Real-Time Innovations Announces Partnership with VT MAK for the Training and Simulation Market

Partnership will Focus on Demonstrating Interoperability Between HLA Federations, and DDS-based Systems and Components

SUNNYVALE, Calif. – April 3, 2018 – Real-Time Innovations (RTI), the Industrial Internet of Things (IoT) connectivity company, today announced a partnership with VT MAK, the leading developer of modeling and simulation software for live, virtual and constructive simulation. The companies will work together to accelerate adoption of advanced distributed training environments by providing interoperability between the disparate standards currently used in the underlying simulators and operational systems. These standards include the Data Distribution Service (DDS), which is widely used in operational systems, and High Level Architecture (HLA) and Distributed Interactive Simulation (DIS), which are both used in virtual systems.

Connecting live and virtual systems for on-demand training has required extensive knowledge of how each system communicates. In order to integrate these systems, developers must have a comprehensive understanding of their object models, interfaces and protocols. In an example training scenario, a simulation system might bridge together live information from a naval combat system using DDS, and sense and destroy simulated targets using HLA. The system must implement a Live/Virtual connection while allowing all data to be analyzed so that scoring and critical feedback can be shared with the trainees.

To accelerate integration of virtual and operational components, the companies have integrated the VT MAK VR-Exchange protocol translation and bridging software with Real-Time Innovations Connext DDS, the leading DDS-compliant connectivity framework. This combination allows training system developers to rapidly integrate components that natively use DDS, HLA, DIS and other standards. Since training exercises can incorporate teams distributed across the globe, and even applications running in the cloud, the integration also allows developers to take advantage of the ability of Connext DDS to deliver robust security and real-time communication over a wide area network.

"Modern simulators and training systems must share data with operational systems which presents new security and performance challenges," said David Barnett, vice president of products and markets at Real-Time Innovations. "At Real-Time Innovations we have a history of successfully meeting the stringent interoperability and real-time requirements of the defense industry across hundreds of deployed systems. We believe a partnership with VT MAK is an excellent fit as we expand our support for the Training and Simulation industry."

"VT MAK has been helping customers with simulation interoperability for more than 25 years," said Dan Brockway, vice president of marketing at VT MAK. "Regardless of which simulation interoperability protocols customers choose, MAK is here to help them connect their simulators with VR-Link and interconnect their networks with VR-Exchange. We look forward to partnering with Real-Time Innovations on our shared vision to increase the support and readiness of our defense forces."

Real-Time Innovations is helping to bring security, performance and scalability to the simulation community. Connext DDS seamlessly stitches together legacy simulations while adding humans and hardware in the loop to create new live, virtual and constructive environments.

On April 10 at 7:30 a.m. ET, Real-Time Innovations is partnering with the National Center for Simulation (NCS) and VT MAK for a seminar, "DDS for Simulation: How the Connectivity Framework is Meeting Interoperability Challenges." At the event, Real-Time Innovations and VT MAK will be demonstrating interoperability between HLA and DDS. The companies will show a live demonstration of Real-Time Innovations' Connext DDS taking an HLA-RTI FOM from VT MAK and displaying it on a FACE conformant Moving Map from Harris Corp, displaying communication between the HLA-based simulation data and the Moving Map.

For more information about this complimentary event and to register, please visit: http://bit.ly/2G3mF8E

Read more about Real-Time Innovations' work in the Training and Simulation market here.

About Real-Time Innovations

Real-Time Innovations (RTI) is the Industrial Internet of Things (IIoT) connectivity company. The RTI Connext® databus is a software framework that shares information in real time, making applications work together as one, integrated system. It connects across field, fog and cloud. Its reliability, security, performance and scalability are proven in the most demanding industrial systems. Deployed systems include medical devices and imaging; wind, hydro and solar power; autonomous planes, trains and cars; traffic control; Oil and Gas; robotics, ships and defense.

RTI lives at the intersection of functional artificial intelligence and pervasive networking^{SM}.

RTI is the largest vendor of products based on the Object Management Group (OMG) Data Distribution Service™ (DDS) standard. RTI is privately held and headquartered in Sunnyvale, Calif.

RTI is hiring aggressively; see www.rti.com/careers.

About VT MAK

VT MAK develops software for live, virtual, and constructive simulation. Built upon a strong foundation of COTS products, MAK delivers simulation, gaming, and networking technology in a flexible platform to meet the requirements of training system integrators, experimentation labs, and end users. Our primary users are in the aerospace and defense industries, yet our products and services can help customers anywhere modeling and simulation is needed to train, plan, analyze, experiment, prototype, and demonstrate. MAK is dedicated to serving our customers by building capable products, offering superior technical support, and innovating new ways to build, populate and view interoperable 3D simulated worlds. MAK continues to take advantage of new technologies that further the state of simulation. Our products help users link, simulate and visualize their world. VT MAK is a company of VT Systems. Please visit www.mak.com for more information.

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