



Martin Voelk

Senior Network and Security Consultant – Cisco Trainer
Cisco Certified Internetwork Expert (CCIE # 13708)
Certified Cisco Systems Instructor (CCSI # 31274)
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Active IT Certifications

CCIE	Cisco Certified Internetwork Expert (CCIE # 13708)
CCSI	Certified Cisco Systems Instructor (CCSI # 31274)
INFOSEC	U.S. NSA Information Systems Security (INFOSEC) Professional
4011	4011 Recognition - National Security Agency (NSA) and CNSS
4013	4013 Recognition - National Security Agency (NSA) and CNSS
CQS	Cisco Information Security Specialist
CQS	Cisco Firewall Specialist
CQS	Cisco IPS (Intrusion Prevention System) Specialist
CQS	Cisco VPN Specialist
CQS	Cisco Network Admission Control Specialist (NAC)
CQS	Cisco Security Monitoring, Analysis and Response System Specialist (MARS)
CQS	Cisco Routing and Switching Field Specialist
CQS	Cisco Routing and Switching Solutions Specialist
CQS	Cisco Advanced Wireless LAN Field Specialist
CQS	Cisco Advanced Wireless LAN Design Specialist
CQS	Cisco Data Center Networking Infrastructure Support Specialist
CQS	Cisco Data Center Networking Infrastructure Design Specialist
CEH	U.S. EC Council Certified Ethical Hacker
CCSP	Cisco Certified Security Professional
CCIP	Cisco Certified Internetwork Professional
CCDP	Cisco Certified Design Professional
CCNP	Cisco Certified Network Professional
CCDA	Cisco Certified Design Associate
CCNA	Cisco Certified Network Associate (Routing & Switching)
CCNA	Cisco Certified Network Associate (Wireless)
MCP	Microsoft Certified Professional for WIN NT 4.0 Server

If you wish to check the validity of my current certifications with Cisco Systems, please e-mail me and I will initiate a certification report to be sent to you from Cisco directly.

Core Networking Skills

Networking Hardware

Routers: Cisco (IOS, CatOS), Juniper M-Series (JUNOS), Juniper E-Series (Former Unisphere ERX), Draytek, Linksys (now Cisco), Bintec, Netgear, Nortel Networks

Switches, Bridges, Hubs: Cisco Catalyst, Extreme Switches, HP-Switches

Load Balancers: Cisco CSS, F5 Networks (Big-IP), Foundry, Coyote Point

Application Orientated Networking (AON): Cisco ACE (Application Control Engine Module)

WAN Optimisation: Cisco WAAS, Riverbed Steelhead Appliances, Expand Networks Suite

Security / Firewalls

IPSec, VPNs, Cryptography, Key Management, AAA Model (RADIUS, TACACS+, Kerberos), Cisco CAR RADIUS Proxy, Cisco Authentication Proxy, Access Lists, IOS Firewall, 802.1x, IOS Security Features, DMZ set ups, CBAC, DoS and common threats prevention, Cisco IDS / IPS (Intrusion Detection / Prevention System), Cisco CSA, Cisco Works VMS IDS MC / Firewall MC, Certificate Authority (CA), PKI, Cisco Secure ACS Server, Cisco VPN Concentrator, Cisco ezvpn, Cisco PIX / ASA Firewall, VPN Client, Cisco Security Manager (CSM), Cisco MARS, Cisco NAC / CANAC, Netscreen Firewall, Astaro Firewall, Checkpoint / Nokia VPN-1/Firewall-1 NG, Linux IPTables.

Routing

Static Routing, RIPv1, RIPv2, RIPnG, IGRP, EIGRP, OSPF, IS-IS, BGPv4, ODR, GRE, MPLS, IPv6, Traffic Engineering, Policy Based Routing PBR, Route Filtering, Redistribution, Summarization

Switching & Bridging

Catalyst CatOS and IOS based Switches, VTP, STP, RSTP, Trunking, VLANs, Layer 3 Switches, Logical Etherchannels, Transparent Bridging, IRB, CRB, DLSW+, MLS

LAN

Media: Ethernet, FastEthernet, GigabitEthernet, FDDI, CDDI, Token Ring, ATM LAN Emulation

Network Analyzers: Ethereal, Paketyzer, Radcom, Etherpeek and others

Load Generators: Spirent Smart Bits, iperf, IPTraffic

WLAN (Wireless LAN)

