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Connected Vehicles

Development and Validation of 5G Applications

YOUR PARTNER IN SIMULATION AND VALIDATION

dSPACE

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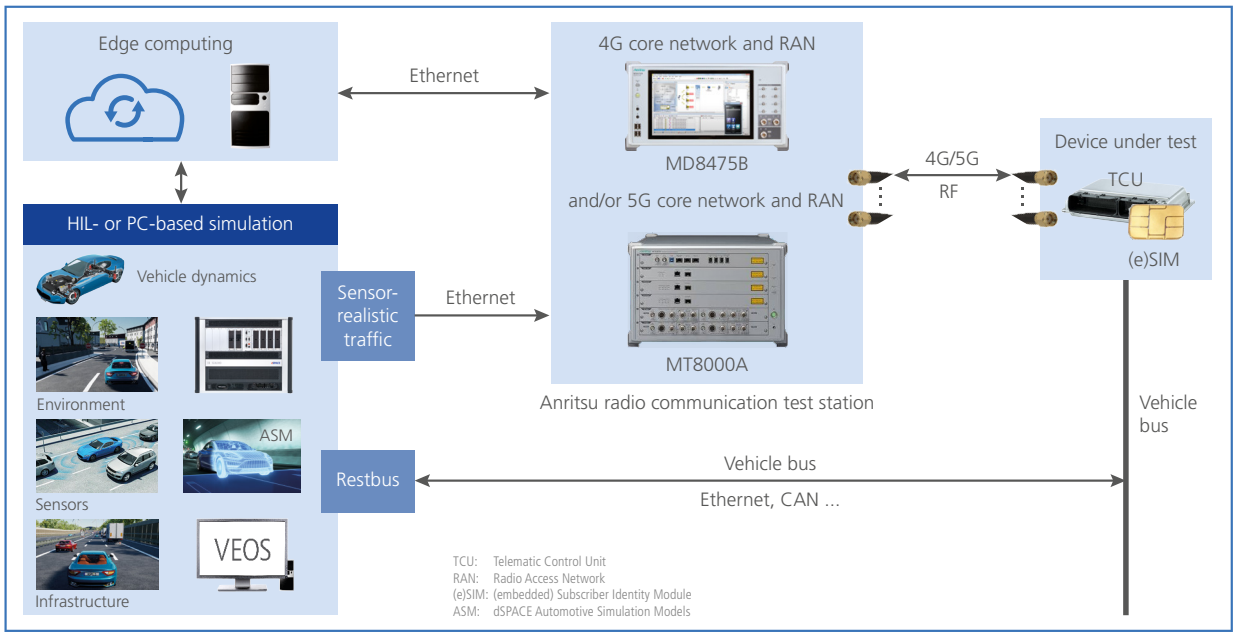
The combination of 5G and edge computing promises high data throughputs and low latencies with potential for completely new automotive applications to share high definition sensor data and computing power with vehicles and infrastructure in real-time. This will enable collective perception, swarm intelligence based on shared AI and traffic optimization to make automated driving more comfortable, greener, and even safer. The unparalleled integration of the Anritsu Radio Communication Test Station for LTE and 5G (standalone or non-standalone, according to customer needs) with the dSPACE SCALEXIO HIL and PC-based simulation systems allows for early development and end-to-end validation of cutting-edge applications for connected and cooperative automated driving, without having to depend on local 5G test sites and infrastructure.

Schematic Setup



Highlights

- Unique HIL and PC-based simulation system integrated with Anritsu's mobile network emulator
- Realistic LTE and 5G (SA or NSA) simulation for conducted and antenna-based setups
- Early development of automotive applications powered by 5G and edge computing
- Validation of entire vehicle-to-network (V2N) processing chain
- State-of-the-art sensor-realistic traffic and vehicle simulation
- Seamless integration with dSPACE solutions for automated driving

Why dSPACE?

- Global partner and solution supplier for developing and validating software for autonomous driving
- Integrated end-to-end development and test environment
- Highly scalable and reliable solutions from on-premise to cloud applications
- Long-standing expertise and industry-proven solutions
- Unparalleled solution portfolio for data-driven development and validation
- More efficiency, productivity, and reliability for innovations in autonomous driving