Thomas Hetschold (59) Senior Information Security Consultant CISSP-ISSMP PMP

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Qualification

Education:

- Diploma in Computer Science, J. W. Goethe-University, Frankfurt, Germany
- Certified Information Systems Security Professional
- Information Systems Security Management Professional
- Project Management Professional
- Cybersecurity Automotive Professional

Professional Know-how:

Automotive – 8,5 years

Coordination of Business Information Security Officers (Daimler/Mercedes-Benz Group)

Support in implementing a cybersecurity management system (Daimler Truck)

Creation of security profiles as information security architect (Daimler)

Support in implementing a tool-based cloud risk process (Daimler)

Conduct spot checks of cloud projects (Daimler)

Support in governing the cloud risk process (Daimler)

Design of an IT security policy for the automotive field (BMW)

Definition, implementation and operation of the Center of Competence Automotive Security (BMW)

Creation of a threat- and risk-analysis for the vehicle security architecture (BMW) Implementation of a secure SAP R/3 infrastructure (Volkswagen)

Aviation 10 years

Support of the internal IT security architects as part of the internal consulting and further development of security specifications (Lufthansa)
Implementation of Payment Card Industry Data Security Standards (Lufthansa)
Multiple successful re-certification per PCI DSS (Lufthansa)
Supporting the implementation of IT-security processes (Lufthansa)
Risk-analysis for IT systems that affect the aircraft (Lufthansa)
Concept for flight operations information security (Lufthansa)

Banking – 3 years

Development of security protocols for electronic business processes (Deutsche Bank, Dresdner Bank, Bank of America, ABN Amro)

Development of a security online banking protocol (Dresdner Bank)

Public administration – 2,5 years

Development of a threat analysis for automated driving (State of Baden-Württemberg)

Design of IT security concepts for the deployment of the German electronic health card (several health insurance companies)

Development of a purchase system according to German signature law (Federal State of Lower Saxony)

Development of security protocols for the deployment of the German Health Professional Card (ABDA)

Power – 1 year

Development of a system for the secure operation control in a nuclear power plant (RWE)

Implementation of a secure SAP R/3 infrastructure (RWE)

IT and Telecommunication – 8 years

Development of a product to secure SAP R/3 systems (SAP) Development of security products (Secude, Fillmore Labs)

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Skills

Development of access control in an OSI management platform according to X.741 (Deutsche Telekom)

Media – 1,5 years

Development of a digital rights management system for a peer to peer file sharing service (DWS/Bertelsmann)

Transport – 0,75 years

Development of an information security concept and a data privacy concept for a tolling platform (Kapsch)

Trade – 0,5 years

Consulting on data protection and setup of a data protection management system and an information management system (ISMS) (Lässig)

Professional Competence:

- UNECE R155, ISO 21434
- Tolling processess
- Automotive processes

E/E development processes

Production processes

Service processes

Logistics processes

- Aviation processes
- IT processes

PCI DSS

ISO 2700x

OWASP

Documentation according to Common Criteria

Documentation according to ITSec

Specialization

- Setup of a CSMS according to ISO 21434
- General data protection directive (GDPR)
- Payment Card Industry Data Security Standard (PCI DSS)
- IT security processes
- IT risk management
- Process analysis and -modelling

Leadership experience:

- CTO Secude GmbH, Management of Development and Consulting with 30 employees, 7 years
- CEO Fillmore Labs GmbH, 7 employees, 2 years

Project management experience:

- Daimler, sub-project management, 1,5 years
- Lufthansa, project management, 7 years
- Secude GmbH, program management, 7 years
- Fillmore Labs GmbH, project management, 2 years
- GMD (Fraunhofer Gesellschaft), 2 years

Miscellaneous:

- Member of Mensa e.V.
- Since 2004 freelancer (senior security consultant, process design)

2003 – 2004 Secude GmbH (CTO)

- 2001 2003 Fillmore Labs GmbH (CEO)
- 1996 2001 Secude GmbH (CTO)
- 1993 1997 GMD German national research center for information technology GmbH (scientific employee, project manager)
- 1990 1993 self-employed (IT consultant, software developer)

German

English (Certificate in Advanced English)

Former Employments

Languages

- Information Security Architect (Daimler)
- PCI SSC Standards Training
- ITIL-Foundation

Project management of IT projects (CSC Ploenzke)

From 01/2025 Coordination of the Business Information Security

Projects

Officers (BISO)

Role: Senior Information Security Consultant

Customer: Mercedes-Benz Group

Site: Stuttgart

Tasks: Implement appropriate target structures and processes which

are valid group-wide for information security in the business

units and central units.

