The Luxoft / Red Hat Partnership

Through the Luxoft and Red Hat partnership, we can help the automotive industry to be prepared for the future with an end-to-end offering to develop their software advantage and evolve their software-defined fleet and the development of software functionality for the vehicles onboard and offboard. With a cloud-agnostic solution that enables connections to hardware at any stage, Luxoft and Red Hat offer OEMs greater control over their data, and the freedom to extend their products.

The challenge

In a software-defined world, OEMs are seeking to minimize their reliance of Tier 1 suppliers and take greater control of software and the software cycle. This will require the creation of ecosystems that are not locked off from others. Open source and open systems – allowing for the continuous and iterative improvement – are critical to the next stage of automotive software development.

We help automakers and their key partners with challenges that include:

- Establishing greater control of software and the software development cycle to be able to offer higher value to customers.

- A need to standardize a wide variation of different hardware and software components, with the ability to customize and change production fast.

- Bringing cloud-native development nearer to the vehicle, decoupling in-vehicle hardware and software.

- Embracing open source communities and accessing the innovation they provide.

- Enabling OTA updates for more than fleet management backend services.

- Ability to integrate the heterogenous, distributed, and changing ecosystem in the development process.

The Luxoft and Red Hat solution

Our solution combines Red Hat's highly standardized, open source, and flexible architecture with Luxoft's advanced and automotive-specific software development capabilities. Together, we provide a single infrastructure for your development landscape – with one set of tools and one methodology that can be used across all programs.

Red Hat

Utilizing Red Hats highly scalable enterprise open source technologies for connected vehicle infrastructures and testing solutions combined in the future with the Red Hat In-Vehicle Operating System will provide an open, safe, and secure open source based platform laying the foundation for software-defined vehicles and enabling fast innovation from vehicle to cloud and back.

Luxoft

Luxoft provides a full range of solutions and system integrations across in-car, cloud, and development platforms that enable the transformation towards software defined vehicles. These services and applications can include AD/ADAS, IVI, advanced diagnostics, AI/ML, ECU software development and integration, simulations and testing, and more.

Why work with Luxoft and Red Hat?

Be truly prepared for the future with an innate software advantage

- Build long-term relevancy with customers with a common open source based platform.

- Enable standardization, so your Tier 1 partners can focus on developing products.

- Optimize development through modern toolchains and DevSecOps methodologies.

- Use open source-based technologies to prevent bottlenecks caused by resource availability.

- Scale to an industrial level with a model that includes verification and validation processes.

- Bridge vehicle onboard and offboard with consistent technologies and leverage synergies, e.g. for ARM architecture and developer parity like development in the cloud.

Gain higher levels of command and control over data streams and ecosystems

- Build more strategic partnerships with OEMs, Tier 1s, and hyperscalers, without giving away control.

- Increase flexibility and scalability, avoiding vendor lock-ins and dependencies.

- Develop new functions, features, and revenue streams aligned to business strategy.

- Introduce open source interoperability to vehicles easily.

- Use state-of-the-art technologies and products by combining the innovation speed of open source with enterprise-grade support, hardening, and maintenance.

Move faster and accelerate critical areas of innovation and differentiation

- Use our open architecture to build your own differentiating functionalities.

- Get new offerings to market quicker, with reusable software components.

- Increase your speed of innovation, while maintaining legacy integrations.

What makes the Luxoft and Red Hat partnership different?

- Our partnership covers vehicle onboard and offboard technologies to drive software-defined changes.

- Together, we provide the foundation for an innovative standardization approach to software-defined vehicles.

- We know where and how data can be generated and used in an automotive-specific way.

- Luxoft is a trusted partner within the automotive industry, renowned for its experience with automotive software development and with software-defined vehicles.

- Red Hat is well known as the leading open source company, for driving innovation with and for Linux, in software development, hybrid and multi cloud environments, data centers and the EDGE.

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