

VDI

12th International VDI Conference Cyber Security for Vehicles

June 09-10, 2026, Munich

- Cyber Security Technologies
- Regulations and Standards
- Software-Defined Vehicles (SDV)
- Artificial Intelligence & Threat Detection
- Operational & Post-Development Security

+ International Best Practices

+ Panel Discussion

Meet international Experts from:



An event organized by VDI Wissensforum GmbH
www.vdi-international.com/01K0907026





About us



The Association of German Engineers (VDI) is one of the largest technical-scientific associations in Europe. Throughout the years, the VDI has successfully expanded its activities nationally and internationally to foster and impart knowledge about technology-related issues. As a financially independent, politically unaffiliated and non-profit organization the VDI is recognized as the key representative of engineers both within the profession and in public.

Reasons to attend

Meet technical leaders, cybersecurity experts and key decision-makers from leading OEMs and Tier-1 suppliers.

Learn about cutting-edge developments, emerging threat scenarios and proven solutions to strengthen automotive cyber resilience.

Get informed about the latest standards, tools and practical approaches shaping automotive security strategies today and tomorrow.

Network with peers, innovators and practitioners during interactive sessions, coffee breaks and the evening event to expand your industry circle.

Benefit from expert insights and real-world perspectives on addressing complex cybersecurity challenges in connected and software-driven vehicles.

Prepare for regulatory and technical shifts in vehicle security by gaining actionable knowledge you can apply immediately in your projects.

Hear about real case studies, interactive discussions on risk management frameworks and forward-looking security architectures for automotive systems.

Discuss the impact of evolving cyber threats on automotive system integrity, product safety and business continuity with international experts.

Supporting Experts

Dr. Mathias Dehm Head of Security & Privacy R for digital services, AUMOVIO Autonomous Mobility Germany GmbH, Frankfurt am Main

Prof. Dr. Christoph Krauß Head of Research Group Applied Cyber Security, Hochschule Darmstadt, Darmstadt

Prof. Jörn Eichler Volkswagen AG, Wolfsburg

Dr. Christian Köbel Project Engineer, Honda R & D Europe (Deutschland) GmbH, Offenbach

Exhibitor

wolfSSL, Inc.



Upcoming Events

International VDI Congress

ELIV 2026

October 14-15, 2026 in Baden-Baden

International VDI Congress

smartAI 2026

November 24-25, 2026 in Baden-Baden

09:00 Registration & welcome coffee

10:00 Chair's welcome and opening address

Dr. Mathias Dehm, AUMOVIO Autonomous Mobility Germany

I. Regulations, Standards, Processes & Homologation

10:15 Bridging the Gap: Integrating ISO/SAE 21434 into the Silicon Development Lifecycle

- Introduction of the NVIDIA DRIVE platform and the Thor SoC
- Overview of NVIDIA's ASIC development process and how we introduced ISO/SAE 21434 into it
- Discussing challenges we faced implementing each of the ISO's chapters into our chip development process

Daniel Wegemer, Senior Hardware Security Architect, NVIDIA, Germany

10:45 Strengthening Automotive Cyber Resilience Through Global Information Sharing: The Auto-ISAC Model

- The role of information and intelligence sharing in improving cyber security
- How Auto-ISAC supports alignment with evolving regulations and standards
- Real-time information and intelligence sharing across 19 Working Groups
- Member-driven knowledge and insights delivered through Auto-ISAC products

Faye Francy, Executive Director, Auto-ISAC, USA

11:15 ☕ Networking & coffee break

11:45 Securing Smart Charging: Critical Attack Paths, Business Impact & Joint Controls Across Stakeholders

- Ecosystem overview: who connects to whom, and what data is exchanged
- Where attacks can realistically happen along the chain
- So what: business impact and what to fix first—together

Konrad Fels, M. Sc, Competence Unit Manager E-Mobility

Georg Graupner, MBA, Competence Unit Manager Embedded Cybersecurity, both: NTT DATA Deutschland SE, Germany

12:15 TARA 2.0 for software defined vehicles

- Limitations of classical TARA (ISO/SAE 21434) for SAE level 4/5 CAVs
- TARA 2.0's advanced risk modelling and scoring mechanisms
- Validation, regulatory alignment, and replication guidance
- Future directions: towards scalable and automated TARA practices

Dr. Meriem Benyahya, Senior researcher and lecturer, College of Computing, University Mohammed VI Polytechnic (UM6P), Rabat, Morocco

Prof. Dr. Anastasija Collen, Associate professor, University of Applied Sciences and Arts of Western Switzerland (HES-SO), Geneva, Switzerland

12:45 🍷 Lunch

II. Security Technologies & Developments in Security for Automated Vehicles

14:15 APIs Have Become the Nervous System of Vehicle Innovation, but Also the Biggest Vehicle SOC Challenge

- How API design oversights scale into vehicle and fleet vulnerabilities
- Why IT-centric API security tools miss critical context
- The power of live digital twin technology: how correlating API traffic with telematics, and in-vehicle signals reveals real-world impact

Dr. Matthias Lenk, Sales Director, Europe, Upstream, Germany

14:45 Fault Injection: The Attack You're Not Ready For

- Background on Fault Injection Attacks
- Fault Injection Attacks and UN R155/ISO 21434
- Mitigations Against Fault Injection Attacks

Ondrej Šuffner, Product Security Testing Manager, Accenture, Czech Republic

Dr. Daniel Schmidt, Firmware and Embedded Engineering Manager, Accenture, Germany