Progression of role-, committee- and collaboration-models which are valid group-wide within the very complex environ-

ment of information security.

Controlling and progression of the new committee of the in-

formation security officers of the business units.

02/2024 - 12/2024

11 months

Support of the internal IT security architects as part of the internal consulting and further development of

security specifications

Role: Information Security Architect

Customer: Lufthansa Group

Site: Frankfurt

Tasks: Project execution and/or consulting within the context of IT

security based on defined goals and success criteria.

Development and implementation of IT domain security architecture(s) and development projects and/or product, service and provider management for business-critical applications in

all Lufthansa Group business areas.

Development, evaluation and management of a group-wide information security architecture and strategy as well as a

definition of group-wide guidelines.

Development of relevant attributes for the security architecture of the Deutsche Lufthansa Group (e.g. models, tem-

plates, standards).

Evaluation of the security solutions, services and tools of-

fered on the market.

Group-wide security assessment of existing IT systems and

security services.

07/2023 - 12/2024

(part time)

Consulting on data protection and setup of a data protection management system and an information

management system (ISMS)

Role: Senior Information Security Consultant

Customer: Lässig GmbH

Site: Frankfurt

Tasks: Consulting on IT systems (e.g. internal IT infrastructure,

online shops, applications) for data protection compliance

and information security.

Consulting and support in implementing a deletion concept and in carrying out data protection impact assessments.

Advice and support in the review and implementation of technical and organizational measures (TOMs).

Creation of the necessary information security documenta-

tion.

01/2022 - 12/2023

Coordination of the Business Information Security Officers (BISO)

2 years

Role:

Senior Information Security Consultant

Customer: Daimler / Mercedes-Benz Group

Site: Stuttgart

Tasks: Support in definition and development of appropriate target

structures and processes which are valid group-wide for information security in the business units and central units.

Progression of role-, committee- and collaboration-models which are valid group-wide within the very complex environ-

ment of information security.

Controlling and progression of the new committee of the in-

formation security officers of the business units.

01/2021 - 12/2021

Support in implementing a

1 year Cybersecurit

Cybersecurity Management Systems (CSMS)

Role: Senior Car Information Security Architect

Customer: Daimler TSS / Daimler Truck

Site: Ulm

Tasks: According to UN Regulation 155 OEMs are required to im-

plement a cybersecurity management system in the future for type approval. This requires them to comply to ISO/IEC

21434.

Determine status quo of all vehicle types affected.

Extend the vehicle development process to follow the re-

quirements of ISO 21434.

Create vehicle TARAs (Threat Analysis and Risk Analysis).

09/2020 - 12/2020

4 months (50%)

Creation of security profiles as Information Security Architect (ISA)

Role: Information Security Architect

Customer: Daimler
Site: Stuttgart

Tasks: Creation of a C4 model and data flow model during analysis

of IT systems to identify possibly vulnerabilities and threats

as well as determine cloud specific threats.

Evaluate threats and risks.

Develop appropriate countermeasures to mitigate risks to an

acceptable level.

Discuss the results with the project team.

07/2020 - 12/2020 Threat Analysis

3 months (50%) IT security and autonomous Driving

Role: Senior Information Security Consultant

Customer: State of Baden-Württemberg

Site: Stuttgart

Tasks: Analysis and identification of new threats through networked

and automated driving.

Preventive measures and the detection of attacks and appro-

priate countermeasures shall be proposed.

Especially new ways to detect criminal offenses shall be considered and also procedures for the traceability of decisions of the automated driving system that are based on machine

learning.

10/2018 - 03/2020

18 months

Sub-project Management Development and Introduction

of a tool-based Cloud Risk Process

Role: Senior Information Security Consultant

Customer: Daimler AG
Site: Stuttgart

Tasks: Create and implement a concept for the support incl. provider

selection.

Create and implement a concept to establish a world-wide

multiplier structure to complement the support.

Create and implement a concept for spot checks to validate projects have complied to the process and have identified

and mitigated risks correctly.

Support the work package communication.

04/2018 - 12/2019

21 months

Support in Governance of the

Cloud Risk Process

Role: Senior Information Security Consultant

Customer: Daimler AG
Site: Stuttgart

Tasks: Validate project documentation for cloud usage.

Align risk assessments with IT and legal.

