

RTI and Ansys Partner to Drive Innovation in the Design, Simulation and Deployment of Mission-Critical Distributed Systems

Technical integration of RTI Connex and Ansys software provides an advanced simulation environment for real-time systems

SUNNYVALE (USA)/London – January 10, 2023 – [Real-Time Innovations \(RTI\)](#), the largest software framework company for autonomous systems, today announced its partnership with [Ansys](#), a leader in simulation software. This collaboration accelerates the development, testing and deployment of high-performance and high-reliability distributed systems by allowing them to be simulated without their underlying hardware, which may have limited availability or be cost prohibitive.

RTI and Ansys customers are designing the most complex products, from autonomous vehicles to advanced medical robots to sophisticated defense systems and more. The integration of RTI Connex® with Ansys SCADE and SCADE Display, enables engineers to design and test their systems against real-world scenarios in secure, highly-scalable digital environments, before moving to production stages.

The partnership between RTI and Ansys builds on past collaborative work in avionics and automotive, including the first phase of the [Indy Autonomous Challenge](#), in which university teams created and raced fully autonomous vehicles in a simulated environment. For this challenge, [RTI Connex®](#) was tightly integrated with the Ansys simulation platform and Ansys SCADE model-based development environment, allowing every team to quickly design, test, rebuild and race their virtual cars on the digital track.

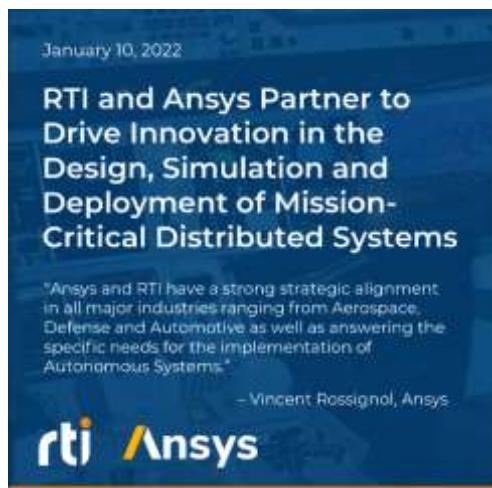
In avionics, RTI and Ansys have teamed to optimize simulation and design of deterministic AI systems, sending streams of high-speed, reliable intelligence to control systems. RTI Connex TSS works seamlessly with the Ansys SCADE Display ARINC 661 Cockpit Display System (CDS) in a Future

Airborne Capability Environment (FACE™) conformant environment that uses the Modular Open Systems Approach (MOSA) for rapid, lower-cost development. In automotive, the combination of RTI Connext Drive and Ansys SCADE Automotive provides an integrated platform across DDS, ROS 2, AUTOSAR Classic and AUTOSAR Adaptive, enabling software teams to work with the standard(s) that best meets their needs at different points in the innovation cycle.

"Ansys & RTI have a strong strategic alignment in all major industries ranging from Aerospace, Defense and Automotive as well as answering the specific needs for the implementation of Autonomous Systems," says Vincent Rossignol, Senior Manager, Product Management at Ansys. "RTI provides a certified DDS-based embedded platform which enables users to easily run Ansys SCADE for developing safe, reliable, interoperable and secure embedded systems, which provides our customers with the most efficient environment for their development processes."

"Our customers are building some of the world's most critical and complex systems. Using a proven, realistic simulation environment is a critical first step in creating products that perform as designed," says David Barnett, VP of Products & Markets at RTI. "Through our work with Ansys, engineers have access to an integrated technology approach to functional application design using real-world, real-time data. This technical alliance is an important milestone to build on our work together in automotive, avionics and other challenging applications."

Picture (source: RTI):



Picture (Source: Pixabay; G. Altmann)



#

About RTI (www.rti.com):

Real-Time Innovations (RTI) is the largest software framework company for autonomous systems. RTI Connex[®]t 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 1,800 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.

Media Contacts:

Beate Lorenzoni, Agentur Lorenzoni GmbH for RTI, T: +49 8122 55917-0;
rti@lorenzoni.de

Tiffany Yang, Public Relations, RT, tyang@rti.com