
Kimmo Suominen

Espoo
Finland

kimmo@suominen.com

Job Objective

Team leader or hands-on group manager in network and systems design and implementation.

Professional Experience

**Vice President
Network Infrastructure**
2001 to 2005

Commerzbank Capital Markets Corporation (CCMC)

New York, NY

CCMC is a wholly owned registered broker-dealer of Commerzbank AG, trading, selling and structuring bonds and equities.

- Automated network connectivity fail-over using a combination of dynamic routing and layer 2 redundancy techniques, completely replacing manual fail-over procedures.
- Established centralized logging, log monitoring and reporting, and availability, bandwidth and service level monitoring for all network infrastructure.
- Implemented a centrally managed authentication service using replicated RSA SecurID and RADIUS servers.
- Migrated to a unified 3-layer Internet firewall that supports transparent use of multiple incoming and outgoing access paths for added capacity and fail-over.
- Redesigned market data connectivity to address several problems:
 - Improved CPU utilization over 70% by reconfiguring IOS features.
 - Implemented a packet-filtering firewall for added security.
 - Designed transparent multi-site fail-over.
- Enhanced Disaster Recovery environment to provide constant service to support use as a Business Continuity Center that can also augment normal production capacity.
- Established a web-based document authoring system encouraging regular documentation updates. The system was also adopted by technical groups at other Commerzbank offices.
- Provided technical review for overall architecture and especially for network connectivity and security issues for both internal and vendor-proposed applications.
- Managed and handled day-to-day operational activities for network and data center infrastructure (problem resolution, capacity management, planning, vendor relations).

Network Strategist
2000 to 2001

Blink.com, Inc.

New York, NY

Blink created a smarter Internet through its interactive community where members could access and share their bookmarks from any wired or wireless Internet-enabled device.

- Migrated to a global VPN structure that provides secure and resilient connectivity.
- Implemented a transparent fail-over scheme for Internet connectivity, first at application level and later also at transport level using dynamic routing.
- Established network traffic and route monitoring.
- Reconfigured e-mail delivery to utilize multiple redundant systems for high availability.
- Implemented a fully automated custom installation of Red Hat Linux.
- Migrated the office workstations to a uniform Windows 2000 environment.
- Developed documented routines for maintaining the computing environments.

(Continued)

Professional Experience (continued)

Network Operations Manager
Manager of Systems
Systems Programmer
1993 to 2000

Juno Online Services, Inc.
D. E. Shaw & Co., L.P.

New York, NY

Juno was a leading provider of Internet online services in the United States. It was the largest technology venture investment to date by the D. E. Shaw group.

- Designed and implemented a multiple autonomous system network that provides a high level of redundancy, extended control of traffic flows and complete support for VLSM.
- Developed a configuration library for Cisco IOS to unify router configurations.
- Managed the Systems department supporting the office and development environments.
- Designed the beta test system and expanded it into a scalable production environment.
- Configured LANs, leased lines, CSU/DSU hardware and channel banks.
- Provided primary support for standards conformance of proprietary e-mail software.
- Drafted and implemented security measures and policies.
- Developed telecommuting solutions (secure access via ISPs, analog and ISDN dialup).
- Evaluated VoIP solutions for replacing a traditional PBX/Voicemail system.
- Provided second-level support and participated in UNIX system maintenance.

D. E. Shaw & Co., L.P., is a global securities and investment firm whose activities center on various aspects of the intersection between technology and finance.

- Maintained and expanded local and wide area networks.
- Designed a global dynamic routing policy with automatic connectivity fail-over.
- Designed and installed several remote stand-alone and office systems.
- Developed and supported telecommuting solutions over analog lines and ISDN.
- Evaluated and enhanced open source software to provide desired functionality.
- Wrote tools for UNIX system maintenance and support tasks.
- Provided primary support for electronic mail and Usenet News.
- Provided system support for trading application environments.

Freelance Systems Analyst
1991 to 1992
Senior Systems Analyst
1988 to 1991

Lappeenranta University of Technology, Computing Centre

Lappeenranta, Finland

- Designed and coordinated the integration of various UNIX platforms to a uniform system extensively using services on the local area network.
- Planned the use of applications in a networked multi-vendor environment.
- Installed and managed HP-UX systems (HP9000 Series 800, 700 and 300).
- Ported open source software for UNIX systems.
- Supported users on UNIX, VMS, ConvexOS, Apollo DomainOS and MPE.

Education

B.S. equivalent, Information Technology

Lappeenranta University of Technology, Lappeenranta, Finland

Studies include a one year scholarship in the Master of Science program of the Department of Computer and Information Sciences at the University of Delaware, Newark, DE.

Related Interests

NetBSD Developer I was sponsored and approved for developer access to the NetBSD code repository in 1998. I selected NetBSD as my operating system in 1994. Access to source code allowed me to properly and permanently fix problems in the operating system. NetBSD also has extensive multiplatform support, and my current network includes arm32, i386 and sparc machines. Earlier UNIX-like operating systems I have run include Dell SVR4 and ISC.

Open Source Software When I started working on UNIX systems I very soon was introduced to the concept of Open Source (or Public Domain). I am a strong supporter of the concept, and have contributed to numerous efforts over the Internet. I have actively participated in developing several commonly used pieces of software (e.g. BIND since 1993, Sendmail 1990-1998, Emacs 1989-1995).

Key Words

Languages ***Finnish:*** Native. ***English:*** Excellent. ***Swedish:*** Good. ***German:*** Basics.

Networking ***Hardware:*** Cisco (series 7500, 7200, 6500, 5500, 4700, 3600, 3550, 2900, 2600, 2500, 1900, 1000), IOS 10-12. Extreme Networks. Bay Networks. Wellfleet. Intel Shiva. Netopia. Xylogics Annex. Ascend. Netgear. 3Com. Allied Telesyn. Xylan. Chipcom. MorningStar. Adtran. Larscom. ***Routing:*** BGP4+. OSPF. RIP. EIGRP. PIM. IGMP. RPSL. MHSRP. ***Transport:*** IPv4. IPv6. AppleTalk. IPX. X.25. ***Link:*** HDLC. PPP. Frame Relay. ATM. CDMA. ***Media:*** Ethernet (1000BaseSX, 1000BaseTX, 100BaseTX, 10BaseT). DS-3. T-1. DS-0. Wireless LAN (IEEE 802.11a, IEEE 802.11b, Symphony). DSL. ISDN. Dialup. ***Services:*** DNS. NIS. DHCP. BOOTP. NFS. SMTP. NNTP. HTTP. SNMP. RADIUS. IPsec. Kerberos 5. Kerberos IV. RSA SecurID. ***Firewalls:*** IP-Filter. IOS/FW/IDS (CBAC). Check Point FW-1. IP Chains.

UNIX ***Systems:*** NetBSD. Linux (Red Hat, Debian). Solaris. SunOS 4. HP-UX (3.10-10.20). Digital Unix. IRIX. SCO. Dell SVR4. Apollo DomainOS. ConvexOS. ***Software:*** BIND. IP-Filter. Postfix. Sendmail. Cyrus. Procmail. Apache. C-News/NNTP. Zebra. GateD. IRRd. UUCP. AMD. AutoFS. Automount. Samba. MMDF. CVS. RCS. Kick-Start. X11. Amanda.

Other Systems Windows XP/2000/NT/98/95. Vax/VMS. DOS. MPE. VM/SP. PDP-11/RSX.

Programming Shell Programming (e.g. sh, awk, sed, make, m4). Perl. PHP. Tcl. C. C++.