

Media Release

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Automotive cybersecurity for commercial vehicles: Building in security from the very outset

- Driventec offers comprehensive, field-proven cybersecurity solutions and services across its portfolio.
- Cybersecurity is an integral part of innovative products such as VEDS 1.5, VEDS 2.2, and DIWA NXT.
- Driventec is an experienced enabler and partner specifically for small and mid-sized OEMs.

HEIDENHEIM, GERMANY. UNECE regulations R155 and R156, along with ISO/SAE 21434, have fundamentally altered the requirements for cybersecurity in modern commercial vehicles. For vehicle manufacturers and automotive suppliers, cybersecurity is now a key component of product development and an important prerequisite for obtaining type approval for many vehicle platforms.

Since establishing a dedicated cybersecurity team in 2022, Driventec has been working on systematically integrating cybersecurity aspects into the development of its products and solutions. The meanwhile independent company uses its experience from the development of control units and drive systems for commercial vehicles to support OEMs, for example, with the integration of cybersecurity requirements in development projects – incorporating cybersecurity from the very outset.

Compliance with global standards across the entire product life cycle

The development of control units at Driventec is geared strictly towards the requirements of ISO/SAE 21434. As a result, all relevant cybersecurity aspects are considered and compliance with applicable safety standards is guaranteed across the entire product life cycle – from the initial concept through development, volume production and operation to the final decommissioning of the commercial vehicle.

“The systematic embedding of cybersecurity into the respective products is a crucial benefit offered by Driventec. Because at Driventec, automotive cybersecurity is not a retrospective add-on, but an integral part of

innovations such as the VEDS 1.5 and VEDS 2.2 electric drive systems, or the DIWA NXT automatic transmission,” stresses Jörg Maier, Senior Vice President Engineering, Testing and Purchasing at Driventic.

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Four field-proven core competencies from a single source

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Driventic’s comprehensive service portfolio in the field of automotive cybersecurity has been structured strategically into four field-proven core competencies from a single source:

1. Cybersecurity engineering & processes

The development of control units is based on the provisions of ISO/SAE 21434. As a result, cybersecurity requirements, risk analyses, and the documentation of security-related decisions are incorporated into the development process in a structured way.

2. Cybersecurity analysis

With the help of threat analysis and risk assessments (TARA), potential threats are identified and suitable protective measures determined. This supports the development of secure vehicle functions and electronic systems.

3. Security-by-design development

Cybersecurity requirements are already taken into account during the development of hardware and software. The technological priorities include secure flash, secure diagnostics, cryptographic algorithms, and protecting hardware.

4. Support with regulatory requirements

Driventic specifically supports OEMs with the implementation of regulatory cybersecurity requirements, deploying its entire experience from the development of vehicle architectures, control units, and drive systems.

Experienced enabler and partner for small and mid-sized OEMs

Small and mid-sized commercial vehicle manufacturers in particular are facing the major challenge of having to consistently meet ever more extensive cybersecurity requirements with their own limited resources. In this segment specifically, Driventic has already successfully helped numerous OEMs as an experienced enabler and partner. In the process, the company has demonstrated repeatedly that sound expertise in vehicle integration at hardware and software level is about more than just producing the necessary compliance documentation.

“The close intermeshing in all development phases and comprehensive understanding of vehicle architecture enable us to develop efficient cybersecurity solutions that not only meet regulatory requirements but also create genuine added value for the operational safety of commercial vehicles,” says Maier, reiterating the essence of the crucial competitive edge that Driventic offers its customers.

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More information on automotive cybersecurity and further innovations from Driventic: Live at IAA Transportation 2026 in Hanover from September 14–20 (Hall 11 / Booth B06).



Automotive cybersecurity by Driventic: Four core competencies from a single source.

About Driventic

Driventic is the specialist for efficient drive technologies in commercial vehicles. Whether for use in e-mobility or conventional drives, Driventic's complete systems and digital services are drivers of the mobility transition – because they enable manufacturers and operators alike to sustainably operate their trucks, buses, and off-highway vehicles. The company's 1,400 employees at 26 locations in 18 countries are dedicated to one mission: to combine ecology with technological progress in the service of efficiency.

This is what Driventic understands by 'Mobility beyond today'.

Driventic has been on the market since November 1, 2025. The company, which is based in Heidenheim, Germany, is a spin-off of parts of the drive systems division of international technology group Voith. All Driventic's products, systems, and digital services are technological refinements and advancements of Voith solutions.

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