Duration** 5 days **Price** 3.490 EUR / 45 JTC (excl. VAT)

Schedule

Austria		Germany		Switzerland		E Training in English	
Vienna	16.09.-20.09.13	Munich	22.04.-26.04.13	Zurich	26.08.-30.08.13		
		Berlin	E 21.10.-25.10.13				
		Frankfurt	02.12.-06.12.13				

Junos Multicast Routing (JMR)

ID JP-JMR **Duration** 2 days **Price** 1.390 EUR / 18 JTC (excl. VAT)

Schedule

Austria		Germany		Switzerland		E Training in English	
Vienna	06.11.-07.11.13	Berlin	E 26.06.-27.06.13	Zurich	17.04.-18.04.13		
		Frankfurt	27.11.-28.11.13	Zurich	25.09.-26.09.13		

Free JNCIP-SP
(Juniper Networks Certified
Internet Professional Service
Provider Routing & Switching)
certification exam voucher
included!

Junos Troubleshooting in the NOC (JTNOG)

ID JP-JTNOG **Duration** 2 days **Price** 1.390 EUR / 18 JTC (excl. VAT)

Schedule

Austria		Germany		Switzerland	
Vienna	15.04.-16.04.13	Munich	09.09.-10.09.13	Zurich	13.05.-14.05.13
		Frankfurt	09.12.-10.12.13		

Security Courses

Junos Security (JSEC)

Free JNCIS-SEC
(Juniper Networks Certified
Internet Specialist Junos
Security) certification exam
voucher included!

ID JP-JSEC **Duration** 3 days **Price** 1.790 EUR / 23 JTC (excl. VAT)

Course Outline

Introduction to Junos security platforms

- » Traditional Routing; Traditional Security; Breaking the Tradition; Junos OS Architecture

Zones

- » Definition of Zones; Zone Configuration; Monitoring Security Zones; Lab 1: Configuring & Monitoring Zones

Security Policies

- » Overview of Security Policy; Policy Components; Verifying Policy Operation; Policy Scheduling & Rematching; Policy Case Study; Lab 2: Security Policies

Firewall User Authentication

- » Firewall User Authentication Overview; Pass-Through Authentication; Web Authentication; Client Groups; Using External Authentication Servers; Verifying Firewall User Authentication; Lab 3: Configuring Firewall Authentication

SCREEN Options

- » Multilayer Network Protection; Stages & Types of Attacks; Using Junos SCREEN Options: Reconnaissance Attack Handling, Denial of

Service Attack Handling, Suspicious Packets Attack Handling; Applying & Monitoring SCREEN Options; Lab 4: Implementing SCREEN Options

Network Address Translation

- » NAT Overview; Source NAT; Destination NAT; Static NAT; Proxy ARP; Monitoring & Verifying NAT Operation; Lab 5: NAT

IPsec VPNs

- » VPN Types; Secure VPN Requirements; IPsec Details; Configuration of IPsec VPNs; IPsec VPN Monitoring; Lab 6: Implementing IPsec VPNs

Intrusion Detection and Prevention

- » Introduction to Junos IDP; IDP Policy





Components and Configuration; Signature Database; Case Study: Applying the Recommended IDP Policy; Monitoring IDP Operation; Lab 7: Implementing IDP

High Availability Clustering

- » High Availability Overview; Chassis Cluster Components; Chassis Cluster Operation; Chassis Cluster Configuration; Chassis Cluster Monitoring; Lab 8: Implementing Chassis Clusters



Schedule

Austria Vienna	21.08.-23.08.13	Frankfurt Switzerland Zurich	E 13.11.-15.11.13 17.07.-19.07.13 11.12.-13.12.13	  	E 29.07.-31.07.13 E 09.09.-11.09.13 E 07.10.-09.10.13 E 02.12.-04.12.13
Germany Stuttgart	05.06.-07.06.13	Flex™ Classroom	E 11.09.-13.09.13		
Hamburg	17.07.-19.07.13		E 01.04.-03.04.13		
Duesseldorf	E 11.09.-13.09.13		E 27.05.-29.05.13		
Frankfurt	06.11.-08.11.13				E Training in English

Juniper Advanced Junos Security (AJSEC)

ID JP-AJSEC **Duration** 3 days **Price** 1.790 EUR / 23 JTC (excl. VAT)

