# The Automotive Test Suite will be used by the BMW Group and its suppliers in the future, for ECU testing a new generation of vehicles.

**Dresden, February 23, 2022. The Automotive Test Suite (AmTS) is based in TraceTronic's Automotive DevOps platform and defines a quality assurance technology stack for new hardware and software releases for the BMW Group. A high degree of automation supports the continuous development process across the interface between supplier and vehicle manufacturer. The goal is to ensure high quality software and significantly reduce development time.**

The car of the future is software-driven: intelligent driving functions, networked services, and regular updates are defining the automotive market. The software required for this is developed both by the manufacturers themselves and by various suppliers. A significant increase in software in increasingly networked vehicles and its ever increasing contribution to value creation call for optimized collaboration between the partners involved. New solutions are needed to make this more efficient.

With AmTS, a quality assurance technology stack is being established at the BMW Group for software and hardware releases for control units. The basis for this are the tools ECU-TEST, incl. TRACE-CHECK and TEST-GUIDE in the Automotive DevOps platform from TraceTronic. The process is simple: for each ECU, relevant test plans are implemented in the ECU-TEST test automation tool and executed automatically. Clear test reports are generated for the results, which can be seamlessly imported into the test report management system TEST-GUIDE and then re-evaluated. The relevant data is available via this web application – so that everyone involved always has an overview.

Suppliers are seeing the benefits of using these tests continuously throughout development – known as Continuous Testing. Continuous repetition of the tests ensures constant and rapid feedback to developers. If small changes are required, they can be introduced into the development cycle and implemented without any loss of time. The meaningful test reports facilitate analysis to determine the cause of any deviations. If the test hardware proposed by the BMW Group is not to be used for the execution of the tests, a simple adaptation for the existing test infrastructure is possible for any given project.

Matthias Roch, Head of Testing & Validation at TraceTronic GmbH:
"With our Automotive DevOps platform, we have the necessary tools to ensure software quality at all times in the continuous development process. They enable continuous builds and continuous testing within AmTS, across company boundaries, and provide developers with rapid, customized feedback."

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**About TraceTronic:** Founded in 2004 as a university start-up at the TU Dresden, TraceTronic has since developed into a global company. It now has over 300 specialized employees, students and trainees, and the growth trend is continuing in 2022. TraceTronic, headquartered in Dresden, has additional locations in Ingolstadt, Munich, Stuttgart, as well as in the USA and Korea. Thanks to our continued proximity to universities, we are able to research new techniques and design innovations within the framework of various research projects.

TraceTronic supports more than 150 companies in the international automotive and supplier industry with software products and innovative solutions for the development and safeguarding of complex embedded systems in vehicles. Using the latest technologies and methods, as well as the integrated software tool chain, sustainable solutions for the fully automated testing of ECU software on different platforms are designed and seamlessly integrated into existing process chains.

The ECU-TEST, TRACE-CHECK and TEST-GUIDE tools, as well as the Automotive DevOps Platform based on the tool chain, are used in over 30 countries worldwide – including in Silicon Valley. Companies such as Audi, BMW Group, Bosch, CLAAS, Continental, Daimler, Denso, Ford, Geeley, IAV, John Deere, Magna, Porsche, Rivian, Siemens and Volkswagen rely on TraceTronic's technical expertise and years of experience in agile working methods.

More information about the company and solutions is available at www.tracetronic.com.