

2019 JANUS Interoperability Fest

Participants

Applicon (Italy)



Applicon is a spin-off of the University of Calabria that was founded in 2011. It focuses on the design and development of hardware/software for microprocessor-based embedded systems, targeting all needs of communication, networking, localization, navigation and monitoring. Remote control of vehicles, sensors, plants and divers in underwater environments is also addressed. Applicon operates in the sector of underwater technologies, mainly for digital underwater acoustic transmission and active safety systems for divers.



ATLAS ELEKTRONIK (Germany)

ATLAS ELEKTRONIK stands for maritime security. For decades now, ATLAS – as a leading systems supplier for naval electronics – has been helping navies around the globe make the sea a safer place. ATLAS has a broad offering of sonars and sensors, command and control systems for submarines and surface combatants, mine countermeasures systems, unmanned underwater vehicles, radio and communications equipment, naval weapons as well as coastal surveillance systems. ATLAS is able to equip submarines, ships and systems with its own and external sensors, effectors and subsystems and to integrate them in creating network-centric systems. Since April 2017 the electronics specialist is fully-owned by thyssenkrupp and is an operational unit of thyssenkrupp Marine Systems.

EvoLogics (Germany)



EvoLogics GmbH is a high-tech enterprise developing innovative technologies for maritime and offshore industries through interdisciplinary cooperation between engineering and life sciences, designing and manufacturing wireless underwater communication systems based on bionic concepts, combining state-of-the-art engineering with the best ideas found in nature. The resulting EvoLogics S2C spread-spectrum communication technology allows to deliver data in most challenging conditions for a wide range of subsea applications. Over the years, EvoLogics S2C spawned a whole ecosystem of products, including

several series of underwater acoustic modems, underwater positioning systems (USBL, LBL, SBL), a framework for developers, as well as our novel robotic solutions. Research and innovation are the cornerstones of EvoLogics, and underwater communication, networking and positioning that enable intelligent cooperation between various vehicles and sensors has been the main vector of EvoLogics development strategy.

[EvoLogics on Facebook](#) [EvoLogics on LinkedIn](#)



Popoto**Modem**

Popoto Modem (USA)

Located on Cape Cod, Massachusetts, PopotoModem focuses on reliable underwater OEM communications solutions. Our team brings together experienced hardware and software, and ocean engineers. Our solutions are aimed at enabling robust acoustic communications in markets that were previously cost-prohibitive.



Teledyne Marine (USA)

Teledyne Marine is an organization comprised of 23 leading surface and subsea technology brands assembled by Teledyne Technologies Inc. These technologies span oceanographic instruments; subsea and surface vehicles and navigation; imaging sonars, cameras and lights; and interconnect solutions. Collectively, Teledyne Marine is able to offer the widest breadth of technology in the industry. Teledyne Marine's acoustic modems are compliant with the JANUS interoperability standards, and will be demonstrated at the Second JANUS Interoperability Fest.

www.teledynemarine.com

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Wärtsilä ELAC (Germany)

Wärtsilä ELAC Nautik is one of the leading manufacturers and solution providers in the field of underwater acoustics and hydrography for both naval and civilian customers. The history of ELAC began in 1926, when a group of scientists studying sound propagation in water founded the company ELECTROACUSTIC (ELAC) GmbH in Kiel. Since the foundation of the German Federal Navy in 1956,

ELAC has gradually equipped all their larger surface ships and submarines with sonar systems, underwater communication systems and echosounders. With these 90 years of experience, ELAC's activities have focused on hydro-acoustic detection and signal processing as well as underwater communication. In these areas, a wide range of products have been developed and manufactured, especially sonar systems and components for navy vessels and echo sounders for navigation and survey. Hydro-acoustic systems for military, scientific and commercial use are designed in close cooperation with hydrographic institutes and authorities of many countries. This knowledge will be frequently enlarged and improved by participating in national studies and international underwater research projects like RACUN or JANUS.



WSense (Italy)

WSENSE is a high-tech Italian company with a strong and experienced R&D team specialized in monitoring and communication systems, with pioneering patented solutions on the Internet of Underwater Things (IoUT). WSENSE cableless patented technologies are at the forefront of underwater wireless networking, supporting multi-modal underwater wireless communications, mesh networking and secure communications among multi-vendor underwater and surface sensing and robotic platforms. WSENSE has been part of the first NATO standardization efforts in underwater communications, being part of NIAG 190 and having developed the first Italian JANUS modem. What WSENSE offers is complete IoUT solutions, interconnecting and adding value and intelligence to assets our customers have already invested in. Full support to multi-vendor interoperability is at the core of WSENSE solutions. The company comprises 20+ people with strong and multidisciplinary background with a strong track record of success. WSENSE is present in Italy, Norway and UK.

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