

International VDI Conference

# Software Solutions for Commercial Vehicles

The Impact of Software-Defined Vehicles on the Commercial Vehicle Industry

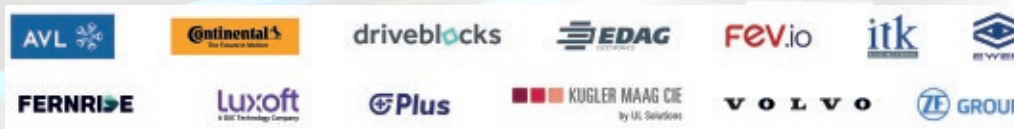
March 19 and 20, 2024, Munich

- Autonomous Driving
- Software Architecture of Commercial Vehicles
- Software Solutions for OEMs and Fleet Operators
- Data Management
- Cyber Security of Software Driven Commercial Vehicles

+ **Interactive World Café Session**

+ **Parallel Conference „Automotive Software Ecosystem“**

Meet international Experts from:



09:00 Registration & welcome coffee

**10:00 Chair's welcome and opening address**

**I. Autonomous Driving**

**10:15 How to integrate Autonomy & Remote Driving in a hybrid Approach to launch a safe, and reliable Product quickly**

- What does logistics need to immediate solutions with autonomous electric trucking
- Human-assisted autonomy approach of FERNRIDE explained
- Use cases and challenges that can be solved already today

**Hendrik Kramer**, Co-founder and CEO, FERNRIDE, Germany

**10:45 Autonomous Driving - Far more than a Software Challenge**

- The understated hardware challenge in a software driven technology
- Broken (software based) business models in autonomous driving
- Scaling in autonomous driving technology - The chicken and egg problem

**Keynote**

**Dipl. Wirt. Ing. Marco Kollmeier**, New mobility founder, entrepreneur & advisor, prior CEO and MD HOLON GmbH & Benteler EV Systems GmbH, Germany

**11:15 Beyond high-Definition Maps: Mapless Autonomous Driving**

- Mapless autonomy as alternative or backup strategy for situations where high-definition maps fail to provide service
- Innovation based on a blend of transformer neural networks and geometrically interpretable sensor-fusion techniques
- Technical deepdive into selected features of the Mapless Autonomy as well as real-world testing results and videos

**Dr.-Ing. Tim Stahl**, Co-Founder, Co-Author: Dr.-Ing. Felix Nobis, Co-Founder, both: driveblocks GmbH, Germany

**11:45 Advanced Perception Software for ADAS and Autonomous**

- Sensor selection, advantage and disadvantage of radar and camera
- Camera based perception with AI how does it work
- Flexible software architecture using AI results for features
- How to come to ADAS features and use cases based on object lists

**Dr. Wolfgang Domann**, Managing Director, EYYES GmbH, Austria

12:15  Lunch

**II. Commercial Vehicle Architecture**

**13:45 How to integrate fast & agile SW Development Methods as a Basis for new EE- Architectures Into a Truck Development**

- Key challenges in SW and EE HW development
- Key challenges of agile SW development
- New EE & SW architecture

**Keynote**

**Dr. Ing. Mark Mohr**, Head of Vehicle Technology, Volvo Trucks Technology, Sweden

**14:15 Diagnostics of Software defines Vehicle and New E/E- Architectures**

- SOVD
- HPC
- Vehicle diagnostics

**Alexander Brede**, System Architect, Continental Corporation, Germany

**14:45 OEM Transformation towards Software defined Vehicles Enabled by Systems Engineering**

- Build up of a software focused development organization at an OEM by means of systems engineering
- Adaption of classical systems engineering for the development of Software defined vehicles
- Exemplary implementation of the modified SE approach in SDV innovation pilot program

**Jan-Philipp Hake**, Solution Manager, Co-Author: Dr. Jan-Jöran Gehrt; both: FEV.io, Germany

**III. Software Defined Commercial Vehicle**

**15:15 Software defined Vehicle Transformation within Commercial Vehicles Industry**

- Why is there the need for SDV transformation in commercial vehicles industry? What influences the industry and how do the roadmaps look like?
- What are the challenges and impacts for/on the transformation? Why do OEMs struggle and need external support?
- How does Luxoft's role look like and what is our value to the clients?

**Natascha Giannakopoulos**, Sales Director Automotive, EMEA and **Barbara Metternich-Heider**, Strategic Development Manager / Solution Architect, both: Luxoft GmbH, Germany

15:45  Networking & coffee break

**16:30 Interactive World Café Sesion**

Join us for interactive round table discussions with industry experts. Share and address challenges within your sector, identify problems and needs, and explore solutions. Bring your own experiences and cases to the table. Don't miss out on this chance to connect with your industry colleagues.

