

# Media information



July 30, 2021

## Volkswagen and TraceTronic establish neocx – a joint venture for automated software

- The partners are building a platform for highly automated testing and integration of vehicle software and digital functions (so-called CI/CT Factory).
- Volkswagen wants to speed up the development of digital functions with CI/CT Factory
- TraceTronic expands its capacity to provide end-to-end solutions for global manufacturers by implementing the CI/CT Factory for Volkswagen

Wolfsburg/Dresden – Volkswagen is strengthening its competencies for integrating software in vehicles. Today, high-performance vehicle functions can be implemented only through the networked synergy of many individual software and hardware components. Bringing these components together and testing them as a whole is becoming a key development task for Volkswagen. With its ACCELERATE strategy, Volkswagen aims to extend software integration into the vehicle and thus the digital customer experience into core competencies. For this purpose, the company has established a joint venture with TraceTronic, a leading global provider of solutions for testing and integrating vehicle software

. Each partner holds 50 percent. The joint venture neocx will establish a so-called Continuous Integration/Continuous Testing (CI/CT) Factory.

This is a platform that combines powerful tools for highly automated testing and integration of vehicle software and networked services. In this way, Volkswagen aims to speed up the development of digital functions, including "over-the-air" updates that Volkswagen provides to owners of ID.vehicles every three months. Before that, the updates are integrated and tested by neocx solutions. This makes the new joint venture a basic building block in the development process.

Thomas Ulbrich, Volkswagen Board Member for Technical Development: "With ACCELERATE, we have set ourselves the goal of developing the automobile into a software-based product. Efficient and secure software integration into the vehicle is becoming a key competitive factor for Volkswagen. With our new joint venture neocx, we are laying an important foundation stone to strengthen our expertise in this area and offer our customers a first-class digital driving experience."

Rocco Deutschmann, CEO of the TraceTronic Group: "We are pleased that Volkswagen is going to build and operate a large scale implementation of a CI/CT Factory with TraceTronic for Volkswagen and Volkswagen suppliers. With our TraceTronic software tools and know-how, we help our customers all over the world to continuously integrate and test vehicle software using state-of-the-art methods."



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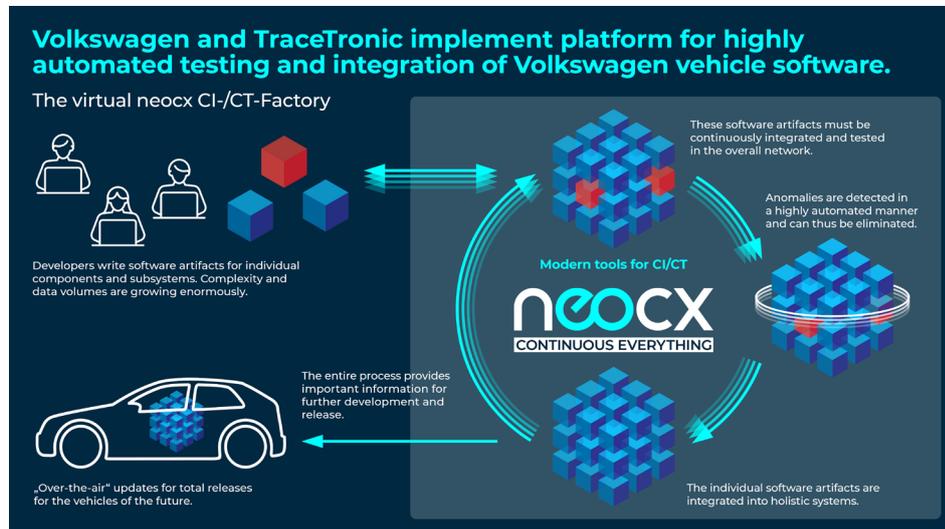
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With the CI/CT Factory, neocx implements a platform that combines powerful tools for highly automated testing and integration of vehicle software and networked services.

## Significantly shorter development cycles and faster updates

The neocx CI/CT Factory is intended to provide scalable development and testing tools that take into account the exponentially increasing software scopes and data volumes in the fully networked vehicle. With the CI/CT Factory, individual software components will be linked at an early stage of development to form holistic systems – such as driver assistance systems – and tested for compatibility and performance. TraceTronic's high-performance solutions serve as the basis, and the partners also intend to continuously expand the platform's range of functions. New technologies and test methods are used, for example, from the areas of machine learning, data analytics and scenario-based testing. The consistent use of cloud technology also enables a highly scalable environment for virtual testing and integration.

## CI/CT Factory combines test and integration landscape

Volkswagen already has access to Group synergies in software development for its fully networked vehicles. The Group's own software company CARIAD is developing a uniform software platform for the vehicles of all Group brands. neocx is another building block in the Volkswagen brand's path to becoming a software-oriented mobility provider and aims to integrate the digital functions developed by CARIAD into Volkswagen models, test them in a highly automated manner, and bring them to customers even more quickly. Volkswagen is working closely with Audi and Porsche on these activities. In the future, the CI/CT Factory will also be used for the sister brands, thus harmonizing the testing and integration landscape in the Volkswagen Group. The uniform interfaces also enable the integration of development partners and suppliers, as well as third-party tools.

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Work on the CI/CT Factory is starting immediately. neocx will work based on agile methods and the number of employees is expected to grow to a three-digit number in the next few years. For this purpose, the newly established company is looking for specialists for its main location in Dresden and for the Wolfsburg branch.



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TraceTronic is a leading international solution developer for automated testing and integration of vehicle software. TraceTronic handles the increasingly complex vehicle functions and the exponentially increasing data volumes with consistent automation and a framework that is also capable of integrating heterogeneous software landscapes. TraceTronic's solutions, processes, methods and tools have been accepted worldwide for vehicle software integration and testing.

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The Volkswagen Passenger Cars brand is present in more than 150 markets worldwide and produces vehicles at more than 30 locations in 13 countries. Volkswagen has delivered around 5.3 million vehicles in 2020. These include bestsellers such as the Golf, Tiguan, Jetta and Passat, as well as the successful fully-electric ID.3 and ID.4 models. Around 184,000 people currently work at Volkswagen worldwide. In addition, there are more than 10,000 dealers and service partners with 86,000 employees. With its ACCELERATE strategy, Volkswagen is consistently driving its development into becoming a software-oriented mobility provider.

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