

Aptiv Automotive Services: New Android IVI Applications

BUILD NEW, AUTOMOTIVE-GRADE ANDROID APPS FROM THE GROUND UP

OEMs frequently require custom-built Android applications to deliver tailored and brand-specific user experiences. These applications often must integrate deeply with vehicle systems, support unique infotainment features and comply with stringent safety and usability standards. Building, validating and maintaining these apps across diverse platforms and hardware configurations is accompanied by significant complexity and risk.

To address these challenges, Aptiv partners with OEMs to design, develop and deploy custom Android in-vehicle infotainment (IVI) applications that are modular, scalable and compliant with regulations — delivering production-ready user experiences.



Requirements and Design

- Comprehensive requirements analysis across infotainment, connectivity, safety and human-machine interfaces
- Translation of business goals into technical specifications for automotive-grade Android applications



Application Architecture and Development

- Modular, scalable architectures built for Android Automotive OS and custom OEM platforms
- Support for Google Automotive Services integration, hardware abstraction layers and adaptive designs for diverse vehicle models and screen sizes



Validation and Deployment

- Rigorous unit, integration, compliance and stress testing against Google, OEM and automotive safety standards
- Securely provisioned, signed and validated applications for smooth deployment across production vehicles



Business Outcomes

- Innovative, differentiated in-vehicle experiences
- Ensured compliance with Google, OE, and automotive standards
- Guaranteed smooth platform integration and deployment readiness