Course Outline

Junos Security Review

- » Junos Security Components Overview and Selective Packet-Based Forwarding; Junos Layer 2 Packet Handling; Lab 1: Selective Forwarding

Security Policy Components

- » ALG Overview; Junos ALGs; Custom Application Definitions; Advanced Addressing; Policy Matching; Lab 2: Implementing Advanced Security Policy

Virtualization

- » Virtualization Overview; Routing Instances; Filter-Based Forwarding; Lab 3: Implementing Junos Virtual Routing

Advanced NAT Concepts

- » Operational Review; NAT: Beyond Layer 3 and Layer 4 Headers; Advanced NAT Scenarios;

Lab 4: Advanced NAT Implementations

High Availability Clustering

- » High Availability Overview; Chassis Clustering Implementations; Advanced HA Topics; Lab 5: Implementing Advanced High Availability Techniques

IPsec Implementations

- » Standard VPN Implementations Review; Public Key Infrastructure; Hub-and-Spoke VPNs; Lab 6: Hub-and-Spoke IPsec VPNs

Enterprise IPsec Technologies: Group and

Dynamic VPNs

- » Group VPN Overview; GDOI Protocol; Group

VPN Configuration and Monitoring; Dynamic VPN Overview; Dynamic VPN Implementation; Lab 7: Configuring Group VPNs

IPsec VPN Case Studies and Solutions

- » Routing over VPNs; IPsec with Overlapping Addresses; Dynamic Gateway IP Addresses; Enterprise VPN Deployment Tips and Tricks; Lab 8: OSPF over GRE over IPsec VPNs

Troubleshooting Junos Security

- » Troubleshooting Methodology; Troubleshooting Tools; Identifying IPsec Issues; Lab 9: Performing Security Troubleshooting Techniques

Schedule

Austria Vienna	19.08.-21.08.13	Hamburg Munich Frankfurt	01.07.-03.07.13 21.10.-23.10.13 09.12.-11.12.13	Switzerland Zurich	13.05.-15.05.13 02.12.-04.12.13
Germany Munich	13.05.-15.05.13				

Implementing Intrusion Detection & Prevention Products (IIDP)

ID JP-IIDP **Duration** 3 days **Price** 1.790 EUR / 23 JTC (excl. VAT)

Schedule

Austria Vienna	05.08.-07.08.13	Germany Duesseldorf	19.08.-21.08.13	Berlin	14.10.-16.10.13	Switzerland Zurich	04.11.-06.11.13
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Junos Unified Threat Management (JUTM)

Free JNCIS-SEC
(Juniper Networks Certified
Internet Specialist Junos
Security) certification exam
voucher included!

ID JP-JUTM **Duration** 1 day **Price** 690 EUR / 9 JTC (excl. VAT)

Course Outline

UTM Overview

- » Branch Office Challenges; UTM Feature Overview; Design Basics; Hardware Support; Licensing of Features; Lab 1: Connecting to the Lab Equipment and Testing Connectivity

Antispam

- » Antispam Terminology; Overview of Antispam Process; UTM Policy Overview; Configuration Steps; Monitoring Antispam; Lab 2: Configuring an Antispam Policy

Full File-Based and Express Antivirus

- » Antivirus Terminology; Overview of Antivirus Process; AV Operation; Full File-based AV Configuration; Express AV Configuration Monitoring AV; Lab 3: Antivirus Configuration & Testing

Content and Web Filtering

- » Overview & Terminology; Configuration; Verification & Monitoring; Lab 4: Configuring Content & Web Filtering



Schedule

Austria		Frankfurt	11.11.13
Vienna	26.08.13	Frankfurt	E 8.11.13
Germany		Switzerland	
Munich	10.06.13	Zurich	22.07.13
Hamburg	22.07.13	Zurich	16.12.13
Duesseldorf	E 16.09.13	E Training in English	

Junos Intrusion Prevention System Functionality (JIPS)

Free JNCIP-SEC
(Juniper Networks Certified
Internet Professional Junos
Security) certification exam
voucher included!