Cisco Aironet APs and Bridges (350, 1010, 1100, 1200, 1300, 1400, 1500), 802.11a, 802.11b and 802.11g standards, WLAN antennas, RF site surveys, Cisco Wireless LAN Solution Engine (WLSE), Wireless L2/L3/Fast Roaming, WLAN Security ("WEP", WPA / 802.1x, EAP, PEAP, LEAP, TKIP), Cisco Wireless Mesh Networking, Cisco Unified Wireless Networks, WLAN controllers, Cisco Wireless Control System (WCS), WDS, Lightweight Access Points infrastructures (LWAPP), Cisco LBS, Cisco Service Selection Gateway (SSG) / SESM, Cognio Analyzer, Draytek APs, Netgear APs, Tropoz APs.

WAN

Leased lines 64k - 155Mb (PPP / HDLC), Channelized lines (E1 / T1 / E3 / T3), Fibre Optic Circuits up to OC-48 speed, Frame Relay, ATM, ISDN, xDSL, Load Balancing, Multi Homing, Satellite links

Various Features & Services

IOS and CatOS Features, HSRP, IRDP, NAT, SNMP, SYSLOG, NTP, DHCP, CDP, DNS, HTTP, TFTP and FTP Management, IPv6 test projects, RAS Solutions, Cisco CNR (DNS & DHCP server)

QoS (Quality of Service)

WRED, Queuing features, FRTP, CAR, RTP, MLS QoS, LLQ, Policy Based Routing, CBWFQ

Multicast

Implementations from large (ISP) to medium sized environments (Videostream over Multicast). Sparse-Mode, Dense-Mode, Sparse-Dense-Mode, IGMP, CGMP, Rendezvous Points.

VoIP (Voice over IP) / IPT (IP Telephony)

IP Telephony utilizing Cisco routers, FXS, FXO, Call Manager, QoS implementation

Network Monitoring and Management Systems

HP-Openview, Netcool Omnibus, IBM Tivoli Netview, IBM Tivoli Argus, IBM Tivoli NMC, Cisco NAM, Cisco Works Suite, Cisco SDM, Network Health, Concorde eHealth, MRTG, Cricket, Naigos

Ticketing Systems

Remedy ARS, Clarify, Impact, Infovista

ISP (Internet Service Provider) related

Registry Handling with RIPE, ARIN, AP-NIC, DNS handling with various NICs

Data (ATM & Frame Relay Tools)

Nortel NMS and Alcatel 5620 NM

Cisco Course Delivery Skills

As a fully Certified Cisco Systems Instructor (CCSI # 31274),
I am currently certified to teach the following Cisco classes:

Cisco Routing & Switching Courses / Cisco Sales Courses

ICND1, ICND2, BSCI, BCMSN, ISCW, ONT, DESGN, IPVSF, IPVSD, ARSFE, RSSSE, CFXFE, CFXSE, ARCH, SMB University (SMBU-RS, SMBU-UC, SMBU-SEC), Cisco Sales Expert (CSE)

Cisco Security Courses

SND, SNRS, IPS, HIPS, CSVPN, SNPA, CSM, NAC, CANAC, MARS, DDOS, CWENT, AIM, CSACS, SSSE, CSI, DPS, DVS, ASFE, DCCNA, BECSN

Cisco Catalyst 6k & Data Center Courses (Application Networking Service)

CAT6KS, CACSN, SEDCA, DCIFE, DCISE, WAAS, ACE, ACEOC, ACNS, CSSOC, AONOP, AONRFID, AONDEV, AONARC, IEBA, SCASB, FWSMOC, 6kSMI

Cisco Service Provider Courses

BGP, QOS, MPLS, GSR, CRS1, DMTXR, BBAGG, PRE2, BCMPL, AMPLS, XR12K, 7600

Cisco Wireless LAN Courses

CUWN, RANO, CWLF, CWLAT, AWLAT, AWFSS, WLSE, VOWLAN, IWSVD, IUWNE

Cisco IPTV Physical Security Courses

(CCTV, Cisco IPTV, Cisco IP cameras, Video Storage, IP Multicast)

