TAP
Test Automation Platform

Our Test Automation Platform (TAP) is a reusable framework and software suite for test automation and scalable test bench maintenance. It provides a seamless way to generate and run tests, with the ability to share, monitor, and control any given Electronic Control Unit (ECU) with global remote access to a single, low-code user interface. It offers a reusable infrastructure, reference libraries, and proven processes that can sit at the heart of all future testing activities.
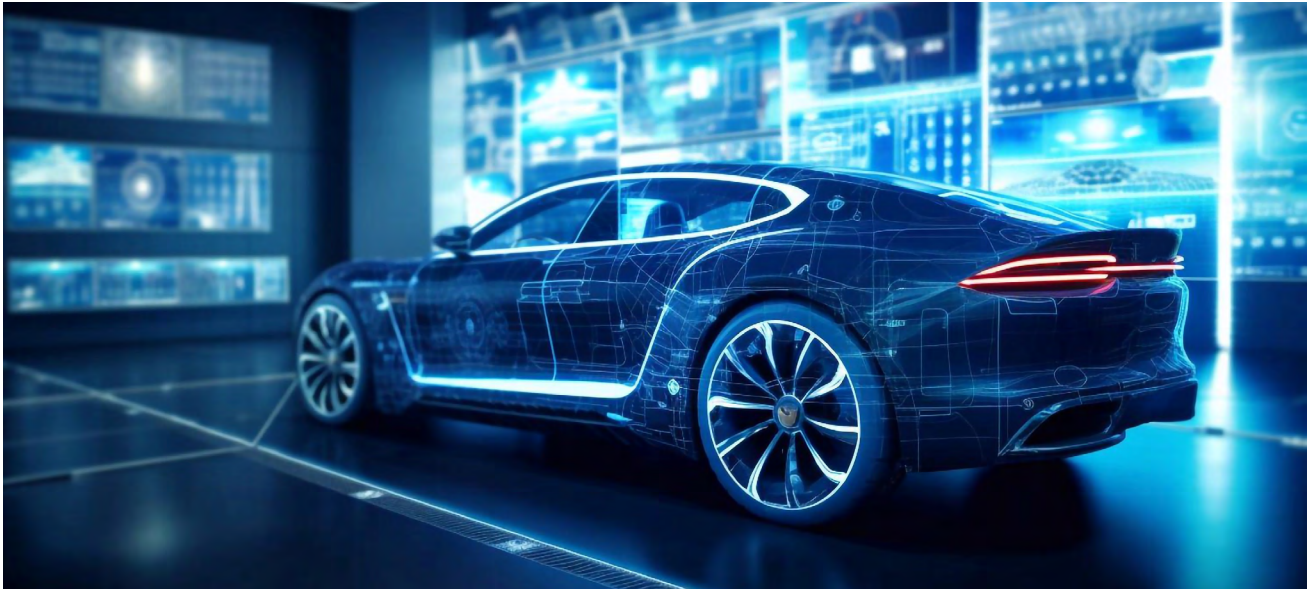
The challenge

As vehicles become increasingly intelligent and interconnected, so too has the complexity of testing. Ensuring the safety, performance, and functionality of critical hardware and software requires every component to be rigorously tested hundreds of thousands of times before production. We help automakers and their key partners who need a modern, intelligent, and scalable testing automation platform for complex automotive software solutions, as well as help with challenges that include:

- Meeting increasing product, configuration, functionality, and supplier complexity
- Increased levels of testing required in a shorter space of time and at a lower cost
- Improving the ability to detect and resolve challenges relating to holistic quality
- Poor test automation coverage
- Undefined quality gates across testing levels

Our solution

Using our Test Automation Platform paired with 24/7 remote accessibility, OEMs and Tier 1s can reduce the need for repeated test setups and receive feedback from testing earlier. It also enables testing capabilities to be scaled easily, increasing the output of test results. Through the remote operation of single laboratory test benches that otherwise have to be physically operated on-site, TAP helps to significantly reduce the time, effort, and costs of testing automotive systems and accelerate their time to market.

Why work with us?

- Improve time to market by developing a shift-left, domain-specific automation approach to accelerate software development cycles.
- Identify bottlenecks and find and prevent defects early rather than remove them at significant expense post-production.
- Reduce the effort of testing and reduce overall production costs using automated test solutions to industrialize test farms in automotive test center environments.
- Share, monitor, and control Devices under Test (DUTs) remotely, with 24/7 cloud-based access.
- Reuse infrastructure, including core components for servers and test nodes, rather than use an isolated, project-limited bench testing approach.
- TAP uses a low-code environment that can be used by testers in lower-cost regions without the need for high levels of technical proficiency.

What makes us different?

- We have hands-on automotive experience and can utilize best practices based on proven solutions.
- Our delivery model enables fast start and speed-to-market, with domain experts available from the best cost locations, close to key design and development centers.
- We have strong expertise across the whole software-defined vehicle lifecycle and a holistic approach to quality, with a long history of testing experience.

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