



Connected Vehicle Testing

Driving automotive innovation
with confidence

Global interoperability
Ensure interoperability
globally across diverse
networks.

Certification and compliance
Efficiently manage diverse
certification and compliance
needs to launch in any
country around the world.

Reduce time to market
Reduce time to market and
after sales support costs
through optimized quality
assurance.

Ericsson Connected Vehicle Testing

As the Internet of Things (IoT) transforms society the automotive industry is leading the way with the adoption of wireless technologies.

Consumers have high expectations for connected vehicles to seamlessly integrate with the rest of their life and demand faultless performance.

Through the Ericsson Connected Vehicle Testing solution Ericsson is committed to providing automotive manufacturers services to optimize performance, enhance customer experience, reduce post launch operational expenses, and ensure compliance to network and regulatory requirements globally for connected vehicles.

The Ericsson Connected Vehicle Testing capabilities are supported by a global network of best-in-class testing facilities that enable automotive manufacturers to launch solutions with confidence.



Verification services

The Ericsson Connected Vehicle Testing platform supports the following services:

TCU testing

Assures the interoperability and optimal performance of the Telematics Control Unit (TCU) with the actual mobile network infrastructure found in different operator networks around the world to support commercial launch with the ability to replicate issues seen in the field to identify root causes and develop fixes.

Wi-Fi hotspot testing

Establishes the best location for the hotspot, optimizes Wi-Fi performance and minimizes RF interference to deliver superior customer experience.

Application verification

Tests address quality issues within infotainment systems covering application functional testing, application responsiveness together with GUI look and feel testing. Quantifies application performance through key metrics such as latency, uplink, downlink, signaling etc.

Live network testing

Test interoperability of connected vehicles and embedded electronics with different mobile networks around the world at speed on a test track using configurable Ericsson mobile infrastructure.

Connected traffic

In this test package Ericsson will test connected vehicles with connected traffic solutions from Ericsson and/or third parties covering Vehicle to Infrastructure (V2I) and network-based Vehicle to Vehicle (V2V).

Security

Connected vehicle connectivity and application security testing covering remote wakeup, insecure firmware, local data storage, insecure web interfaces, insecure network services, insecure communication and insecure authentication. Test TCU per CTIA Cybersecurity Test plan in Ericsson CTIA Authorized Test Lab (CATL).

Global certification

Global connectivity and certification services are provided to support the global launch of connected vehicles. The service involves working to get the connected vehicle device components such as the TCU certified for commercial launch globally in any country and managing the certification renewals.

- Ensure interoperability globally across diverse networks.
- Perform reliable testing on actual mobile network infrastructure rather than inferior simulation testing.
- Optimized test plans based on field experience.
- Access to the latest network features and services, often before commercial launch.
- Efficiently manage diverse certification and compliance needs to launch in any country around the world.
- Reduce time to market and after sales support costs through optimized quality assurance.