Cisco CCIE Written Exam Preparation Courses

CCIE Routing & Switching, CCIE Security, CCIE Service Provider

Cisco CCIE Lab Exam Preparation Courses

CCIE Routing & Switching Bootcamp

Vendor Neutral Courses

Certified Ethical Hacker, Introduction to Penetration Testing, Advanced Penetration Testing

General IT Skills

Hardware

PC and Serverhardware, TTL and CMOS, PLD Chip Programming, Real Time Interrupt Programming

Software

MS-Office Package (Word, Excel, Powerpoint, Outlook etc.), Netscape Suite, MS-Frontpage, Adobe Photo Shop, Dream Weaver, Fireworks, Paint Shop, MS-Visio

Desktop Operating Systems

MS-DOS, DR-DOS, Windows 3.x, Windows 95/98/ME, Windows NT/2K/XP

Client / Server Architecture

Novell Fileserver, Novell Access System, Administration of Novell Networks (Netware)

Server - Multiuser / Multitasking Architecture

Unix file system, access system, VI editor, etc., Web-, Mail-, FTP-, TFTP- DNS-, MySQL Server Setup under Linux / Unix, Distributions: RedHat, SuSE, Free BSD and Solaris
Unix maintenance and System Administration

Server – Microsoft based

Setup, Operation and Maintenance of WIN NT 4.0, WIN 2K and WIN 2K3 Server

Programming Languages and Databases

Shell Scripts, C, C++, Assembler, Java, Javascript, HTML, Perl / CGI, PHP, MySQL databases

Professional Experience

October 2006 – present

Fast Lane, London, United Kingdom

Cisco Trainer / Senior Network Consultant

Delivering Cisco authorized training courses on behalf of Fast Lane. Teaching the full CCNA, CCNP, CCDP, CCIP, CCSP, CCIE R&S, Wireless and Advanced Services track. Course Development of Cisco Authorized Course Material. Network & Security Consultancy for clients and partners of FastLane. Design, Support, Implementation and Troubleshooting of highly complex Cisco based networks, VPNs and Load Balancing set ups (F5 and Coyote Point) as well large WLAN scenarios.

September 2006

Nil Data Communications, Lisbon, Portugal

Senior Security Consultant

Complete Firewall migration from Cisco Works VMS Firewall MC to Cisco Security Manager (CSM). Setting up virtual VMWare lab machines in order to test before migrating to the live system. Migrating thousands of network objects, services, service groups, NAT translation rules, firewall rules etc. to the CSM. Fine tuning the CSM and customer handover.

January 2005 – August 2006

Motorola, Swindon, Wiltshire, United Kingdom

Senior Network / Security Consultant

Re-design of Motorola's internal UK core network. Migrating from EIGRP and RIPv2 routing protocols to an OSPF multiple area network design. Interconnect through BGP to the other existing departments. Upgrade from 3550 series switches to Cisco 6509 Catalysts. Design, implementation and support of the core network (Spanning tree re-design, Trunking, VLAN setup). 3rd. level support for both LAN (Gigabit Ethernet) and WAN mainly consisting of Frame-Relay and ATM circuits. Fault finding by means of sniffers such as Ethereal and Packetyzer.

Responsible for the overall network security including Intrusion Detection Systems (IDS), Cisco PIX Firewalls, Checkpoint FireWall-1 NG Firewalls, Cisco ACS Servers and VPNs. Building a Cisco based IDS solution from nothing. 3rd. level support and performance management for the entire network. Support and maintenance of Cisco SSG, Cisco SESM, Cisco CNR, Cisco CAR, Cisco CSS Load Balancers and Cisco WLSE. Perl- and Shell script development in order to automate daily backup and monitoring tasks. Design, implementation and rollout of special event WLAN hotspot solutions. Implementation of roaming partners.

Core network redesign to move from IOS Access Points to an LWAPP based centralized solution. Teaching in-house Cisco courses (CCNA, CCNP, IPv6, WLAN) to internal departments. Internal security audits and penetration tests on small to large networks in order to tighten up network security utilizing the following toolsets: IPScanner, Immunity Canvas, Metasploit, NMAP, Nessus, ISS Internet Scanner, GFILANGuard NSS, Cisco Security Scanner, N-Stealth Scanner, CyberCop Scanner, Ettercap, Etherape and Linux Live Security CDs such as "The Auditor", "PHLAK", "iWHAX", "BOSS", "BackTrack" and others.

