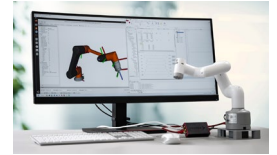## Simulate and Test DDS Applications Faster and More Efficiently With the New CANoe Option DDS

Stuttgart, Germany, 2025-07-28 – Vector is expanding its proven development and test environment CANoe to include support for the communication standard DDS (Data Distribution Service). CANoe.DDS allows users to simulate, analyze, and test DDS-based systems seamlessly within the familiar CANoe environment. The new option is now available and targets developers and testers of distributed systems in the automotive, medical technology, and Industry 4.0 sectors.

CANoe.DDS can be used to quickly simulate DDS participants (Domain Participants), adopt existing IDL descriptions, and automate complex tests via CAPL, C# or Python. The graphical display of DDS and Ethernet communication in the Trace window, along with the simple configuration via a text-based language, makes work much easier. CANoe.DDS supports all QoS parameters (Quality of Service parameters) of the OMG DDS standard and enables direct integration into ROS2 environments, making it ideal for hybrid systems and early SIL tests. The supported DDS Security Extension enables testing of applications in vulnerable areas.

DDS is an ideal communication platform for distributed systems and applications that place particular emphasis on robustness, safety, and scalability. Key features include a flexible publish/subscribe architecture, scalability, high efficiency, interoperability, and the versatile configurability of QoS parameters. For these reasons, DDS has become the standard protocol in many different domains.

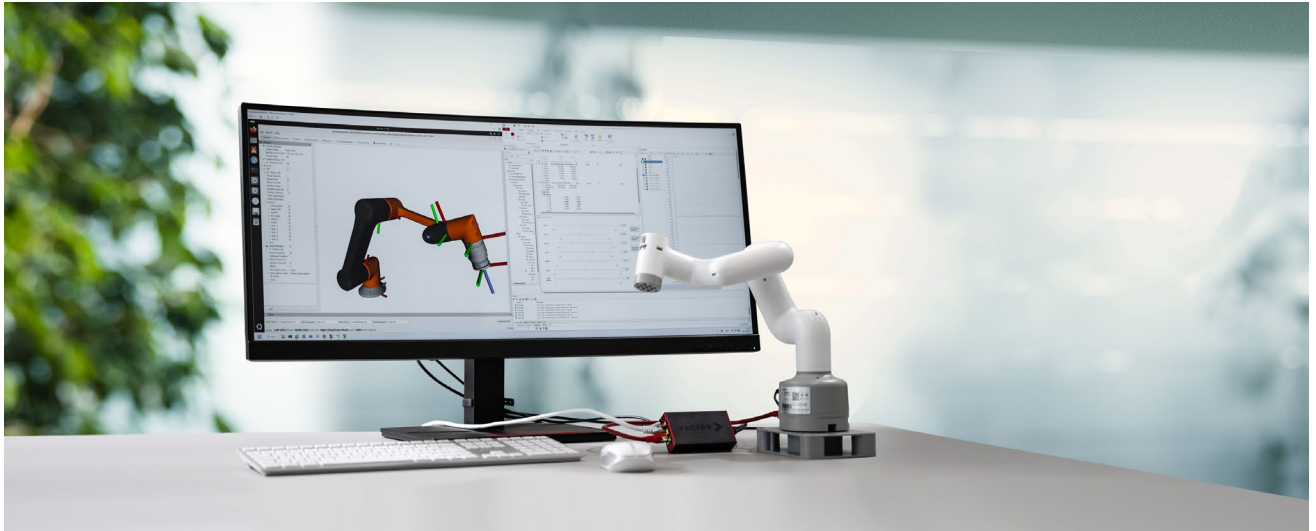More information at: www.vector.com/canoe-dds/