ID JP-JIPS **Duration** 2 days **Price** 1.390 EUR / 18 JTC (excl. VAT)

Course Outline

Overview of IPS Functionality

- » Reasons for Network Attacks; Categories of Attacks; Anatomy of an Attack; IPS Mechanisms on SRX Series Devices; Lab 1: Initial Configuration

Initial Device Configuration

- » Deployment Options for IPS Functionality; Management Options; Network Settings; Preparing the SRX Series Device for IPS Features; Lab 2: Initial IDP Setup

IPS Terminology and Concepts

- » Terminology Overview; Attack Objects; IPS Rulebase Details; Rule Match Conditions; Rule Actions; Terminal Rules; IP Actions; Notification; Terminology Review; IPS Traffic Flow; Lab 3: Examining and Modifying the Recommended Policy; Lab 4: Exempt Rulebase; Lab 5: Rule Actions

IPS Attack Objects

- » IPS Rules and Rulebases; Attack Objects; Custom Signatures; Lab 6: Custom Signatures

Scanning and Reconnaissance

- » Overview of Scanning; Types of Scans; Fingerprinting; IPS Scan Prevention

Blocking Evasion Techniques and Denial of Service

- » FIN Scans; IP Spoofing; IP Source Routing Options; DoS and DDoS Attacks; Mechanisms for Blocking DoS and DDoS; Lab 7: Detecting Evasion Attempts; Lab 8: Denial of Service

Reporting

- » NSM Reports; Junos Syslog and Operational Commands



Schedule

Austria		Munich	E 06.06.-07.06.13	Switzerland	
Vienna	22.08.-23.08.13	Hamburg	04.07.-05.07.13	Zurich	16.05.-17.05.13
Germany		Munich	24.10.-25.10.13	Zurich	05.12.-06.12.13
Frankfurt	E 11.04.-12.04.13	Frankfurt	12.12.-13.12.13		
Munich	16.05.-17.05.13	Frankfurt	E 19.12.-20.12.13	E Training in English	

Junos Pulse Courses

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Junos Pulse Secure Access (JPSA)

Free JNCIS-SA (Juniper
Networks Certified Internet
Specialist Junos Pulse Secure
Access) certification exam
voucher included!

ID JP-JPSA **Duration** 4 days **Price** 2.790 EUR / 36 JTC (excl. VAT)

Schedule

Austria		Germany		Hamburg	E 25.11.-28.11.13	Zurich	07.10.-10.10.13
Vienna	22.04.-25.04.13	Hamburg	13.05.-16.05.13	Berlin	02.12.-05.12.13	E Training in English	
Vienna	19.08.-22.08.13	Frankfurt	16.09.-19.09.13	Switzerland			

Junos Pulse Access Control (JPAC)

Free JNCIS-AC
(Juniper Networks Certified
Internet Specialist Junos Pulse
Access Control) certification
exam voucher included!

ID JP-JPAC **Duration** 3 days **Price** 1.790 EUR / 23 JTC (excl. VAT)

Schedule

Austria		Germany		Frankfurt	E 25.11.-27.11.13	Switzerland		E Training in English
Vienna	02.09.-04.09.13	Frankfurt	12.08.-14.08.13	Zurich	10.06.-12.06.1			

Firewall / VPN Courses

Advanced Juniper Networks IPSec VPN Implementation (AJVI)

ID JP-AJVI	Duration 2 days	Price 1.390 EUR / 18 JTC (excl. VAT)			
Schedule					
Austria		Germany		Switzerland	
Vienna	11.04.-12.04.13	Frankfurt	E 18.04.-19.04.13	Zurich	27.06.-28.06.13
Vienna	10.10.-11.10.13	Berlin	10.10.-11.10.13	E Training in English	



Attack Prevention with Juniper Networks Firewalls (APJF)

ID JP-APIF	Duration 1 day	Price 690 EUR / 9 JTC (excl. VAT)			
Schedule					
Austria		Germany		Switzerland	
Vienna	15.04.-15.04.13	Frankfurt	E 22.04.-22.04.13	Zurich	01.07.-01.07.13
Vienna	14.10.-14.10.13	Berlin	14.10.-14.10.13	E Training in English	



Free JNCIS-FWV (Juniper Networks Certified Internet Specialist Firewall/VPN) certification exam voucher included!

