



16th International TÜV Rheinland Symposium

Functional Safety and Cybersecurity in Industrial Automation
September 15 and 16, 2026 in Cologne – Germany.

Functional Safety and Cybersecurity are essential to ensure safety, availability, compliance, efficiency and trust in modern industrial environments. In a highly networked industrial landscape, safety and cybersecurity are becoming key success factors. This development unleashes enormous efficiency potential – but at the same time offers new areas of attack and creates complex risk profiles.

The industry is currently characterized by new technological developments: Not only the EU Machinery Regulation, but also the Cyber Resilience Act (CRA) define legal requirements that demand a holistic understanding of security from companies.

The increasing use of artificial intelligence (AI) also offers potential for progress and efficiency – while at the same time creating new risks in terms of security and regulation.

Functional Safety, Cybersecurity and AI have a significant impact on the success of companies and industry today. At the same time, they pose current challenges.

This year's TÜV Rheinland Symposium will focus on these topics and developments in the various industrial application areas. Experts and specialists from industry and science will offer practice-orientated presentations as well as opportunities for an interactive exchange of experiences.

Participants can take advantage of the networking opportunities with industry colleagues and the chance to engage in direct dialogue. Benefit from the expertise and inspiration provided by presentations, keynotes and discussions..

TOPICS

- Cyber Resilience Act (CRA)
- New EU Machinery Regulation
- AI and Security
- Functional Safety versus Cybersecurity

IN COOPERATION WITH

Altera, Germany | Amazon Robotics, USA | AUMA Riester GmbH & Co. KG, Germany | Bayer AG, Germany | Bosch Rexroth AG, Germany | Boston Dynamics, USA | German Federal Office for Information Security, Germany | dacoso GmbH, Germany | EFSTAS, United Kingdom | HIMA Paul Hildebrandt GmbH, Germany | Huawei, Germany | I & E Systems, Australia | Ikerlan, Spain | infoteam Software AG, Germany | Kontron AIS GmbH, Germany | Lenze, Germany | Mesco Engineering, Germany | NewTec GmbH, Germany | Noerr Partnerschaftsgesellschaft mbB, Germany | Petroleum Development Oman, Oman | Phoenix Contact GmbH, Germany | ProSalus Safety Consultants Ltd, United Kingdom | RAMSYS GmbH, Germany | Rockwell Automation, United Kingdom | Saudi Aramco, Saudi Arabia | ScienceLoft GmbH, Germany | Shakti Corp Pty Ltd, Australia | SICK, Germany | T V C, United Arab Emirates | TEFDO, Turkey | TÜV Rheinland i-sec, Germany | TÜV Rheinland UK, United Kingdom | Worley GmbH, Germany | Yokogawa, Netherlands



Organisation

DATE



Tuesday, [September 15](#) and
Wednesday, [September 16, 2026](#)

Registration on 1st Day: [8:30 a.m.](#)
Start on both days: [9 a.m.](#)

FEE



890 €

EARLY REGISTRATION



[790 €](#) | For registrations made until [July 15, 2026](#)

- The fee includes attendance at the Symposium, refreshments, lunch and dinner + evening program.
- The fee (free from all deductions) is payable on receipt of our invoice before start of the Symposium.
- The fee does not include accommodation costs.

VENUE



[TÜV Rheinland Headquarters](#)

Room: Rheinland Saal

Address: Am Grauen Stein | 51105 Cologne | Germany

TARGET GROUP



- Integrators of safety relevant installations.
- Manufacturers and designers of safety-related components and systems.
- Operating companies, testers, security experts and specialists, approval authorities.

CONFERENCE LANGUAGES



German and English (in simultaneous translation)

PROCEEDINGS



The proceedings/presentations will be published on the TÜV Rheinland website for Functional Safety.

Participants will be informed by email accordingly.

ABENDPROGRAMM



[1st Day – Boat Trip](#)

Pick-up from TÜV Rheinland Headquarters': [5.30 p.m.–5.45 p.m.](#)

Boat Departure: [6.30 p.m.](#)

REGISTRATION



- Please register in writing by e-mail using the enclosed registration form.
- You will then receive a confirmation of your registration and details how to get to the symposium.
- The number of participants is limited.
Please ensure your participation by early registration.

HOTEL RESERVATION



Hotel room reservations cannot be made through TÜV Rheinland.

CONTACT



TÜV Rheinland Industrie Service GmbH
Am Grauen Stein, 51105 Cologne, Germany
Tel. +49 221 806 2981
fscs.symposium@tuv.com

Program – Day 1

Welcome

Thomas Steffens

TÜV Rheinland Industrie Service GmbH, Deutschland
Automation | Functional Safety & Cybersecurity

Moderators

Joerg Krämer, Florian Kiel

TÜV Rheinland Industrie Service GmbH | Germany

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Scope and Compliance Approaches to the Requirements of Current Cybersecurity Regulations

Jens Kluge

German Federal Office for Information Security (BSI) |
Germany

Reality Matters – The Trust Challenge in Times of Rapid Changes

Michael Lemke

Huawei | Germany

The AI Act from a Product Regulatory Perspective: Key Requirements at a Glance

Julia Meggyes

Noerr Partnerschaftsgesellschaft mbB | Germany

VDI/VDE 2180-5 This is what you really need for Functional Safety

Dr. Gregor Schmitt-Pauksztat

Bayer AG | Germany

● COFFEE BREAK

PANEL DISCUSSION

Machinery Regulation & Cyber Resilience Act (CRA): Just Security4Safety?