October 2004 – December 2004

LAN Solutions, Reading, Berkshire, United Kingdom

Cisco Trainer / Senior Network Consultant

Delivering CCNA, CCNP, CCIE and IPv6 training courses to various clients. Security audits and penetration tests for some of England's most known online bookmakers. Making recommendations on how to close discovered security holes. Wireless LAN security assessments. Securing Wireless LAN with WPA (Wifi Protected Access) and AES. On-site consulting for clients on Cisco based network designs and configurations.

Design of a highly redundant WLAN core network. Recommendation on suitable products, configuration and maintenance work on both Cisco kit as well as on Unix Server components. Development of automatic maintenance and monitoring systems. Setting up "CA" and "pre-shared key" based site-to-site VPNs to ensure secure communication. Implementing QoS requirements in

co-operation with local carriers. Design and implementation of special temporary WLAN hotspots. VoIP and WLAN rollout projects.

April 2003 – September 2004

Hypo Vereins Bank Information Systems, Munich, Germany (04/2003 – 09/2004)

Senior Network Consultant / Project Manager

Consultancy for the HVB Treasury Investment bank. Meeting tight deadlines and taking proactive measures in order to guarantee optimal network performance for market traders. Time critical network support and troubleshooting under pressure. Network, performance and security audits by means of cutting edge technologies. Migration and Re-Design of external customer Banks networks to latest technologies in terms of design, hardware and software. Personal on-site consulting for customer banks of HVB Info (such as the investment bank HVB Treasury, Bethmann Maffei Bank, DAB Bank, Noris Bank and others). Operation and Re-Design of the international WAN. Design, rollout and operation of one of the world's largest VPNs connecting 2 core sites to around 800 branch offices.

Project Manager for the "Backup of 800 branch offices" project. Conception, Design, lab pilot tests and rollout of Backup solutions including ISDN, channelized E1 bundles, redundant ATM- and Frame Relay PVCs as well as satellite links to different ISPs. 3rd. level troubleshooting support for the complete network (LAN and WAN) including complex technologies such as Cisco's CSS or F5 Network's BigIP. Using protocol analyzers to locate application specific network problems. Responsible for TCP/IP to X.25 converting systems running Linux on top. Setup and maintenance of DNS Systems. Maintenance and further development of internal monitoring tools. Migrating all services from ATM LANE to Gigabit Ethernet technology. Evaluation of new hardware or new technologies in a high end lab environment. Making recommendations on where and how to use the evaluated equipment or tool.

Dense-mode Multicast design and rollout over new Gigabit topologies to grant video on demand services for employees. Security Consultant of Wireless LAN pilot project. Selection of suitable RADIUS servers and protocols to achieve the best solution. Testing Cisco wireless IP Phones. Maintaining Cisco's Wireless LAN Solution Engine and the Microsoft Radius / CA Server. Conducting site surveys. Mentoring internal workshops such as IPv6, WLAN and VoIP to colleagues. Arrange meetings with external providers and carriers to evaluate performance and SLAs. Open and manage Cisco Service-Requests (TAC) and attend regular telephone conferences w/ Cisco Systems.

March 2003

Networkers International PLC, Singapore

Senior Network Engineer

Short rollout contract role. Configuring Routers, Switches, VPN Concentrators and PIX Firewalls. Inter connecting various client sites through VPNs. Carrying out function- and performance tests. Configuration of multi-homed backup solutions. Failover tests.

September 2001 – March 2003

Cable & Wireless, Munich, Germany

Senior Network Engineer

Support, maintenance, upgrades, new installations and troubleshooting on the core networks consisting of both Cisco and Juniper routers running OSPF, IS-IS, BGP and MPLS. Migration of other ISPs with all services into the C&W network. Installation of new POPs and NCPs. Design, Re-Design, implementation and rollout of customer networks. Development and consultancy of customized end-to-end solutions for customers. Supporting various implementations of special and complex customer set ups. Delivering both English and German CCNA certification and other networking courses to colleagues and the provisioning department as needed.

Registration of domains with NICs, administration, documentation and troubleshooting of domain processes, maintaining customer NIC contracts. Supporting the domain robot. Maintaining, updating and troubleshooting the company's DNS servers. Occasional Team Leader replacement (Vice Team Lead). Responsibilities: Assigning tasks within the shift team, supervision, escalation procedures, reports to the management and performance management

August 2001

Telcel Telecomunicaciones, Guadalajara, México
Senior Network Engineer

4 weeks contract role for Mexico's biggest ISP. Establishing a new BGP Internet Exchange utilizing both Cisco and Juniper components. Configuring all devices from the scratch. Interaction with some 10 other service providers. Carrying out tests and fine tuning the new setup.

