

Press release

embedded world 2022: Real-Time Innovations (RTI) in Hall 4, 443 (Safety & Security Area)



Software Framework for Autonomous Systems, including Industrial Automation and Autonomous Driving

SUNNYVALE (USA)/London, April 26, 2022 – Real-Time Innovations (RTI), the largest software framework company for autonomous systems, will be exhibiting live on site at embedded world 2022 (June 21-23 in Nuremberg, Germany). The company presents its connectivity solution for autonomous systems, which is proven across several markets including Industrial Automation, Robotics, Medical and Automotive. At booth 4-443, RTI will showcase Connex Drive, the connectivity software for next generation vehicles and now newly-certified to ISO 26262 ASIL D, the most stringent Automotive Safety Integrity Level (ASIL) for road vehicles.

The connectivity software Connex is based on the Data Distribution Service (DDS™) standard and accelerates the development, deployment and management of highly autonomous systems. The framework manages complex data distribution for real-time, scalable connectivity across platforms and systems. It delivers optimized data processing, easier system integration, enhanced performance, simplified data recording, security and platform support. For example, Connex provides the ability to integrate OPC UA into DDS systems, and run DDS with the emerging IEEE TSN set of standards.

RTI Connex Drive: Functional Safety Certification

ASIL D certification provides OEMs with even more assurance of Connex Drive suitability for safety-critical applications, including autonomous driving and Advanced Driver Assistance Systems (ADAS). Unlike legacy Electrical/Electronic (E/E) architectural approaches, Connex Drive employs an agile data-centric integration paradigm. It allows architects to decompose systems software into fine-grained and loosely-coupled “microservices.”

Thus, developers can add and update services to introduce new capabilities without having to modify or re-certify any other software components.

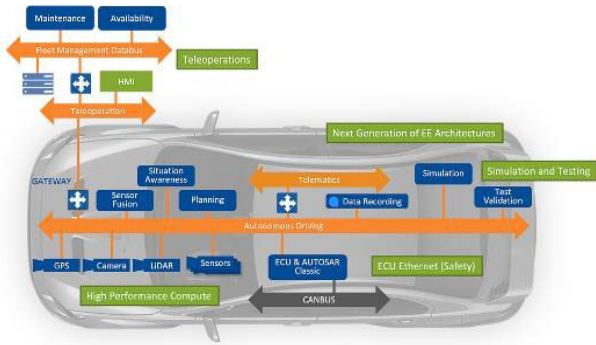
Connex Drive is compliant with the Data Distribution Service (DDS™) standard. It is integrated with the majority of automotive operating systems, technologies and platforms – including AUTOSAR and ROS 2 – providing architects and system engineers with maximum flexibility in developing their full stack solution. As of now, Connex Drive supports QNX® OS for Safety to ISO 26262 ASIL D, the industry-leading safe RTOS.

More information: <https://www.rti.com/rti-embedded-world-2022>

Pictures:



Connex addresses the development and deployment challenges of remotely-operated autonomous systems.
(Source: iStock 1139306496 / Scharfsinn86, enhanced licence)



Connex Drive Architecture. (Source: RTI)

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About RTI (www.rti.com):

Real-Time Innovations (RTI) is the largest software framework company for autonomous systems. RTI Connex is the world's leading architecture for developing intelligent distributed systems. Uniquely, Connex shares data directly, connecting AI algorithms to real-time networks of devices to build autonomous systems.

RTI is the best in the world at ensuring our customers' success in deploying production systems. With over 1,700 designs, RTI software runs over 250 autonomous vehicle programs, controls the largest power plants in North America, coordinates combat management on U.S. Navy ships, drives a new generation of medical robotics, enables flying cars, and provides 24/7 intelligence for hospital and emergency medicine. RTI runs a smarter world.

RTI is the leading vendor of products compliant with the Object Management Group® (OMG®) Data Distribution Service (DDS™) standard. RTI is privately held and headquartered in Sunnyvale, California with regional offices in Colorado, Spain and Singapore.

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