17:30 End of conference day one

**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 and opening address****III. Software Defined Commercial Vehicle****09:30 Redefining Mobility Software Development**

- Safety-certified and scalable mobility middleware solutions
- Comprehensive embedded middleware software solutions based on proven open-source software
- Streamlined SDV development with a unified SDK for all vehicle domains, supporting continuous development from code to road to feature

**Laurent Emmerich**, Global Director Customer Solutions, Apex.AI, USA

**10:00 Transformation of the Software Integration Process - From classic Software Integration to Co-Integration**

- Increasing complexity due to different software deliveries and increasing needs to speed up the validation feedback
- Key requirement: achieving maximum flexibility and pace while minimizing the validation efforts
- Presentation of new available technologies in combination with well-established approaches

**Andreas Bossert**, Senior Expert Engineer, itk Engineering GmbH, Germany

**10:30 Recap World Café Session**

We will be reviewing the results and key takeaways gained from the diverse perspectives shared by our participants. This is an opportunity to reflect on the ideas and solutions generated during the World Café and to gain a deeper understanding of the challenges and opportunities facing our industry.

11:00  Networking & coffee break

**11:45 Deploying save and scalable Autonomous Truck Software Solutions today**

- Challenges and opportunities in deploying autonomous driving technology for safe, customer-centric, and sustainable transportation solutions
- Plus's progressive approach towards market adoption, offering a full suite of software solutions to address various use cases and tiered levels of autonomy
- Examples of scalable global deployment in Europe, US, and Australia

**Sunny Choi**, Senior Director Business Development, Plus, USA

**IV. Data Management****12:15 Effective Data-Driven Solutions for OEMs and Fleet Operators: Predictive Maintenance and Functional Assurance**

- Early response to customer demands: Utilizing data-driven methods and software solutions to enable OEMs to proactively address customer requirements and field challenges
- Cost reduction through predictive maintenance: Implementing solutions for fleet monitoring and predictive maintenance to help reduce maintenance costs for fleet operators

- Successful case studies: Successful customer projects, including monitoring, predictive maintenance, and leveraging usage profiles for functional assurance in development

**Dr. Nikolaus Keuth**, Head of Product and Solution Management Data Analytics Solutions, Co-Author: Gerhard Schagerl, Product Line Manager Data Science, both: AVL List GmbH, Austria

12:45  Lunch

**13:45 Survival Camp Data Management - Paths through the Automotive Data Jungle**

- Introduction to a data management process model and its use cases
- Provide a comprehensive view of an organization's data management practices
- Using a real-life scenario to showcase a survival path through the data jungle

**Christian Hübscher**, Principal Consultant, Co-Author: Christina Stathatou, Lead Consultant, both: KUGLER MAAG CIE by UL Solutions, Munich, Germany

**V. Cyber Security****14:15 Cyber Security Solutions for Legacy and new Applications for Commercial Vehicles**

**Marco Michel**, Chief Engineer Diagnostics, ZF CV Systems Hannover GmbH, Germany

**14:45 Innovative approach to embedded Security supported by ISO-21434 for Time-Cost Reduction**

- Inherent cybersecurity expectation and upcoming threats in commercial vehicles
- Revolutionizing security strategies: ISO-21434 integration and advanced penetration testing for elevated security
- Streamlined risk identification with efficient resource-time optimization
- Enhanced potential of identifying vulnerabilities and mitigate threats effectively
- Early stage implementation to transform existing development processes and minimize overall cost of ownership

**M.Sc. Abdallah Mola**, Professional Software Engineer Embedded Software and **Anja Behringer**, Head of Department Embedded Software, both: EDAG Engineering GmbH, Germany

15:15 Closing Remarks

15:30 End of conference

## 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.

## Supporting Experts

Dr. Gerhard Nowak, ifp Consulting, Germany  
Serkan Arslan, Apex.ai, USA

## Reasons to attend

**Gain** valuable insights into the latest trends, challenges, and innovations within the commercial vehicle industry.

**Connect** with industry experts, professionals, and potential collaborators

**Stay** updated on emerging technologies and their impact on software solutions for commercial vehicles.

**Explore** the latest software products, tools, and solutions designed specifically for commercial vehicles.

**Engage** with internationally renowned Software specialists during interactive sessions, breaks and at the evening reception



## Upcoming Events

International VDI Conference  
**Automotive Data Communication**  
June 4–5, 2024 in Heidelberg

