

From Legacy System to Future-Ready Platform: tecRacer's Enterprise Solution for Faurecia

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Success Story: Faurecia Automotive Seating (FORVIA)



Faurecia Automotive Seating, part of the global FORVIA Group, designs and manufactures seating systems for the automotive industry. Its in-house software platform, HELIOS, manages worldwide project management and controlling of seat development projects — from planning and execution through to series production. Originally developed as a custom application, HELIOS has been in operation for more than 20 years. However, its underlying technology had become outdated: legacy server infrastructure, limited scalability, and rising maintenance costs increasingly put business continuity at risk.

Legacy Monolith Blocking Innovation and Operations

HELIOS had been built as a monolithic application, with tightly coupled modules that created bottlenecks in scalability and development. Planned operating system upgrades further complicated continued operation, while costs rose and flexibility declined.

Migration to AWS: Security, Performance, and Scalability at Scale

tecRacer designed a comprehensive modernization roadmap to gradually migrate HELIOS from on-premises infrastructure into AWS. Alongside the migration, the software architecture was fundamentally re-engineered — distributed, scalable, and future-proof.

The new solution follows a serverless-first approach built entirely on AWS Managed Services. Existing modules were decoupled into self-contained systems, reducing dependencies and accelerating innovation. An immediate result was a 30% reduction in the average response time.

A key benefit: a significantly improved user experience, achieved through tailored frontends designed for the needs of different user groups. Secure connectivity to Faurecia's internal network was ensured via a Site-to-Site VPN combined with an AWS Transit Gateway.

For 24/7 monitoring, security, and incident response, Faurecia relies on tecRacer's AWS-certified Managed Security Service Provider (MSSP) team.

Cloud-Native Architecture Unlocks Agility

With modernization, HELIOS is not just more secure and performant — it's also more adaptable. Development now follows a four-week release cycle, enabling continuous improvements. A gradual migration toward modern technologies secures long-term maintainability and innovation potential, for example extended connectivity with other corporate systems like Palantir, PLM systems and more. The volume of data built up over more than 20 years also forms an excellent starting point for AI-supported use cases.

tecRacer's incremental migration strategy also allows Faurecia to pause or stop individual steps if economic conditions change, while still enabling new business requirements to be delivered independently of the migration path.

Customer Perspective

Xavier Petitjean, Program Management System Director, Paris

"Beyond the many things we learned, and the countless ideas we exchanged and implemented, what will stay with me is the positive mindset and proactivity that the tecRacer team consistently showed — regardless of the situation or external circumstances."

Project Timeline

August 2023 to January 2025

Project Goals

- Reduce costs with efficient, cloud-native services and a serverless architecture
- Strengthen security with AWS Managed Services
- Boost performance
- Modernize the user interface
- Future-proof technology stack with modern programming languages
- Enable parallel operation of the legacy system and the new platform

tecRacer's Contribution

- Lift & Shift of the legacy application into AWS
- Decoupling into self-contained systems
- Serverless architecture leveraging:
 - Angular (Frontend)
 - AWS Lambda
 - ECS Fargate
 - Amazon RDS
 - Amazon DynamoDB
 - Amazon EventBridge
 - Amazon Athena
 - Amazon QuickSight
 - Amazon MQ
 - Amazon API Gateway
- Secure integration with Faurecia's internal systems via Site-to-Site VPN & Transit Gateway
- 24/7 Incident Response by tecRacer's MSSP team
- Four-week agile release cycle
- Support for gradual phase-out of CFML in favor of modern technologies

This is tecRacer

tecRacer stands for deep AWS expertise, a clear focus, and a partnership-driven mindset.

As the only AWS Premier Tier Services and Advanced Tier Training Partner in the DACH region, we support companies on their cloud journey – with pragmatic solutions, personal engagement, and a focus on real business impact.

Solution-oriented, passionate and with a healthy dose of pragmatism – this is how we create competitive advantages and ensure future security for our customers. With our team of experienced experts and a strong partner network.

Get to know our team, our values, and what drives us at www.tecracer.com or contact us at sales@tecracer.com.

