



KVH and Kongsberg Digital Successfully Install First Integrated Maritime IoT System on Active Working Vessel

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The vessel, owned and operated by Kongsberg, is using KVH Watch™ IoT Connectivity as a Service and the Kognifai Vessel Insight platform as part of an innovative maritime IoT bundled solution

MIDDLETOWN, R.I., Jan. 02, 2020 (GLOBE NEWSWIRE) -- KVH Industries, Inc. and Kongsberg Digital announce the successful installation of their first joint maritime IoT system on an active working vessel. The team installed a KVH Watch VSAT antenna for IoT connectivity and the Kognifai Vessel Insight platform on Simrad Echo, a Norwegian research vessel owned and operated by Kongsberg, which will continue normal operations during the pilot maritime IoT project. Together, KVH Watch and Kognifai Vessel Insight provide an integrated infrastructure for IoT connectivity and vessel-to-shore data.

Maritime IoT is a focus of great interest among ship owners, ship managers, and maritime equipment manufacturers who are seeking ways to improve vessel operations through real-time monitoring and data analysis. This bundled connectivity solution by two leaders in the commercial maritime market, KVH and Kongsberg Digital, is one of the first cases of an active working vessel using an integrated maritime IoT solution.

Simrad Echo will rely on Kognifai Vessel Insight to monitor main and auxiliary systems on the vessel and help ensure 100% availability. For example, the Kongsberg Mapping Cloud application will move high-resolution echo sounding data from vessel to shore in real time so that shore-based experts can provide analysis to optimize vessel operations.

"While Vessel Insight works as an infrastructure for accessing contextualized quality data from a vessel or fleet, KVH is providing an alternative for IoT connectivity that enables the transfer of data from ship to cloud," says Vignleik Takle, Kongsberg Digital's senior vice president of maritime digital solutions. "We are very happy to be able to offer this as a connectivity option to our users."

The data flow from Simrad Echo will be facilitated by KVH Watch IoT Connectivity as a Service, a VSAT solution that leverages KVH's end-to-end maritime connectivity services and high throughput satellite (HTS) network. KVH Watch features two modes: Watch Flow, for 24/7, machine-to-machine data delivery compatible with major IoT ecosystems such as Kognifai; and Watch Intervention, for on-demand high-speed sessions for face-to-face support, remote equipment access, and very large data transfers. The two companies plan to utilize Simrad Echo as a platform to develop tighter integrations for remote support and smart bandwidth utilization that will benefit both new and existing customers.

"Vessels are complex systems of systems that must work together for the vessel to perform reliably and efficiently," says Robert Hopkins, Jr., KVH's senior director of maritime services. "During the Simrad Echo pilot, Watch Flow will deliver a complete view of those systems to shore on a Kognifai Vessel Insight dashboard. One system, Kongsberg Mapping Cloud for very high-resolution bathymetry, is particularly data intensive, making it a great use case for our high-throughput Watch antenna."

KVH and Kongsberg Digital will use the Simrad Echo pilot program to continue to enhance their maritime IoT solution, which is designed to enable remote equipment monitoring and performance optimization for vessels ranging from small research vessels to tankers, bulk carriers, and container ships.

Note to Editors: For more information about KVH Watch IoT Connectivity as a Service, please visit kvh.com/watch. For more information about Kongsberg Digital's Kognifai platform, please visit kognifai.com/platform. High-resolution images of KVH products are available at the [KVH Press Room Image Library](https://kvh.com/Press-Room/Image-Library), kvh.com/Press-Room/Image-Library.

About Kongsberg Digital

Kongsberg Digital is a provider of next generation software and digital solutions to customers within maritime, oil & gas and renewables & utilities. Today, KONGSBERG works for organizations across a number of sectors including: deep-sea, digital, defense, merchant marine, oil and gas, fisheries, aerospace and space industries. While our business areas are diverse, our focus is single-minded, as we operate as an 11,000 strong team, dedicated to delivering technical excellence, at a world-class level.

About KVH Industries, Inc.

KVH Industries, Inc. (Nasdaq: KVHI), is a global leader in mobile connectivity and inertial navigation systems, innovating to enable a mobile world. A market leader in maritime VSAT, KVH designs, manufactures, and provides connectivity and content services globally. KVH is also a premier manufacturer of high-performance sensors and integrated inertial systems for defense and commercial applications. Founded in 1982, the company is based in Middletown, RI, with research, development, and manufacturing operations in Middletown, RI, and Tinley Park, IL, and more than a dozen offices around the globe.

KVH Industries, Inc. has used, registered, or applied to register its trademarks in the U.S.A. and other countries around the world, including but not limited to the following marks: KVH and KVH Watch. All other trademarks are the property of their respective companies.

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