DDS Foundation Forum – Wednesday, March 22, 2023

Note: All times are listed in Eastern Time (EDT)

4 – 4:05pm | Opening

Laura Clark, VP Communications, DDS Foundation

4:05 – 4:15pm | DDS Foundation Overview

Lynne Canavan, VP Marketing, DDS Foundation

4:15 – 4:25pm | Intro to DDS

Nina Tucker, VP of Engineering, Twin Oaks Computing

4:25 – 4:35pm | Family of DDS Standards

Adam Mitz, Principal Software Engineering & Partner, Object Computing & Director of Interoperability, DDS Foundation

Bio: Adam is a Principal Software Engineer and Partner at Object Computing. With over 15 years of experience on DDS, Adam is a lead maintainer of the OpenDDS open-source DDS implementation and consults with Object Computing's clients on building distributed applications that use OpenDDS. He also delivers DDS training classes and participates in the OMG SDO. Adam is the DDS Foundation's Director of Interoperability.

4:35 – 4:55pm | Commercial Resilient Underwater Autonomy Solutions Utilizing DDS Standard

Christine Judd, Vice President of Unmanned Systems Division (Metron)
Matthew Judd, Autonomy Software Architect & Developer of Unmanned Systems Division (Metron)

Abstract: Metron delivers multi-mission performance across a wide range of mission parameters and commercial applications. Through multi-agent system integration and control, we can reduce real-time decision making processes to save time, resources and achieve mission objective results. Deep water applications require a robust AUV solution designed with modularity and fault tolerance, guided by a dynamic world model. When you can efficiently obtain modularity through the loose coupling of typical AUV tasks such as navigation, sensor processing, and interaction with platform specific hardware, then you can achieve the maximum impact for your operations. Metron has spent the past 12 years as a leader in UUV development, and DDS has enabled rapid development and deployment of our technology for underwater applications.

Bio: Christine is the Vice President of Metron Inc.'s Unmanned Systems Division providing resilient mission autonomy solutions for the defense, civilian, and commercial markets. With over 25 years of experience, Christine has advanced projects across the DoD value-chain securing contracts with DAPRA, NAVSEA, and ONR. Her expertise spans analytics, autonomous systems, and applied simulation focused on autonomous solutions to solve real-world mission challenges. Past leadership roles include, Metron's program manager for the multi-million dollar ONR LDUUV INP project; management of the Metron mine countermeasures operations analysis team, and oversight of engineering, software, and field operation deployments of AUV systems. Currently, Christine leads Metron's autonomy software and vehicle development programs focused on platform development and intelligent, adaptive AUV

mission planning, execution, payload management, and self-adaptive health management.

Bio: Matthew is the Autonomy software architect and developer of Metron Inc.'s Unmanned Systems Division providing resilient mission autonomy solutions for the defense, civilian, and commercial markets. With over 25 years of experience, Matthew has supported projects across the DOD value-chain developing solutions for DARPA, NAVSEA, and ONR. Over the last 10 years, Matthew has designed and implemented Metron's Autonomy, Navigation, Command and Control (ANCC) autonomy suite, the vehicle autonomy used for both commercial and DoD applications. He helped design and implement Metron's full mission simulation system used to test ANCC and has taken part in several in water demonstrations of the technology. The vehicle autonomy has been used on multiple vehicles during several demonstrations, including long duration events as well as multiple vehicle payload demonstrations.

4:55 – 5:40pm	A Conversation with DDS Experts

Panelists:

Erik Hendriks, DDS SIG Co-Chair, OMG & Senior Software Architect, ZettaScale

Andy Krassowski, Field Application Engineer, Real-Time Innovations

Adam Mitz, Principal Software Engineering & Partner, Object Computing & Director of Interoperability, DDS Foundation

Nina Tucker, VP of Engineering, Twin Oaks Computing

Moderator:

Char Wales, Systems Engineer – Process Specialist (Jackrabbit Consulting)

Bio: Char has been active in OMG for over 20 years as the co-chair of OMG's Middleware and Related Services Platform Task Force (MaRS PTF) and responsible for the development and advancement of standards such as CORBA, IDL, and other related technologies including DDS for Real-Time and its ecosystem of associated standards, Distributed Independent Data Objects (DIDO), (policy-driven) Information Exchange Framework (IEF), blockchain, distributed ledgers, etc. She retired from the MITRE Corporation as Lead Computer Scientist after over 35 years supporting projects for the US DoD and other US government agencies. She holds a B.A. and M.S. in Physics.

5:40 – 5:55pm	Q & A

5:55 – 6pm	Closing

6pm	Networking Reception