Configuring Juniper Networks Firewall/IPSec VPN Products (CJFV)

ID JP-CJFV	Duration 3 days	Price 1.790 EUR / 23 JTC (excl. VAT)			
Schedule					
Austria		Germany		Switzerland	
Vienna	29.07.-31.07.13	Frankfurt	22.04.-24.04.13	Zurich	13.05.-15.05.13
Vienna	18.11.-20.11.13	Duesseldorf	E 19.08.-21.08.13	Zurich	28.10.-30.10.13
		Frankfurt	25.11.-27.11.13	E Training in English	



Integrating Juniper Networks Firewalls and VPNs into High Performance Networks (IFVH)

ID JP-IFVH	Duration 3 days	Price 1.790 EUR / 23 JTC (excl. VAT)			
Schedule					
Austria		Germany		Switzerland	
Vienna	08.04.-10.04.13	Frankfurt	E 15.04.-17.04.13	Zurich	24.06.-26.06.13
Vienna	07.10.-09.10.13	Berlin	07.10.-09.10.13	E Training in English	

Network Management Courses

Network and Security Manager Fundamentals (NSMF)

ID JP-NSMF	Duration 2 days	Price 1.390 EUR / 18 JTC (excl. VAT)			
Schedule					
Austria		Germany		Switzerland	
Vienna	01.08.-02.08.13	Frankfurt	25.04.-26.04.13	Zurich	28.11.-29.11.13
Vienna	21.11.-22.11.13	Duesseldorf	E 22.08.-23.08.13	Zurich	31.10.-01.11.13
				Zurich	16.05.-17.05.13
				E Training in English	

Configuring Security Threat Response Manager (CSTRM)

ID JP-CSTRM	Duration 2 days	Price 1.390 EUR / 18 JTC (excl. VAT)			
Schedule					
Austria		Germany		Switzerland	
Vienna	01.07.-02.07.13	Duesseldorf	18.11.-19.11.13	Zurich	22.04.-23.04.13

Wireless Courses

Introduction to Juniper Networks Wireless LANs (IJWL)

ID JP-IJWL	Duration 4 days	Price 2.790 EUR / 36 JTC (excl. VAT)
Schedule		
Germany Munich	Hamburg	Switzerland Zurich
E 02.09.-05.09.13	E 11.11.-14.11.13	E 29.07.-01.08.13
E Training in English		

Advanced Juniper Networks Wireless LANs (AJWL)

ID JP-AJWL	Duration 4 days	Price 2.790 EUR / 36 JTC (excl. VAT)
Schedule		
Germany Munich	Hamburg	Switzerland Zurich
E 09.09.-12.09.13	E 18.11.-21.11.13	E 05.08.-08.08.13
E Training in English		

Free JNCIS-WLAN
(Juniper Networks Certified
Internet Specialist Wireless LAN)
certification exam voucher
included!

Junos Software Courses

Junos Automation (JAUT)

ID JP-JAUT	Duration 2 days	Price 1.390 EUR / 18 JTC (excl. VAT)
Schedule		
Austria Vienna	Germany Munich	Switzerland Zurich
15.07.-16.07.13	18.11.-19.11.13	03.06.-04.06.13

Junos Subscriber Management (JSM)

ID JP-JSM	Duration 3 days	Price 1.790 EUR / 23 JTC (excl. VAT)
Schedule		
Austria Vienna	Germany Duesseldorf	Switzerland Zurich
10.06.-12.06.13	07.10.-09.10.13	02.09.-04.09.13

Junos IP version 6 (J-IPV6)

ID JP-J-IPV6	Duration 2 days	Price 1.390 EUR / 18 JTC (excl. VAT)
Schedule		
Germany Stuttgart	Munich	
01.07.-02.07.13	09.12.-10.12.13	E Training in English
	Frankfurt	E 09.12.-10.12.13