September 1999 – July 2001

The Educational Department of the County Bavaria, Munich, Germany
Network Engineer

Long term hands-on study-related project at the technical college in Munich. Sub-netting and IP addressing, configuring Cisco Routers, Switches, PIX Firewalls for hundreds of schools in the Munich area. Goal was to provide all schools with internet access and to build up a centralised management for all networking components involved. Project was successfully finished in summer of 2001.

June 1999 – August 1999

National Australia Bank, Sydney, New South Wales, Australia
Network Engineer

Contract role with leading bank in Australia. Fault management and support of the IT department. Daily tasks included: Maintenance on network and server components, troubleshooting, user support, call and trouble ticket management as well as on-site field engineer tasks.

February 1997 – May 1999

German Railways Group, Munich, Germany
Systems Engineer

Systems Engineer in the electronics central workshop of German Railways Group. Server and Network Administrator of a WIN NT 4.0 LAN. Installation, User Support, Upgrades, Maintenance and Troubleshooting. Securing the network from internal and external threats.

Freelance Consulting Work

Network / IT Consulting work with the following clients (Project scale 1 day – 3 months)

LAN Solutions Ltd. (United Kingdom), Singtel Telecom (Singapore), März Network Services (Germany), The Hilton Hotel Group (Mexico), Banco Central de Costa Rica (Costa Rica), Cityfinc Corporation (USA), The State of Peru (Peru), CanTV (Venezuela), Webinvest (Russia), Telcel (Mexico), WalMart (USA), Sysplain (Germany), TPN The Public Network AG (Switzerland), SecureTronix (United Kingdom), Network Angels (United Kingdom), SDA Partnership (United Kingdom), Nil Data Communications (Slovenia), Universidad de Manizales (Colombia), Repton (UK), Intergence (UK), Coleman Research Group (USA), Think Equity (USA), NetDefense (UK) and others.

Education

College

State Certified IT-Technician (equals U.S. Bachelors Degree in Computer Science)
Technical College, Munich, Germany (09/1999 - 07/2001)
Final exam grade: good

Vocational Training

Vocational Training as an Energy Electronics Engineer
German Railways Group, Munich, Germany (09/1993 - 02/1997)
Final exam grade: good

School

Secondary modern school
Successfully graduated in summer 1993

Courses, Seminars and Study Projects

At the Technical College in Munich, Germany

- TCP/IP Networking (Course)
- The UNIX Operating System (Course)
- Creation of an English version of the college's UNIX course (Project)
- Internet Programming in HTML und Perl (Course)
- The Checkpoint Firewall (Course)
- Measurement of the aggregate bandwidth of the campus network (Project)
- Setup, Integration and Operation of a communication server on the Internet (Project)
- The Parallel Port (Project)

At Cisco Systems, Hallbergmoos, Germany

- Building Core Networks with OSPF, BGP and MPLS Bootcamp

At HypoVereinsbank, Munich, Germany

- Introduction into Project Management

At the International Council of E-Commerce, New York, USA

- 1 week intensive CEH (Certified Ethical Hacker) training

Soft Skills

Communication Skills

My writing skills, both in German and English, are very good and I certainly am a clear speaker. Being comfortable speaking in front of an audience I can easily facilitate meetings and brainstorming sessions. I simply enjoy communicating with others.

Interpersonal Skills

As a friendly, polite person, with positive attitude I work well with others and in the past often have proven myself to deal with difficult situations in a careful and considerate manner.

Learning Skills

I have a high capacity for learning, pick up new skills and ideas quickly, and generally thrive on challenges. Enthusiasm and creativity give me an edge on difficult projects.

Problem Solving Skills

My analytical skills help me troubleshoot problems and uncover root causes. I am creative and tenacious.

Languages

German	(Mother tongue)
English	(Excellent skills)
Spanish	(Basic skills)

Personal

Citizenship:	German
Current Location:	Guildford, Surrey, United Kingdom
Hobbies:	Travelling, Latin Music, Sports, IT in General