



Acsiä

Technology that drives Tomorrow

Android Automotive Expertise

Ushering in a New Era of In-Vehicle Experiences.

Android Automotive has emerged as a pivotal force in reshaping the in-vehicle experience. By harnessing the Android applications ecosystem, the platform unlocks a plethora of functionalities and services readily accessible to drivers and passengers.

From industry-leading tools like Google Maps and Google Assistant, the platform empowers users

with a familiar and intuitive interface, replicating the convenience of their everyday digital lives.

By embracing over-the-air (OTA) updates and ensuring a dynamic and ever-evolving user experience through continuous innovation and feature enhancements, Android Automotive eliminates the limitations of static infotainment systems.





How Acsia Can Help?

Acsia's Android Automotive capabilities cover the entire stack including Human-Machine Interface (HMI), vehicle networking, system health, connectivity, storage & persistence, display video & graphics, and more.

Customized Android Automotive Platform Development

Expertise in adapting Android Automotive to OEM-specific use cases in audio, media, power management, ethernet, Bluetooth, and persistence domains.

Virtualized Android Platform Development

Enabling SW development without having target HW.

Advanced Driver-Assistance System (ADAS) Integration

Drive flawless communication and data exchange between OEM's Android IVI system and ADAS features, enhancing safety and driver experience.

CI/CD/CT Infrastructure

Enables faster rollout of features and a shift left approach in development with early detection of bugs. Over-the-Air (OTA) Updates: OTA updates, keeping software current and addressing potential issues remotely.

Human-Machine Interface (HMI) Application Design & Development

Create an intuitive and visually appealing HMI layer that integrates seamlessly with the Android experience, prioritizing driver focus and safety. In-house developed automated HMI testing application that can be integrated into CI/CD/CT pipelines.

Over-the-Air (OTA) Updates

OTA updates, keeping software current and addressing potential issues remotely.

Acsia's Android Automotive capability brings to OEMs the full-throttle power to ditch limited, outdated in-vehicle infotainment systems and reimagine in-vehicle experiences by unlocking a world of personalization, intuitive interfaces, and a thriving app ecosystem.

Optimization for OEM HW and SoC

Vast experience optimizing graphics, display, drivers, and startup for SoC; OEM-specific HW adaptations and integrations with vehicle sensors.

Security & Compliance Expertise

Expert guidance in ensuring OEM Android Automotive system adheres to industry security standards and regulatory requirements.

App Store Management & Curation

Support OEM to curate a relevant and engaging app selection for the in-vehicle app store, catering to the specific needs and preferences of the target audience.

Google Mobile Services (GMS) Certification

Deep knowledge in developing a platform adhering to CDD (Compatibility Definition Document) and automated test suites (CTS, VTS) to obtain certification ensuring an exceptional user experience.

Why Acsia?



Since 2017 with AAOS

Acsia has delivered Android Automotive projects since its launch by Google and Intel in March 2017.



Android Centre of Excellence

An in-house platform team focusing on productizing the AAOS platform stack (Android 13, 14 & 15) for OEMs.



Virtual Cockpit Development Environment

Acsia has invested in an AWS Graviton environment for seamless development.



Automated CI/CD/CT Pipeline

An automated CI/CD/CT pipeline for digital cockpits based on Jenkins, Zuul, and Robo; and Google test suites (CTS & VTS).



Performance Tracing & Profiling Suite

Extensible and configurable System Health Tracing & Profiling Suite built in-house enabling Boot and Application Tracing, CPU, Memory, Stack Profiling, and NVM / Flash Dump Analysis.



What's In It For You



Enhanced User Experience

Android Automotive offers a familiar and intuitive interface for users accustomed to the Android ecosystem. This translates to quicker adoption and a more enjoyable in-vehicle experience, potentially boosting customer satisfaction and brand loyalty.



Reduced Development Costs

Leverage the power of Android's existing codebase and infrastructure, minimizing development time and resource allocation.



Faster Time-to-Market

By utilizing the established Android framework, OEMs can expedite the development process for in-vehicle infotainment systems, capitalize on emerging trends, and deliver cutting-edge features quicker, enhancing competitiveness.



Continuous Revenue Opportunities

Benefit from a vibrant app ecosystem, opening doors to new revenue streams through in-car app purchases and subscriptions.



Future-Proof Technology & Continuous Innovation

Android Automotive embraces over-the-air (OTA) updates, ensuring the infotainment system receives continuous improvements and security patches throughout its lifespan.

About Acsia Technologies

Acsia is a global leader in automotive software powering Digital Cockpits & Displays, e-Mobility, and Telematics. We use our expertise to develop tools and platforms that simplify complex problems and create safer, sustainable, and more compelling driver and passenger experiences. With a presence across the United States, Germany, Sweden, Japan, and India, we collaborate with top car makers and Tier-1 suppliers.



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