Junos Space Courses

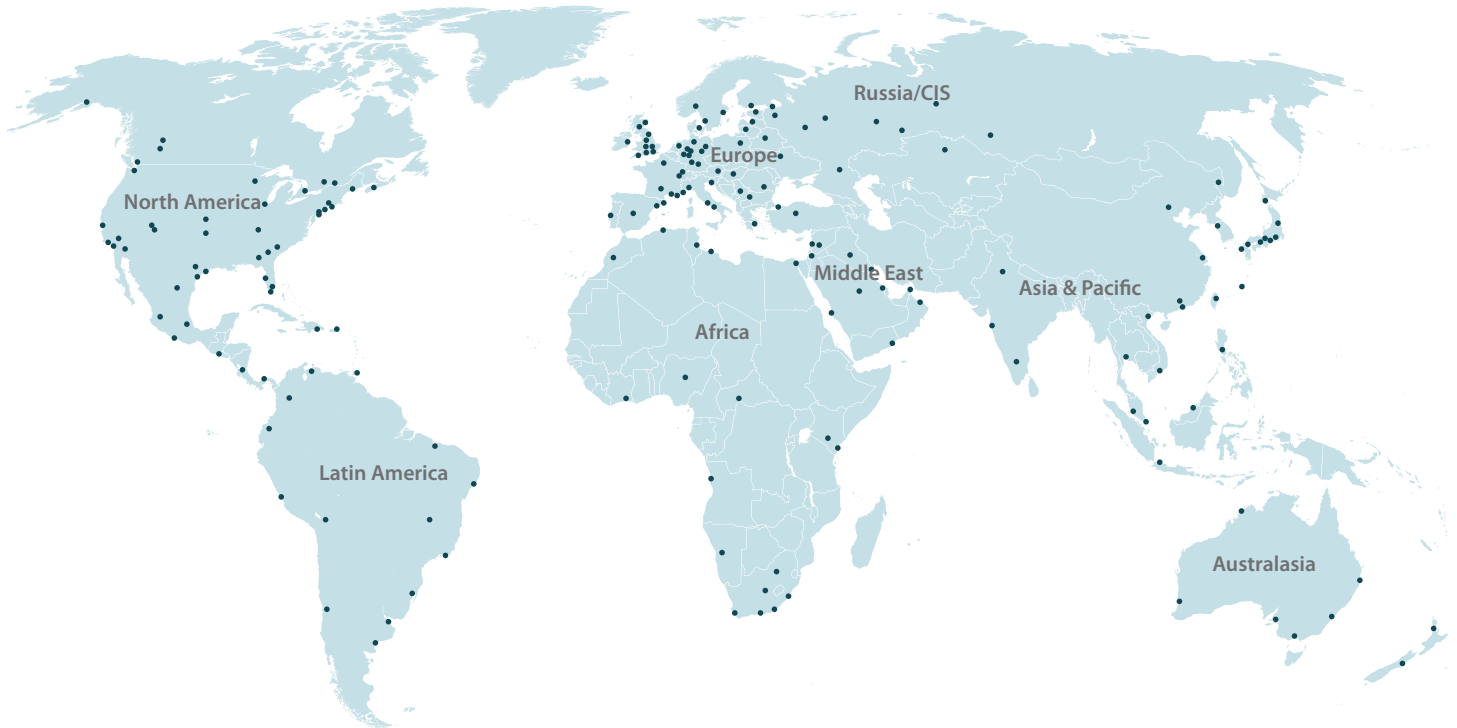
Junos Space (SPACE-W)

ID JP-SPACE-W	Duration 2 days	Price 1.390 EUR/18 JTC
Schedule		
Germany Stuttgart		
Munich	06.06.-07.06.13	
	05.12.-06.12.13	

Junos Space Essentials (JSE)

ID JP-JSE	Duration 2 days	Price 1.390 EUR/18 JTC (excl. VAT)
Schedule		
Germany Hamburg	18.04.-19.04.13	Flex™ Classroom
Stuttgart	19.12.-20.12.13	E 15.04.-16.04.13
		E 13.05.-14.05.13
		E 10.06.-11.06.13
		E 09.09.-10.09.13
E Training in English		

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INDC Headquarters

Europe

Institute for Networking & Data Center Technologies GmbH

Gasstrasse 4a
D - 22761 Hamburg
Germany
+49 (0)40 25 33 46 130
info@indc.de
www.indc.de

Americas

Institute for Networking & Data Center Technologies (INDC)

1800 Perimeter Park Suite 140
Morrisville, NC 27560
United States
+1 (0)919 459 0820
info@networking-institute.com
www.indc.com

Asia

Institute For Networking & Data Center Technologies Pte. Ltd. (INDC)

28-A Kandahar Street
198889 Singapore, Singapore
Phone: +65 6100 4632
Fax: +65 6294 1547
info@indc.asia
www.indc.sg