

# Michael Neuffer

## Competences

**Michael Neuffer**  
Senior System Engineer  
German citizen,  
born: 15.04.1971

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Germany  
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**focus:** Murex, UNIX and storage design and administration.  
Design and implementation of business critical infrastructure.

**studies:** Commercial Information Technology, University of Koblenz

**languages:** German (native), English

**memberships:** IEEE, USENIX, LOPSA

**skills** (overview): **Operating Systems:**  
Administrative proficiency with:  
Debian GNU/Linux (AMD64, x86, Alpha, SPARC, ARM) , Solaris 2.x - 8.x (SPARC)  
Administrative familiarity with:  
Solaris 2.x (x86), Solaris 1.x/10 (Sparc), Irix 5.x/6.x, FreeBSD, NetBSD,  
MS-DOS, Windows 7/8/10, DEC Tru64, RedHat Linux, SuSE Linux, Mac OSX

### **Computer Languages:**

Proficiency with:  
bash/ksh/sh, SQL, C, make, Perl  
Familiarity with:  
PHP, JavaScript, Modula-2, Pascal, Lisp, X86-Assembler,  
MIPS-Assembler, m68k-Assembler, Z80-Assembler

### **Platforms:**

SUN E10000, E6800, E6500, E6000, E4500, E4000, E3500, E3000,  
E450, E420, E220, V880, Ultra 60, Ultra 30, Ultra 10, Ultra 5, Ultra 2, Ultra 1, 1000E, Sparc 20, Sparc 10, SUN ELC, Sparc Classic,  
Fujitsu Prime Power 650,  
Siemens RM200, RM400, RM600  
DEC Multia,

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## Competences

SGI Indy, Indigo, Indigo2, Origin, PowerChallenge

### **Peripheral Storage Hardware:**

Exabyte tapes ; DDS2/3/4 tapes ; DLT tapes; MO disks; CD-R/RW disks; Various autochangers and jukeboxes; RAID systems

### **Tools:**

Sun Solstice Backup, SunNet Manager, CMU SNMP, UCD SNMP, BigBrother Network Monitor, Veritas Filesystem, ComFax, Asterisk, AutoSys, Tivoli Workload Scheduler (TWS), Automic UC4 DataSynapse GridServer,

### **Databases:**

SAP/Sybase ASE, Oracle, PostgreSQL, MySQL

### **Storage Protocols:**

SCSI, FC, iSCSI

### **SAN/NAS Hardware:**

Brocade Silkworm 12000, 3800, 2800, RaidTec SNAS FC, Gadzoox Cappellix 3000

### **Networking Protocols and Technologies:**

IPv4/v6; IPX; AppleTalk; NetBIOS  
Ethernet/FastEthernet/GigabitEthernet, ISDN, TokenRing,  
IEEE 802.11a/b/g/n/ac Wireless LAN, V.90 Data Modem

### **Networking Hardware:**

Cisco 800, 1600, 2500 series routers; Livingston Portmaster; Allied Telesyn CentreCom hubs and switches

### **Networking Services:**

DHCP; DNS; NFS; AppleTalk File Sharing Protocol; SMB/CIFS; NIS/NIS+; SNMP; SMTP; LDAP; RADIUS

### **Networking Service Implementations:**

Linux Packet Filter und TIS FWTK Firewalls; NetAtalk AppleTalk Package; Samba; Apache, Roxen; UoWashington IMAP Server; UoWashington und Qualcomm POP Server; Dovecot IMAP Server;

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## Competences

postfix, qmail und sendmail SMTP Server; Cistron und Livingston  
RADIUS Server; ISC Bind DNS Server; ISC DHCP Server, Checkmk

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### Projects:

11/2018

- 07/2022 **Murex 3.1 Infrastructure and Operations Outsourcing Project / Murex 2.11 - 3.1 Migration, Infrastructure, Environment Management**

Design a new architecture based on RHEL 7/Intel, define operations and HW requirements and setup (Linux, Sybase, UC4/Automic).

