

How ZEDEDA Empowered One of the World's Leading Auto Manufacturers to Power the Next Generation of Vehicles

Headquartered in Germany, this leading global automotive manufacturer is the second-largest car manufacturer worldwide and home to some of the world's most popular automotive brands.

With a vast, global network of 70,000 dealerships, manufacturing facilities, and service centers spanning 153 countries, the company has consistently demonstrated their commitment to technological innovation.

Challenges

The automobile manufacturer sought to modernize its software delivery and data management systems to meet new European cybersecurity standards under a tight deadline. Failure to comply with these standards would prevent the launch of its advanced vehicle fleet. This project aimed to address the following challenges:

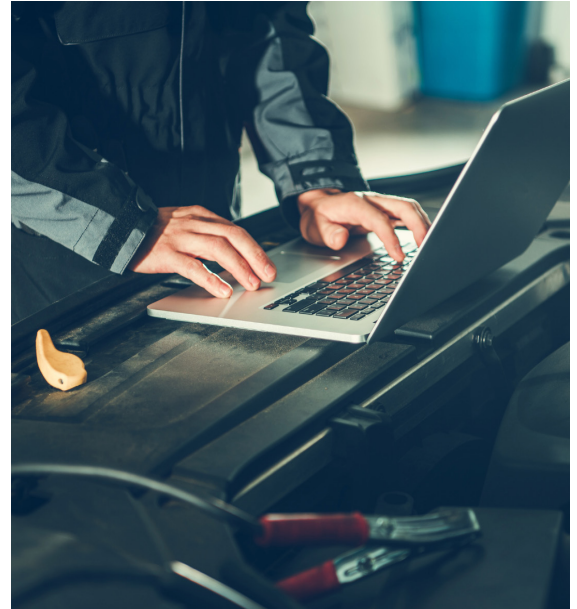
- **Outdated Infrastructure:** Existing systems lacked the memory and processing power required for modern software and data-intensive vehicles.
- **Regulatory Compliance:** The manufacturer needed to implement a certified cybersecurity management system in its vehicles to comply with new UNECE R155 regulations.
- **Global Scale:** The modernization effort involved overhauling infrastructure and systems across 70,000 dealerships, manufacturing facilities, and service centers in 153 countries.



Solution

ZEDEDA's solution provides a comprehensive edge orchestration and management platform that modernizes the automaker's infrastructure and addresses the following technical and logistical challenges:

- **Edge Compute Deployment:** ZEDEDA enabled the deployment of new edge compute servers across all global dealerships, providing the memory and processing power to support modern software and data-intensive vehicles.
- **UNECE R155 Compliance:** ZEDEDA's centralized, encrypted operating system and zero trust security architecture met UNECE R155 cybersecurity system standards.
- **Global Orchestration and Management:** ZEDEDA provided a single dashboard for remote management and maintenance of 70,000+ deployments, including integration with Fortinet Next Generation Firewall, reducing the complexity of disparate ICT hardware through abstraction and virtualization.



Expected Results

With ZEDEDA, the automobile manufacturer is poised to achieve significant advancements, including:

- **Global Software Delivery:** Deploying zero touch software updates and packages to its advanced vehicle models across 70,000 dealer locations worldwide.
- **Enhanced Cybersecurity:** Complying with European cybersecurity regulations and protecting the automaker's fleet from potential cyberattacks.
- **Global Reach and Security:** Securely managing edge devices globally, ensuring high cybersecurity standards and the safe distribution of OEM data.



About ZEDEDA

ZEDEDA makes edge computing effortless, open, and intrinsically secure – extending the cloud experience to the edge. ZEDEDA reduces the cost of managing and orchestrating distributed edge infrastructure, while increasing visibility, security and control.

ZEDEDA ensures extensibility and flexibility by leveraging a partner ecosystem, and EVE-OS, open-source Linux-based edge operating system.