## International VDI Conference

# Automotive Software Ecosystem

### Date and venue:

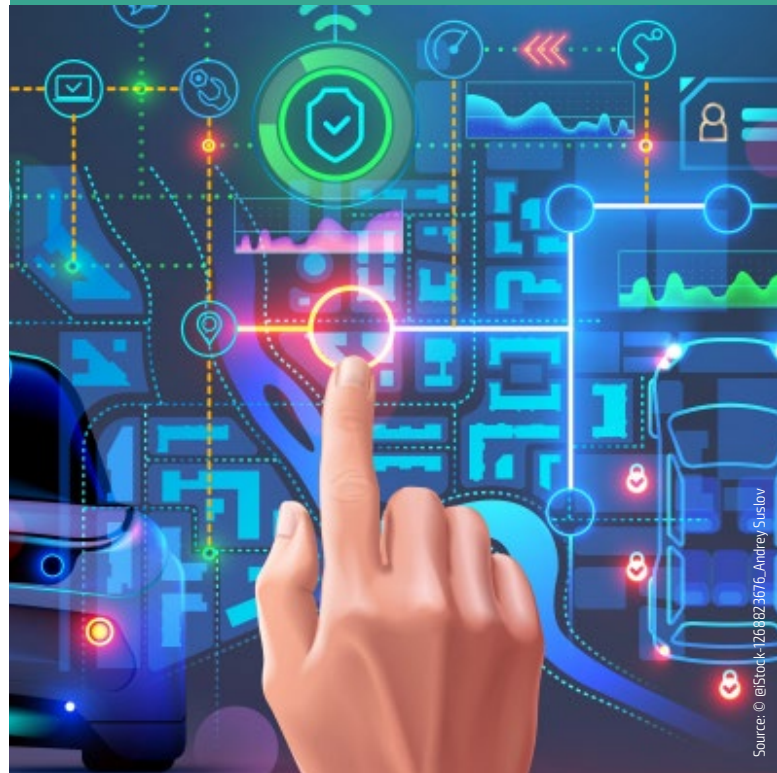
March 19–20, 2024

Munich, Germany

**Renowned speakers will present their results on the following topics:**

- Software-Defined-Vehicle
- Software-Driven-Vehicle Architecture
- Over-the-Air Updates
- Software Technologies & Further Developments
- Open Source Software

[www.vdiconference.com/01K0964](http://www.vdiconference.com/01K0964)



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## Exhibition / Sponsoring

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If you want to meet with and reach out to the first-rate experts attending this VDI conference and to powerfully present your products and services to the well-informed community of conference participants, please contact:

**Jasmin Habel**  
Project Consultant  
Exhibitions & Sponsoring  
Phone: + 49 211 6214-213  
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## Become a speaker

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Become a speaker at our international VDI Automotive Conferences. Make yourself known in the industry and discuss best practice examples with other international experts. We are looking for speakers on: Electrified Off-Highway Machines, Autonomous Trucks and Battery Systems. Please submit your topic to:

**Birgit Bremer**  
Product Manager International Business  
Phone: +49 211 6214-273  
Email: [Birgit.Bremer@vdi.de](mailto:Birgit.Bremer@vdi.de)

## Terms and Conditions

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**Registrations:** Registrations for conference attendance must be made in writing. Confirmation of your registration and the associated invoice will be mailed to you. Please do not pay your conference attendance fee until you have received our invoice and its invoice number to be stated for transfer. German VAT directives apply. Please state your VAT-ID with your registration.

**Conference venue**  
Dorint Hotel München/Garching  
Parking 51-53  
85748 Garching, Germany  
Phone: +49 89/360380-0  
Email: [info.garching@dorint.com](mailto:info.garching@dorint.com)



You will find more hotels  
close to the venue at  
[www.vdi-wissensforum.de/hrs](http://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 Dorint Hotel München/Garching.

Please refer to "VDI Conference". For more hotels: [www.vdi-wissensforum.de/hrs](http://www.vdi-wissensforum.de/hrs)

**VDI Wissensforum service package:** The conference package includes the conference documents (online), beverages during breaks, lunch and the get-together on March 19, 2024.

**Conference attendance conditions and terms** can be found on our website: [www.vdi-wissensforum.de/en/terms-and-conditions/](http://www.vdi-wissensforum.de/en/terms-and-conditions/)

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# Registration

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**Register online!**

[www.vdi-international.com/01K0106024](http://www.vdi-international.com/01K0106024)



VDI Wissensforum GmbH  
P.O. Box 10 11 39  
40002 Düsseldorf, Germany  
Phone: +49 211 6214-201  
Fax: +49 211 6214-154  
Email: [wissensforum@vdi.de](mailto:wissensforum@vdi.de)  
[www.vdi-international.com/01K0106024](http://www.vdi-international.com/01K0106024)

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Yes, I will participate as follows:

**Participation Fee + VAT**

**VDI Conference 19.-20.03.2024**  
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