Secure and Reliable Connectivity

From edge to cloud for real-time data exchange

Bachmann and Real-Time Innovations (RTI) join forces to deliver DDS-based industrial automation solution for autonomous shipping: Supported native port eliminates integration challenges between DDS and non-DDS users, increases application security and reduces time to market.

Bachmann electronic and Real-Time Innovations (RTI), the largest software framework company for autonomous systems, announce their partnership to enable and support Platform Industrie 4.0 through high-performance, cross vendor interoperability without a gateway. Together, RTI and Bachmann provide secure and reliable connectivity from edge to cloud for real-time data exchange regardless of vendor, platform or domain, to benefit industrial use cases such as autonomous shipping.

Bachmann, a global automation solutions provider for the energy, industrial and maritime sectors, will provide users of the Bachmann M1 Controller System with a customized and failsafe Connext software framework to enable a flexible platform for automation projects.

An example of a forward-looking maritime automation products developer, who foresees a positive outcome of this co-operation for the maritime industry is Blue Ctrl. "Blue Ctrl develops and delivers future-oriented, reliable marine automation products based on the X-CONNECT® platform. X-CONNECT® has been using RTI Connext® DDS as its communication middleware for many years, and supports controllers from Bachmann as external information gateways," said Ronny Hamre, Senior Development Engineer at Blue Ctrl. "Systems based on X-CONNECT have been successfully delivered on more than 50 ships, ranging from small aquaculture support vessels to large cable laying vessels and cruise ships. Blue Ctrl believes that this partnership between RTI and Bachmann will not only make it easier to use Bachmann hardware in X-CONNECT products, but also make it easier for the maritime industry to gain access to data through future-oriented smart protocols, such as DDS."

▼ Ulstein VesselGraphic

▼ M1-DDS-IO Station

RTI Connext is based on the Data Distribution Service™ (DDS) standard and offers capabilities specifically designed for the most demanding distributed computing environments. RTI also offers industry-leading services and support to help architect a future-proof system that offers massive scalability and minimizes project risk.

This partnership delivers a successful solution to several customers in the maritime industry, where a safe and secure connectivity framework is particularly crucial for diagnostics and data center applications.

"Together, RTI and Bachmann are helping marine operators enable safe, reliable and massively scalable remote operations across platforms – making it uniquely suitable for remote operation of autonomous systems," said Ronald Epskamp, Head of Maritime at Bachmann electronic. "This announcement builds on the work that we initiated in 2016. We are pleased that our maritime-approved controller system with its full range of benefits, has now been integrated into RTI's standard Connext DDS software."

Bachmann will be showcasing the Open Bridge Technology with DDS at Europort 2021, November 2-5 in Rotterdam.

Learn more and download the
latest version of RTI Connext DDS

Learn more about
Bachmann electronic GmbH