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## Marc Heuse

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### About

Summary

- Active communication, team oriented, committed
- Quick grasp of complex interrelationships
- Goal oriented, pragmatic
- Responsible, thorough, accurate
- 25+ years of experience in IT security
- Experience in project management up to 300 MD
- Experience in team leading up to 6 people
- Security services quality certified with ISO 9001:2015
- TISAX 3.0 high security certification
- English and German (business fluent)

### Specialization

In-depth knowledge and decades long experience

IT security consultancy in the following areas:

- Security analysis and penetration testing of complex infrastructures (networks, proprietary applications, web applications, WLAN, PABX, etc.)
- Auditing (operating systems, network components, applications)
- Security analysis of source code and binary code (reverse engineering/binary disassembling)
- Fuzzing
- Threat modelling, policies and procedures (hardening guidelines, ISO 17799/2700x, IT-GSHB, ITIL) and risk management (ALE/EAL, CRAMM, etc.)
- Security trainings up to expert level (in the areas listed above)
- Expert special knowledge in automotive security (CAN, Flexray, LIN, BR-Ethernet, Autosar, SOME/IP, etc.)

### Areas of Expertise

- Network (firewall, router, switch, VPN, WAF, etc.)

- Unix (Linux, Solaris, AIX, HPUX, Mac OS X, FreeBSD, OpenBSD)
- Windows Server and Desktop
- Languages (Assembler, C, C++, Perl, PHP, Shell, Delphi, Pascal, Basic, Javascript, Java, Python, Tcl/Tk)
- Databases (Oracle, MS-SQL, Mysql)
- TCP/IP/IPv6 (incl. all standard and non-standard protocols)
- Standards (ISO 17799/BS 7799, ISO 27001++, ISO 13335, ISO 14971/EN 1441, IT Grundschutzhandbuch)
- Risk management and Threat Modelling

## Career

|                   |                                                              |                                       |
|-------------------|--------------------------------------------------------------|---------------------------------------|
| since 07/2007     | Independent IT-Security Consultant                           | Background in Consultancy and Banking |
| 07/2004 - 06/2007 | n.runs AG<br>IT-Security Team Leader                         |                                       |
| 01/2003 - 06/2004 | Unisys GmbH<br>Manager IT-Security Services                  |                                       |
| 01/1999 - 12/2002 | KPMG AG<br>Manager/Prokurist (statutory authority)           |                                       |
|                   | Leader IT-Security Services                                  |                                       |
| 09/1997 - 12/1998 | Deutsche Bank AG<br>Firewall Engineer                        |                                       |
| 07/1998 - 12/2006 | SuSE/Novell<br>Founder and Leader of the SuSE Security Teams |                                       |

## Industry Experience

- Automotive
- Banking
- Telecommunication
- Insurance
- Governmental

Wide industry experience

## Projects (extract)

- World leading car maker - complex security assessments of IT components in upcoming car generations; assessment of associated front and backend infrastructures
- UNO Institution - undercover penetration test including physical penetration
- Europe leading retailer - international security assessments (penetration tests and audits in Europe and

Wide and deep project experience

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Asia)

- European central bank - security expert for design and acceptance testing of the new central firewall infrastructure
- World leading telecommunication provider - security assessment of the new webmail system (webapp, SMTP, POP3, IMAP)
- Government - security assessment of the new firewall infrastructure (penetration testing, audit, process review)
- Several European central banks - security assessment of a central interconnection interface (network and applications)
- UNO Institution -ISO 27001++ readiness assessment

### Publications

- Heise Developer 03/20 - Prüfstand für Testwerkzeuge: Codeanalyse im Praxiseinsatz
- C't 11/13 and iX Sonderheft 4/13 - Sicherheitsüberprüfung von IPv6 Firewalls
- C't 16/11 - "Safer Six"
- Der Standard 01/2011 - "IPv6 ein Security Albtraum?"
- SuSE - Installation of a secure SuSE Linux Enterprise Server 8 and 9
- SuSE - Installation of a secure web server
- Computerwoche Extra 5/2001 - "Irgendwo ist immer eine Lücke"
- C't 26/00 - "Authentifizierung unter Linux mit PAM"

### Conference Presentations

- Keynote Speaker: HES 04/12, Paris; H2HC 10/2012, Brazil; PHDays III 05/2013 Moscow, Cybercamp 12/2014, Madrid; Mundo Hacker Day 04/2015, Madrid; Navaja Negra V 10/2015, Albacete
- The impact of compiler optimization and processors on code security: Heise SecDev 2017
- Heise IT-Security Conferences 2011 (Topics: IPv6 Security and DNSSEC)
- Hiding in Complexity: GSEC 10/2015, Singapore
- IPv6 Insecurity Revolutions: HITB 10/2012, Malaysia; H2HC 10/2012, Brazil; SecurityZone 12/12, Colombia
- IPv6 Security revisited: Deepsec 11/2010, Vienna; CCC Congress 12/2010, Berlin; IPv6 Congress 2011, Frankfurt
- IPv6 Security: Pacsec 11/2005, Tokyo; CCC Congress 12/2005, Berlin; Eusecwest 02/2006, London;

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Cansecwest 04/2006, Vancouver; Hack in the Box  
09/2006, Kuala Lumpur; Hack LU 10/2006, Luxemburg;  
VNSec 08/2007, Saigon

- Euroforum - Sicherheit 2003, 11/2003, Hamburg, Presentation "Gefahrenabschätzung durch Konsolidierung and Korrelation von Intrusion Detection"
- IDC - Security Conference 2003, 09/2003, Frankfurt, Presentation "IT-Sicherheit im Unternehmen dauerhaft messbar machen"
- Information Systems Security Society of the Philippines - Manila Security Convention, 05/2003, Manila/Philippines, Presentation "Global Intrusion Tracing"
- Fraunhofer Institut - CAST Forum, Topic "Secure Networks", 04/2003, Darmstadt, Presentation "Firewalls and Infrastrukturen"
- Fraunhofer Institut - CAST Forum, Topic "Secure Operating Systems", 04/2002, Darmstadt, Presentation "Sicheres Linux in 30 Minuten"
- Euroforum - 1. eSpionage Forum, 01/2002, Dusseldorf, Presentation "Wie Hacker sich unsichtbar machen"
- CCC Congress 1999, "Prüfung von Quellcode auf Schwachstellen"

and many more..

### Conference Organization and Lecturing

- Member of the Steering Committees of the DIMVA academic conference (Detection of Intrusions and Malware & Vulnerability Assessment - [www.dimva.org](http://www.dimva.org))
- Member of the program committee of DFN CERT, DIMVA, 44Con and Hackito Ergo Sum conferences
- Guest lecturer at the MCAST University in Malta for IT security (as part of a joint venture with the Fraunhofer Institute)