

Aptiv Automotive Services

Software-Defined Vehicle and Roadmap Acceleration

MAPPING THE JOURNEY TO SOFTWARE-DEFINED VEHICLES

As OEMs embrace a software-first approach to developing next-generation products, they encounter a range of challenges. OEMs want to maximize software reuse, maintain hardware independence, reduce total lifecycle costs and avoid vendor lock-in — all while managing increasing system complexity.

Flexible configuration tools, integrated data collection, modular and containerized middleware, and a common software framework across platforms can make a difference. With expert assistance, OEMs can speed the development and validation of software-defined features, deploy applications safely and reduce the overall total cost of ownership. Among the services offered:

Domain-Specific Proofs of Concept

- Validate technical feasibility earlier, identify integration issues earlier in the development process, and inform architecture and platform decisions
- Conduct discovery and define success criteria
- Demonstrate potential software solution's feasibility and performance
- Provide flexible communication and platform middleware blocks

Why Aptiv?

Aptiv is a trusted, strategic partner uniquely positioned to accelerate your journey toward the software-defined vehicle. With years of sustained investment and a dedicated team of over 300 experts, we bring proven readiness — demonstrated by upcoming SDV launches on OEMs. Our robust portfolio builds on Aptiv's deep heritage in body computing and globally deployed vehicle software. It is supported by a modern, scalable, service-oriented architecture designed for flexibility and future growth. What sets Aptiv apart is the combination of deep automotive expertise with Silicon Valley innovation — enabling us to deliver high-quality, production-ready solutions at scale. We offer strategic flexibility, collaboration on solution ownership, and go-to-market models that align with each customer's business goals.

Interested? Contact Aptiv today to learn how to get started.

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Application Migration and Middleware Porting

- Adopt code reuse with minimal rework, reduce vendor lock-in by decoupling software from specific system-on-a-chip (SOC) and operating system platforms, and get to market sooner
- **Lift-and-shift approach:** Migrate any sort of relevant application, including third-party applications, ranging from legacy architectures to Aptiv software-defined vehicle (SDV) infrastructure
- **Rearchitect approach:** Provide customers with guidance and comprehensive support to rearchitect their applications and third-party applications to work more natively with Aptiv SDV infrastructure
- As appropriate, migrate AUTOSAR Classic Platform applications to an SDV architecture
- Enable migration of platform and communications middleware to new systems-on-a-chip or operating systems by delivering code changes, toolchain modifications and validation of software on new SoCs, using a standard test suite
- Provide new binaries and documentation
- Pre-certify camera-based occupant-detection systems