15:15 Automotive Cybersecurity for Semiconductor SoCs – Applying ISO/SAE 21434 Across the Silicon Lifecycle

- Alignment of the ISO/SAE 21434 cybersecurity lifecycle with the semiconductor SoC development lifecycle
- TARA and risk assessment for out-of-context (OoC) SoCs and IP components
- Automotive-relevant attack scenarios on SoCs and IPs

Dipl.-Wirt.-Phys. Dipl.-Phys. Jürgen Helmschmidt, Dipl.-WInf. Natascha Freitag, SGS TÜV Saar GmbH, Germany

15:45 ☕ Networking & coffee break

III. Cybersecurity in the Software-Defined Vehicle 1

16:30 The Silent Saboteur: Compilers as a Source of Embedded Vulnerabilities

- Compilers can silently introduce vulnerabilities in embedded systems
- TARA vulnerabilities and the conditions under which they arise
- Improved toolchain validation to strengthen software security and development processes

Dipl. Ing. Rudolf Grave, Head of Compiler R&D, TASKING, Germany

17:00 Key Management Across Generations in the SDV Transition and a Changing Cryptographic Landscape

- Trust Boundary Conflicts in Multi-Domain SDV Platforms
- Integrated Vehicle Key Management System
- PQC-Ready Key Management Policy Strategy

JooHwa Sarah Lee, Managing Director, Autocrypt Technologies GmbH, Germany

18:00 👥 Get-together

At the end of the first conference day we kindly invite you to use the relaxed and informal atmosphere for in-depth conversations with other participants and speakers.

09:25 Chair's welcome day 2

09:30 Interactive Panel Discussion

Join the industry experts and discuss challenges and opportunities of cyber security in vehicles. Ask your questions and contribute to the session with your valuable insights and expertise.

10:30  Networking & coffee break

III. Cybersecurity in the Software-Defined Vehicle 2

11:15 Guardians of the SDV Stack - A new Age of Vehicle Cyber Security Monitoring?

- Overview of the current landscape of regulatory requirements, complemented by established standards and publicly available solutions
- Insights that can be drawn from existing technical and methodological approaches to cybersecurity monitoring in modern vehicle architectures
- Requirements aimed at enabling a holistic security-monitoring approach for Software Defined Vehicles

Dr. Alexandre Berthold, Senior Expert - Automotive Cyber Security, Volkswagen, Germany

11:45 Synergizing Cybersecurity and Functional Safety Frameworks in Standardized SDV Platforms

- Cyber-Safety Interdependency in SDVs
- Bidirectional Reinforcement of CS and FS Mechanisms
- Unified Assurance and Co-Verification Need

Balagopal Prakash Kumar, Senior Function Developer, E-Mobility, Volvo, India
Ashik Abubackkar, Expert System Design Engineer, Electromobility, Volvo, India
Keerthivasan M, System Design Engineer, Electromobility, Volvo, India

12:15 The Double-Edged Sword: Operationalizing Hybrid AI model for Real-Time Threat Detection in Zonal SDV Architectures

- Introduction to an AI-native Intrusion Detection and Prevention System (IDPS) for modern automotive environments
- Use of LSTM networks and Variational Autoencoders (VAEs) to detect and mitigate zero-day attacks in real time
- Optimization for embedded ECUs and high-throughput zonal gateways with low latency and reduced false positives Strategies to protect AI models from adversarial attacks and data poisoning
- Secure training and validation approaches to ensure model integrity and robustness
- Alignment with ISO/SAE 21434 cybersecurity and privacy requirements

Thiyaneswaran Murthi, Senior Technical Architect, Bosch Global Software Technologies, India

Jayaram Ganapathy, Senior Engineer, Bosch Global Software Technologies, India

12:45  Lunch

14:15 A Hybrid Security Interface Harmonization Concept for Raising the Overall Security Level of Connected Vehicles

- Modern automotive E/E architectures enable a variety of different security-critical use cases and business models
- The requirements regarding security, safety, and performance capabilities vary depending on the application
- This talk presents a holistic security concept for raising the overall security level of modern vehicles while acknowledging their heterogeneous requirements

Dr. Christian Plappert, Head of Cyber-Physical Systems Security, Fraunhofer SIT, Germany

IV. Post-Development / Vehicle Operation

14:45 Attack Feasibility Revisited - How AI Is Reshaping Automotive Cybersecurity Risk

- Components of risk
- Impact of AI on the attack feasibility
- Implication of an altered threat landscape

Annemike Vierneisel, Senior Cybersecurity Engineer, HOLON, Germany

15:15 The potential of Lightweight Cryptography in long term vehicle maintenance

- Introduction into technical and processual challenges of long term vehicle maintenance
- Observation of adaptive strategies to leverage lightweight cryptography as a flexible tool
- Investigation of use-cases and real-world scenarios where lightweight methods greatly expand the solution space

Michael Gerhard Schneider, Principal Expert Product Cybersecurity and Privacy, AUMOVIO, Germany

15:45 Closing Remarks

16:00 End of conference

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Conference venue
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You will find more hotels
close to the venue at
www.vdi-wissensforum.de/hrs

Hotel room reservation: A limited number of rooms has been reserved for the benefit of the conference participants at the conference hotel. Please refer to the "VDI Conference".

VDI Wissensforum service package: The conference package includes the conference documents (online), beverages during breaks, lunch and the get-together on June 9, 2026.

Conference attendance conditions and terms can be found on our website:
www.vdi-wissensforum.de/en/terms-and-conditions/

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Registration

Cyber Security for Vehicles



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