

# Telematics

Facilitating the connected car revolution and smarter roads.

Connected cars are taking over, driven by consumer demand and technology leaps. More and more software is increasingly becoming a reality in telematics control units (TCU) due to advanced features like V2X, increased security, requirements for Over-The-Air (OTA) updates, and a high degree of precision positioning.

V2X goes beyond comfort and safety, promising a 20% reduction in traffic snags and pollution, and another 80% in accidents. While TCU development and testing present challenges, the future is connected. It warrants expertise in protocols and systems, efficient integration and performance optimization.



# How Acsia Can Help?

## Telematics Testing

Deep understanding of cellular technologies, GPS protocols, Bluetooth and in-vehicle sensors, and expertise in software, vehicle and simulation testing.

- Vehicle & Field Testing
- Connectivity Testing
- Application Testing
- Test Management
- Integration and Test Automation
- Certification Test
- Over-The-Air (OTA) Testing (SOTA & FOTA)

## Telematics ECU Development

Knowledge of embedded systems and communication technologies, to enable remote diagnostics, connect car features, and GPS tracking.

- Mobile Telephony and V2X Stack Integration
- SOTA & FOTA
- eCall (Regulatory/OEM) Stack Integration
- Secure RUST-based UDS stack
- Vehicle Integration
- Cloud Data Collector
- Protocols (MQTT, Zenoh, QUIC)

## XACT Fleet Telematics

A white labelled SaaS product for smart fleet management.

- Driver and Fleet Monitoring
- Comprehensive Trip Management
- Real-time vehicle data acquisition
- Live vehicle dashboard
- Real-time Alerts and Notifications
- POI and Precise Navigation





## DILJITH MUTHUVANA

Head of Telematics & Connectivity Solutions  
With Acsia since 2015



As telematics and V2X become table stakes in the connected car era, they are inadvertently ushering in the age of Intelligent Transportation Systems. This emerging outcome necessitates the convergence of technologies from OEMs, Tier-I suppliers, telecom providers, insurers, and software developers. For a decade, Acsia has collaborated with these stakeholders to enhance the safety of drivers and passengers, ensure compliance with regulators, and facilitate seamless integration with other safety and driver assistance systems.”

### OEM Production Program Experience



### Tier-I Experience



# Why Acsia?



## Telematics Data Management & Analytics Expertise

Proven ability to securely collect, manage, and analyze data from connected vehicles unlocks insights for fleet management, predictive maintenance, and personalized services.



## Cloud Integration and Big Data Analytics

Expertise in integrating Telematics and V2X data with secure cloud platforms enables scalability, advanced analytics, and future service development.



## Functional Safety & Cybersecurity Certifications

Mastery of functional safety standards (ISO 26262) and cybersecurity protocols ensure sensitive vehicle and user data transmitted through Telematics and V2X systems remain protected.



## Agile Development & Global Delivery

Proven experience in agile development methodologies and the ability to deliver projects through a global talent pool ensure efficient project management, cost optimization, and faster time-to-market.



## Regulatory Compliance Expertise

A thorough understanding of evolving regulations and standards governing connected vehicles' data privacy and safety, such as GDPR and ISO standards, ensures 100% compliance and avoids legal roadblocks.



## State-of-the-art Telematics Testing

World-class test infrastructure for executing V2X testing supporting DSRC, C-V2X, and AR-V2X, application testing, and real-time/offline feature validation using big data and cloud.



# What's In It For You



## Enhanced Vehicle Connectivity and Data Insights

Acsia's expertise in telematics data management and V2X communication unlocks valuable insights from connected vehicles leading to improved fleet management, predictive maintenance, and personalized services.



## Improved Safety and Traffic Efficiency

Acsia's V2X communication software facilitates car-to-car and car-to-infrastructure communication, enabling real-time data exchange for safer roads, reduced traffic congestion, and improved accident prevention.



## Faster Development and Cost Optimization

Benefit from Acsia's pre-developed software components and efficient processes to accelerate time-to-market for your Telematics and V2X solutions while reducing development overhead compared to in-house efforts.



## Scalable and Secure Cloud Integration

Acsia's solutions enable secure cloud integration for connected vehicle services ensuring scalability and robust security for your telematics and V2X data.



## Future-proofed Platform for Next-Gen Mobility

By engaging Acsia, you gain access to cutting-edge technologies that support future advancements in connected and autonomous vehicles, keeping your platform at the forefront of the mobility revolution.



## New Revenue Streams with Connected Car Services

Acsia's Telematics and V2X solutions can pave the way for innovative connected car services like usage-based insurance, personalized navigation, and real-time diagnostics, opening up new revenue streams.



## 100% Peace of Mind

Acsia's in-depth knowledge of functional safety standards, data privacy, and cybersecurity regulations ensures absolute compliance and zero hassles with regulatory authorities.

## 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 solutions 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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