Define, implement and run the Murex MX3.1 environment management including automatic rollouts. Support and debug problems of developers in other project streams. Monitoring with checkmk. Train and lead the OPS team. Murex 3.1.44.17b

**Environment:** Helaba, Frankfurt

**Role: Senior Murex & Infrastructure Consultant / Architect, OPS Teamlead**

12/2017 **Automatic Mail Server Configuration Project**

- today

10/2016 **Murex 2.11 - 3.1 Migration, Infrastructure, Environment &**

- 11/2017 **Configuration Management Stream Lead**

Design and develop a new architecture based on RHEL 6.8/Intel;

Design and develop tools to template and setup Murex Test environments; Interface with various teams (Linux, Oracle, UC4/Automic administration), define requirements and setup; Build essential tools.

Support Drop-0 /1 and 2 phases, Go-Live and After Care.

**Environment:** Large Corporate, Munich

**Role: Infrastructure, Environment & Configuration Management Stream Lead**

11/2006 **Murex and Unix Architecture, Performance tuning and Murex**

- 09/2016 **support**

Upgrades: Oracle 9.2i to 10g to 11g, Murex 2.11.18 to 2.11.34 to

2.11.44, MLC 1.5.2 to 1.5.4. Murex COM Module implementation;

Performance tuning of the MxG2000 2.11 - Oracle implementation;

Performance tuning of the MDCl and MLC; Development of various purge procedures; improve, stabilize and tune EOD; Report development and performance tuning of all reports; Accounting support, RTI support,

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## Competences

General production and EOD support and development.

**Environment:** Siemens AG, Munich

**Role:** Murex Technical Analyst, architect, developer, support

### 04/2006 **Murex SME, Architecture and Design, Troubleshooter**

- 10/2006 Implementation of a Murex 2.11 FX prototype for FO, BO and Risk Control including Murex Limit Controller (MLC), Actuate reports and realtime marketdata. Design and implementation of an online deal feed from EBS to Murex. Support and debugging of the deal migration from legacy systems (Fenics, Tomcat,...). Performance tuning of the Murex Installation and the Sybase servers.

**Environment:** Aozora Bank, Tokyo, Japan

**Role:** Murex SME, Analyst, Consultant, Troubleshooter

### 05/2003 **Murex support, Murex and Unix infrastructure design and**

#### - 03/2006 **implementation**

MXG2000 upgrades from 2.9 to 2.10 to 2.11. Implementation of Bonds, ABS and Schuldscheindarlehen (promissory notes), static data interface and price feed for Bonds, ABS and SS. Day-to-day Murex support (2<sup>nd</sup> & 3<sup>rd</sup> level) for FO, BO Risk Control and Accounting users. RTI support, MxML support, OLK support, development of reports (Mreport) and interfaces, various cleanups and trade purges. Unix, Sybase & Murex performance tuning and development of various tools and infrastructure improvements. Migration of production and development infrastructure from London to Frankfurt, EOD support, EOD migration to TWS. Migration Sybase 12.0 to Sybase 12.5.3 (64bit, 4k pages), Operation and maintenance of various Murex environments (production, test/development, integration), housekeeping.

**Environment:** Helaba Frankfurt

**Role:** Technical Analyst, architect, administrator, developer, support

### 08/2002 **Murex support and report development**

- 5/2003 MX Rates 1.17.x, MXG2000 2.9 & 2.10, development of interfaces and reports. Performance tuning of the Murex Application and Sybase Database. Development of various tools.

**Environment:** DZ Bank Frankfurt

**Role:** developer

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## Competences

### 04/2002 **iSCSI and WLAN R&D**

- 07/2002 Research on iSCSI and WIFI development for ScioByte enterprise solutions

**Environment:** ScioByte, midsize IT consulting house

**Role:** CTO, managing partner, senior developer

### 03/2002 **Brocade Training / Testing**

Hands-On Training on SilkWorm 12000. Testing/validation of new internal firmware releases, rebuilding/simulating the NASDAQ SAN infrastructure.