Validate that mitigating measures have been implemented in

a project (spot checks).

Propose process improvements for the cloud risk process

and align with the responsible stakeholders.

Deploy a tool for governing the cloud risk process.

07/2017 - 03/2018

Preparation of a Concept

9 months Information Security, Data Privacy

Role: Project Information Security Manager

Customer: Kapsch TrafficCom

Site: Vienna

Tasks: Understand the enterprise architecture to be able to deliver

an information security concept for the program.

Align the security concept with the responsible business

stakeholders.

Ensure that the information security concept complies with the information security strategy as well as the existing ISMS.

Develop an information security risk management approach.

Derive from the security concept a security operations con-

cept.

01/2017 - 06/2017

Process Design Vulnerability Management

6 months

Role: Project manager

Customer: Lufthansa Airlines

Site: Frankfurt

Tasks: Launch of processes to perform and monitor:

Regular vulnerability scans

Installation of security patches

Exchange of software components no longer supported

by the manufacturer

 Exchange of encryption protocols for data transport that are no longer secure (especially introduction of TLS 1.2)

11/2016 - 12/2016

Preparation of a Concept

2 months (50 %)

"Aircraft affecting Information Security"

Role: Project manager

Customer: Lufthansa AG

Site: Frankfurt

Tasks: Preparation of a concept about how "Aircraft affecting Infor-

mation Security" can be implemented within the company.

Coordination with all relevant departments.

Preparation of a presentation of the main results as basis for

the creation of a board paper.

01/2016 - 12/2016

Implementation PCI DSS 3.2

1 year

Role: Project manager

Customer: Lufthansa Airlines

Site: Frankfurt

Tasks: The revised standard requires the implementation of TLS 1.2.

Adaption of roughly 120 IT systems is therefore necessary.

Overall coordination of all required individual measures.

Cost management.

Audit support.

01/2015 - 12/2015

Project Management PCI DSS 3.0

1 year

Role: Project manager

Customer: Lufthansa Passage

Site: Frankfurt

Tasks: Implementation of the new requirements of PCI DSS 3.0.

Audit support.

07/2011 - 12/2014

Project Management PCI DSS

3 years 6 months

Role: Project manager

Customer: Lufthansa Passage

Site: Frankfurt

Tasks: Scope-, time-, milestone- and cost management.

Budget responsibility.
Risk management.

Stakeholder management.

Overall coordination of all required individual measures to ful-

fil the project objective.

Review of the security measures to be implemented regard-

ing PCI DSS compliance.

Creation of the project charter, creation of the project closure

report.

Audit support.

01/2009 – 06/2011 2 years 6 months

Implementation of PCI DSS

Role: Senior Security Consultant

Customer: Lufthansa Passage

Site: Frankfurt

Tasks: Implementation of the concept created within the feasibility

analysis regarding PCI DSS. Thereby reacting flexible to new

requirements.

Solutions were developed to get whole families of systems

out-of-scope of PCI DSS.

Coordination with system managers.

Preparation of review board meetings.

Cost management.

12/2007 - 12/2008

Feasibility Analysis PCI DSS

1 year 1 month

Role: Senior Security Consultant

Customer: Lufthansa Passage

Site: Frankfurt

Tasks: Evaluation of effort and cost to implement the security stand-

ard PCI DSS (Payment Card Industry Data Security Stand-

ard) entirely within Lufthansa Passage.

Preparation of a board paper to implement PCI DSS.

07/2007 - 11/2007

Support the CC-Evaluation of a

5 months Signature Application Component according to SigG

Role: Security Consultant

Customer: Authentidate
Site: Düsseldorf

Tasks: The Signature application component fulfilling the German

Signature Law to create and verify qualified electronic signatures was evaluated according to Common Criteria EAL 4.

In this context, Java unit tests were created to verify the correctness of the application. Furthermore, the completeness of

the test coverage had to be proven.

04/2007 - 06/2007

3 months

Development of Security Concepts for the Deployment

of the German Electronic Health Card

Role: Security Consultant

Customer: Authentidate
Site: Düsseldorf

Tasks: Development of security concepts according to ISO 2700x.

Evaluation of several hardware security modules.

03/2006 - 03/2007

1 year 1 month

Operation of Center of Competence Automotive Security

Role: Senior Security Consultant

Customer: BMW AG
Site: München

Tasks: Monthly organization of the steering committee CoC Automo-

tive Security.

Preparation of decision memos for the board of heads of departments according to the guidelines of the client.

