

Press release

## **Real-Time Innovations Connext DDS Selected as Part of Winning Proposals for the U.S. Army Synthetic Training Environment (STE) Program**

Tenosar Corporation, SimBlocks.io and Real-Time Innovations Will Demonstrate an STE Solution with an Open-Architecture Software Connectivity Framework

**SUNNYVALE (USA)/London, March 21, 2018 – Real-Time Innovations (RTI), the Industrial Internet of Things (IIoT) connectivity company, announced that its Connext DDS software was selected as a part of several winning proposals submitted for the U.S. Army Synthetic Training Environment (STE) Program. These proposed solutions are for the Global Terrain/One World Terrain (OWT) project designed to assist the Department of Defense (DoD) with creating the most realistic, flexible and accurate representation of rural and urban environments.**

The objective is to enable our defense forces to train in more realistic virtual environments, in drastically-reduced timeframes, while also decreasing government costs. Tenosar Corporation and SimBlocks.io will demo their Globally Oriented Architecture Topology (GOAT) solution in partnership with Real-Time Innovations in March. The GOAT solution is an STE system architecture design leveraging leading COTS tools and innovation-enabling technology.

GOAT is the first tool that will improve upon the current training landscape by integrating virtual terrains and mapping, while enabling interoperability between the platforms and simulators. Up until now, traditional simulation tools have relied on legacy, proprietary applications that have been unable to take advantage of the acceleration in technology. The GOAT solution will enable the DoD to move away from current system challenges, such as long terrain update times, limited numbers of entities and users, poor interoperability and high training

overhead costs. It will replace disparate, legacy training simulators with a single extensible simulation baseline following Modular Open System Architecture (MOSA) best practices. The STE architecture will provide training for aircrews, vehicle trainers, dismounted soldiers, aviation collective training, combined arms maneuver training and close-combat tactical training using the latest technology for distributed physics, augmented reality (AR), mixed reality (MR), artificial intelligence (AI) and commercial game engines.

Connex DDS will serve as the backbone of the MOSA solution. Leveraging Real-Time Innovation's connectivity software and COTS tools will improve overall system affordability by reducing integration times, lowering maintenance costs, promoting software and data reusability and increasing business competition. Connex DDS was also included in several other winning proposals with the largest aerospace and defense companies.

Connex DDS meets the advanced requirements of the STE program by supporting software portability, time-critical data distribution across diverse network types and interoperability across disparate platforms. It also offers the capability to seamlessly connect LVC-IA legacy trainers, live TADDS, Mission Critical Information Systems and authoritative data sources within the larger Army Enterprise. This connectivity approach enhances legacy communication models with plug-and-play interoperability, real-time Quality of Service (QoS), fine-grained security and optimized data transfer through intelligent filtering.

Tenosar and SimBlocks.io, along with Real-Time Innovations, are proposing a partial solution for collective training that will cover and focus on technology for global terrain generation, training simulation software, distributed networking and high entity count simulation. The solution will be demonstrated in mid-March and based on these demos, the U.S. Army will narrow down the solutions to a smaller group that will move forward into the next phase.

## Quotes

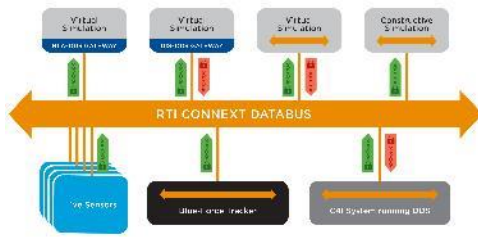
“Real-Time Innovations is the ideal partner for our open architecture middleware because its connectivity software has previously been deployed and trusted in leading defense programs including UAS, FACE, FICAPS, LCS and more,” said Teresa Speck, executive vice president at Tenosar Corporation. “RTI Connex DDS will seamlessly integrate with our existing software solutions, and offer one common connectivity architecture for testing, training and analysis in the STE program. Our goal is to provide the most fiscally and technically responsible solution for the U.S. Army, and we believe that our partnership with SimBlocks.io and Real-Time Innovations will allow us to do so while remaining at the forefront of technical innovation.”

“At SimBlocks.io we specialize in connecting commercial gaming technology with military simulation training systems to deliver advanced training with high-quality, low-cost development tools,” said Jordan Dauble, owner at SimBlocks LLC. “Real-Time Innovations provides the connectivity architecture for the world’s most demanding real-time systems which we knew would be a perfect fit for our STE solution with Tenosar. We look forward to continuing to work together to advance the STE solution and increase the readiness of our defense forces.”

“Effective training requires true, high-fidelity simulation across highly distributed systems with response times that are as close to real-world scenarios as possible,” said David Barnett, vice president of products and markets at Real-Time Innovations. “In order to provide this type of environment, Training and Simulation applications require interoperability between distributed simulation components, proven security and a standards-based open architecture. We are honored to bring forward our expertise and work with the Tenosar and SimBlocks.io teams to provide the most effective STE solution for the U.S. Army.”

For more information on Real-Time Innovation’s work in Training and Simulation, please visit: <http://bit.ly/2oUuqa4>

**Picture (source: RTI):**



Example architecture for a virtual simulation environment.

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**About Real-Time Innovations, Inc. (RTI) (www.rti.com):**

Real-Time Innovations (RTI) is the Industrial Internet of Things (IIoT) connectivity company. The RTI Connexion® 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<sup>SM</sup>.

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, California.

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