Luxoft
A DXC Technology Company

A Luxoft factsheet

In-vehicle platforms

Luxoft's In-Vehicle Platforms offering includes end-to-end software development for domains such as head-up displays (HUD), in-vehicle infotainment (IVI), advanced driver-assistance systems (ADAS), and autonomous driving (AD) functions

The challenge

Software and complex electronic control units (ECUs) are being used for an escalating number of important driving functions to ensure enhanced control, safety, stability and comfort of vehicles. Increasingly, these software capabilities are being used for competitive differentiation and meeting rising customer expectations. As such, automakers and their key partners need to be able to add intelligent and convenient new features into vehicle electrical/electronic (E/E) architectures. And they need to do so without compromising existing functions or cybersecurity while also conforming to automotive quality and safety requirements. We help automakers and key partners with challenges that include:

- The ability to integrate supplier software modules into different stack versions
- Standardizing OEM-specific interfaces for all suppliers to ensure reusability and portability of software modules
- Factoring in ECU requirements for different regions, climate and road conditions
- Embedding new features into vehicle architecture without compromising comfort or safety
- Evolving customized ECUs to provide intelligent and smart assistance/support
- Support for functional safety and/or cybersecurity requirements

Our solution

Along with helping to establish a clear roadmap towards production, our In-vehicle platform solution provides a modern, flexible platform for software development. This provides a foundational infrastructure from which automakers and their key partners can plan for the implementation of future applications, as well as add additional functionalities to ECUs. In turn, this enables continuous improvements and supports improvements to your TCO. We are fit for the future and the big, complex problems of modern mobility platforms.

Why work with us?

- Introduce a foundational infrastructure from which to plan and develop additional software functionalities
- Improve market competitiveness, innovation, and future-proof your production through new functions and applications
- Develop software-defined vehicles with the ability to introduce new features, and handle new levels of data
- A unified strategy and comprehensive view of vehicles to identify and resolve cases that could cause issues in the future
- Support for the delivery of a modern, flexible platform that enables continuous improvements, aligning with AUTOSAR architecture standards
- Automotive-grade software solutions that follow relevant and critical standards and protocols

What makes us different?

- We offer hands-on automotive experience, along with the ability to utilize best practices based on proven solutions
- We can be your companion for the entire software lifecycle, from development strategy and architecture guidance through to software production
- We bring high scalability, global support and localization capabilities with a delivery model that enables fast speed-to-market
- We are market-leading experts, consultants and providers of engineering services for the automotive standards software platform framework
- We are certified ASPICE and ISO 26262 experts

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