Michael Niehaus

Lenze | Germany

Carsten Gregorius

Phoenix Contact GmbH | Germany

Franz Dold

SICK | Germany

Gebhard Bouwer

TÜV Rheinland Industrie Service GmbH | Germany

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EN 50742 – Safety of Machinery – Protection against Corruption: Overview and Practical Considerations

David Main-Reade

Rockwell Automation | United Kingdom

Erhan Eskicumali

TEFDO | Turkey

QUESTIONS & ANSWERS

An Insight into where Process Safety Encounters Machinery Safety

Suresh Sugavanam

TÜV Rheinland UK, United Kingdom

AI without a Plan is Expensive Actionism and Worthless without Customer Benefit

Dr. Sonja Kieffer-Radwan

ScienceLoft GmbH | Germany

● LUNCH

Getting ready for the EU Cyber Resilience Act: Challenges, Methodologies, and Customer Value

Michael Neve de Mevergnies, Angelo Lo Cicero

Altera | Germany

Integrating Functional Safety and Cybersecurity for Trustworthy AI in Safety-Critical Systems

Lorea Belategi, Irune Agirre

Ikerlan | Spain

AI Security: Model Context Protocol – a blessing and a curse in practice. How can the MCP interface between AI and ERP be secured meaningfully?

Stefan Eigler

TÜV Rheinland i-sec GmbH | Germany

● COFFEE BREAK

Safety-Related Fusion of Non-Safety-Rated Sensors at Scale: Design and Fleet-Wide Deployment of Sensor Cross-Check

Dr. Jonathan Holm, Adam Lehman, Mariano Lizarraga

Amazon Robotics | USA

Development of Safe Encoders in Automation Technology in accordance with the new EN 61800-5-3 Standard

Maximilian Wüst

Bosch Rexroth AG | Germany

Practical Implementation of Functional Safety on Hardware and Software in Drive Technology

Peter Bernhardt

Mesco Engineering | Germany

Clarification of IEC 61508 for Automated Industrial Valves by EN 17955: Extra Effort or Relief?

Dr. Jörg Isenberg

AUMA Riester GmbH & Co. KG | Germany

IEC 61508 3rd Edition: What's New?

Gebhard Bouwer

TÜV Rheinland Industrie Service GmbH | Germany

End of 1st Day

Start of Evening Program

Program – Day 2

Start: 9:00 a.m.

PANEL DISCUSSION

More than 20 Years of Training in Functional Safety – What Remains and What does the Future hold?

Colin Easton

EFTAS | United Kingdom

Tino Vande Capelle

TVC | UAE

Ton Beems, Arjen de Koning

Yokogawa | Netherlands

Eugen Kull, Fred Stay

HIMA Paul Hildebrandt GmbH | Germany

Mirek Generowicz

I & E Systems | Australia

From Pain to Performance:

The Digital Transformation of Functional Safety

Marco Turdo

HIMA Paul Hildebrandt GmbH | Germany

Quantitative Risk Assessments integrating Functional Safety & Cybersecurity

Keerthy Mysore

Shakti Corp Pty Ltd | Australia

Embedding OT Cybersecurity in the Development of Automation Systems

Abdul Aziz Abri

Petroleum Development Oman | Oman

● COFFEE BREAK

Advances in the Correct Application of QRA for Large-Scale HIPPS Networks

Simon Clarke

Saudi Aramco | Saudi Arabia

Measuring and Assuring Systematic Capability through Life

Ben Easton

ProSalus Safety Consultants Ltd | United Kingdom

Avoid Reverse Engineering – An Overview of the Biggest Time and Resource Wasters in PLT Practice

Malika Mast

RAMSYS GmbH | Germany

Physical and Environmental Attack Vectors in Industrial Automation and Safety Systems

Kareem Abdelghafar

Worley GmbH | Germany

● LUNCH

Connect & Protect Architectures for Secure Data Transmission in Industrial OT

Jan Müsebeck

dacoso GmbH | Germany

How Good is Good Enough for AI to be Safe Considering ISO/IEC TS 22440 Requirements?

Dr. Patrik Feth

NewTec GmbH | Germany

Trustworthy AI and Functional Safety for autonomous/ cognitive Systems – The Way to the Solution with VDE-AR-E 2842-61

Frank Poignée

infoteam Software AG | Germany

● COFFEE BREAK

Patching as part of the Cyber Resilience Strategy – A Practical Report

Martin Falsner

Kontron AIS GmbH | Germany

Updates and Challenges in Safety Standards for Dynamically Stable Mobile Robots (Legged/Humanoids).

Federico Vicentini

Boston Dynamics | USA

End approx. 5:00 p.m.