Communication of the know-how of automotive security to all involved departments.

Amendment of the BMW threat catalogue in collaboration with the administrative department for information protection.

Definition of the base protection profile for automotive security in collaboration with the administrative department for information security according to ISO 2700x.

Review of existing security measures of the responsibles for

electronic control units.

Requirements management for security measures of automo-

tive security.

08/2005 - 02/2006

7 months

Definition and Implementation of Center of Competence

Automotive Security

Role: Project manager

Customer: BMW AG
Site: München

Tasks: Identification and analysis of requirements of a CoC Automo-

tive Security.

Definition of the tasks and description of roles and processes

of the CoC Automotive Security.

Coordination with all relevant contact persons of the involved

departments.

Preparation of an action plan to implement the CoC Automo-

tive Security.

Enforcement of the action plan and integration of the CoC Automotive Security in the process landscape of the client.

Support of the project management to implement the CoC Automotive Security and coordination of all involved depart-

ments.

07/2005 - 07/2005

Vulnerability Analysis of Vehicle Security

1 month

Role: Project manager

Customer: BMW AG
Site: München

Tasks: Implementation of a vulnerability analysis regarding the secu-

rity of the currently implemented solution of "Vehicle Securi-

ty".

Outline of attack scenarios.

Evaluation of the effectiveness of the implemented security

functions.

Implementation of a residual risk analysis.

05/2005 - 06/2005

Management of the Project Main Concept HDD-Update

2 months

Role: Project manager

Customer: BMW AG
Site: München

Tasks: Determine the legal requirements and derive the necessary

security requirements.

Coordination with all relevant departments.

11/2004 - 04/2005

6 months

Threat and Risk Analysis of Vehicle Security

Role: IT Security Consultant

Customer: BMW AG
Site: München

Tasks: Design and development of a threat- and risk analysis based

on CIA criteria (confidentiality, integrity, availability) for the security architecture of the newest vehicle model as well for

the vehicle side as for the infrastructure side.

Discussion and prioritization of the risk profile with the relevant contact persons of the respective consumer and system

functions (security requirements analysis).

Derive the overall risk for the vehicle from the single risks of

the consumer and system functions.

Derive the overall risk for the infrastructure from the single

risks of the respective consumer functions.

Definition of security components appropriate to secure the

bordnet architecture.

Determination of the residual risk according to the specifica-

tions of BMW.

Digital Rights Management for Napster

Design and development of a high performant PKI system for 50 millions of users for Napster

Design and integration of brand-new obfuscation techniques into the Napster software to enforce digital rights management

Security for SAP R/3

Design and development of a product to secure the client/server communication of SAP R/3

Because of export restrictions it was necessary for SAP, to integrate an interface into the R/3 system in a way, that third party products could realize the encryption of the communication channel without the need for SAP to implement the security functionality by themselves

The protocol had to ensure strong authentication of the users and the encryption of the communication channel

The use of hardware to enhance security should be possible

BaanERP Security

Design and development of a client/server system that uses signature law compliant hardware components for the secure login to a Baan ERP system for the Federal State of Lower Saxony

It was not possible to integrate the security functionality directly into the Baan ERP system

Realization was accomplished as middleware as well on the client side as on the server side

On the client side the Microsoft protocol stack was extended and on the server side the middleware acts as a proxy which allows the connection to the BaanERP server only after a successful user authentication

As hardware components signature law comliante smartcards of Deutsche Telekom were used

Identrus

Identrus was an initiative of international major banks to establish a public key infrastructure for business-to-business to suport e-commerce

New security protocols for electonic business processes were designed together with Identrus

The software developed was being used as reference to test third party software for compliance to the protocols

Patent submissions:

20020165827: System and method for facilitating signing by buyers in electronic commerce

20020112156: System and method for secure smartcard issuance

Secure Online Banking

Design and development of a secure online banking protocol for Dresdner Bank At the time of the project common online banking implementations used only PIN/TAN techniques for authentication and transaction security

Digital signatures are still not very common in this area but they are ideally suited to provide this functionality

In co-operation with several companies an online banking protocol was designed based on digital signatures. This protocol models the entire process from certificate issuing to online transactions

Security in OSI-Management

Design of specifications to integrate access control into an existing X.700 OSI management platform

Implementation of access control for OSI Management (X.741)

Development of scientific publication about security policies and their representation

Design of specifications to integrate security policies into an existing OSI management platform

Implementation of security policies into an existing OSI management platform