Figure 1: With CANoe.DDS, users can simulate, analyze, and test DDS applications faster and more efficiently in the familiar CANoe environment, thus avoiding the need to change tools.
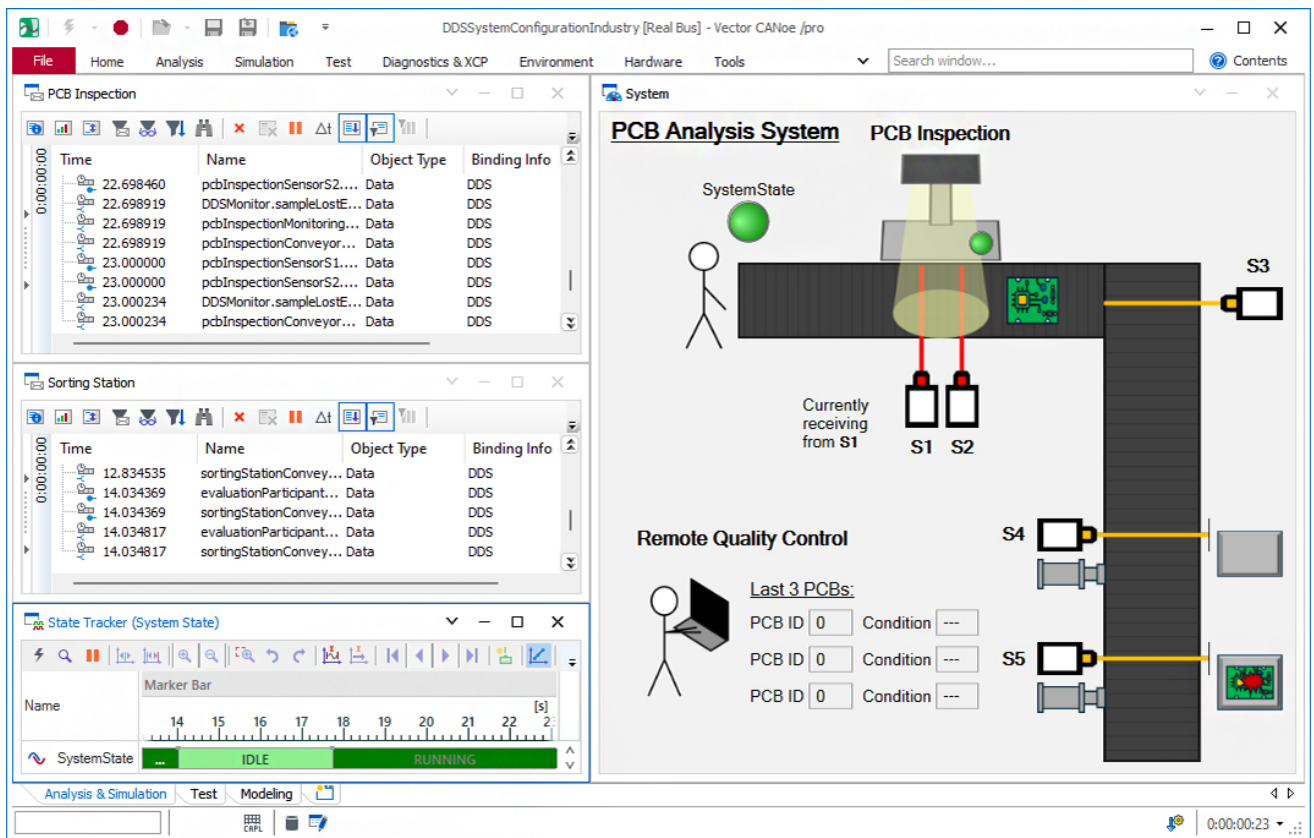Image rights: Vector Informatik GmbH

Figure 2: An example of a simulation and visualization of a DDS system in CANoe
Image rights: Vector Informatik GmbH

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About Vector:

Vector is the leading manufacturer of software tools and components for the development of software-based electronic systems and their networking.

Vector knows the requirements of software and electronics development. And has done so for 35 years. As "simplifiers", Vectorians simplify the technology development of customers worldwide and thus contribute to their success. With modern solutions in the form of software tools, embedded software and cloud technologies. This is achieved above all through a passion for technology and the ambition to always deliver top performance.

Vector worldwide currently employs more than 4,500 people with sales of EUR 1.01 billion in 2024. Vector is headquartered in Germany (Stuttgart) and has subsidiaries in Brazil, China, France, Great Britain, India, Italy, Japan, Austria, Romania, Sweden, South Korea, Spain and the USA.