**Environment:** Brocade HQ, San Jose

**Role:** Student/Tester

### 11/1997 **Murex system support and infrastructure design**

- 03/2002 Murex Currency, Derivatives, MXG2000 2.8, SimPlus, SimBonds; System architect, performance tuning of the whole system – storage, OS, database, interfaces, overnight report batches etc.; migration over several hardware, OS DB and Murex generations: Sparc10-E10000, Solaris 2.5.1-8, Sybase 11.0.3.3-12.0.0.1 and Murex releases: 1.15-1.16-1.17-MXG2000 2.8; xBASE to Sybase database backend migration on Murex Currency and Murex Equity; EOD procedure automation; specification, development and maintenance of the infrastructure surrounding the Murex installations and their interfaces to systems like Gloss, Devon, Swift, Computron etc.; support for incoming and outgoing trade feeds via OLK; overnight support; technical application support; front-, middle- and backoffice user support; production responsibility. '97-March '98 single-handed support of all Murex installations alone with just one developer on the Equity side and one developer on the Currency side to help out on business issues. From Q2 1998 on development of a 10+ support and development team. During this period the team managed by me was directly assigned to the department head.

**Environment:** Commerzbank & Commerz Financial Products (CFP)

**Role:** Technical Analyst, senior system engineer, team leader

### 01/1998 **Infrastructure Design**

- 06/1999 Design of a large SUN E10000 based infrastructure according to

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## Competences

“Mindestanforderungen an das Betreiben von Handelsgeschäften der Kreditinstitute“ (MaH) requirements

**Environment:** Commerzbank

**Role:** senior system engineer

### 08/1997 **UNIX System and Summit Application Administrator**

- 12/1997 High availability design and implementation, performance tuning of the UNIX and Database system. Design and implementation of a high availability cluster for Summit and the Sybase server. Consulting for application interface programmers. Technical Summit support. End of Day support. Sybase Support.

**Environment:** Commerzbank

**Role:** Technical Analyst, senior administrator

### 07/1997 **UNIX and Network Consulting**

- 08/1997 Performance measurements and analysis of various infrastructure designs and development of recommendations for improvements.

**Environment:** Commerzbank

**Role:** Technical Analyst, consultant

### 05/1997 **Hardware Performance consulting**

Performance measurements and analysis of various infrastructure designs. Development of recommendations for improvements to allow the replacement of SGI Equipment by cheaper standard PCs based on Linux for the digital cut and display workstations.

**Environment:** Industrial Light and Magic

**Role:** consultant

### 06/1996 **Database engine development**

- 04/1997 Design and implementation of a database engine with HA clustering and data partitioning capabilities. Support for the Solaris, FreeBSD and Linux Operating Systems included the design and development of a Distributed Lock Manager and modified or new SCSI drivers and SCSI infrastructure.

**Environment:** Atlas Telecom, Key supplier of telecom industries

**Role:** designer, developer

### 01/1996 **Internet service providing consulting and maintenance**

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- 06/1997 UNIX and Database consulting; custom programming; design and implementation of the internal network; configuration and installation of various servers and services; email, DNS, FTP maintenance, WWW, file servers and login servers.

**Environment:** iConnect Inc.

**Role:** CTO

01/1996 **Debian**

- 06/1997 Hosting of the Debian GNU/Linux projects core infrastructure. Design, implementation and maintenance of its services (master FTP server, mail, mailing lists, DNS and Web) including the new maintainer process.

**Environment:** Debian / iConnect Inc.

**Role:** Debian Master Maintainer

10/1995 **Database application development**

- 03/1996 Development and support of a payroll management system in Gupta (Centura) SQL / Windows, development of course material for SQL training courses.

**Environment:** GodeSys, midsize IT consulting house

**Role:** programmer

1992 **Linux kernel programming**

- today **Mostly SCSI related work.**