

# In:Range

Life  
saving  
technology

**Contact information**

Arild Sæle - Chief Commercial Officer

Phone: +47 98 21 87 74

Email: [as@scanreach.com](mailto:as@scanreach.com)

Scandinavian Reach Technologies

Skjenet 11, 5354 Straume

Norway

## Background

Scandinavian Reach Technology (SRT) has developed a unique sensor mesh technology enabling wireless data transfer and connectivity in confined steel environments.

This breakthrough technology, developed over the last four years in close cooperation with the Royal Norwegian Navy, removes a major barrier for digitization onboard vessels and rigs, enabling real time transfer of data and new levels of safety.

Based on wireless mesh technology, SRT will launch In:Range in 2018. In:Range provides instant personnel on board (POB) control, allowing immediate and high precision rescue team involvement.

## Functional description

During emergency situations onboard ships and rigs, gaining POB control is a top priority. Existing solutions and procedures are mainly analogue, based on manual headcounts and paper sheets. This is a time consuming and complicated process often leading to dangerous situations and potential loss of lives. Delays in identifying and locating missing personnel leads to delays in mobilising assistance and providing potentially life-saving treatment.

In:Range utilizes smart 'low power' wireless IoT sensor technology providing on-board emergency response teams with an immediate overview and position of all personnel in real time. This information can be shared with different locations - such as fleet management offices, shipowner offices, insurance companies, coastal services and rescue departments - through cloud-based services, enabling enhanced decision support and assistance in emergencies.

## Technical description

In:Range is a robust, scalable and affordable solution well-suited for both existing assets, as well as for new vessels and rigs under construction. In:Range consists of the following main elements:

### 01 Personal tags

### 02 Vessel interior and exterior sensors

### 03 Central unit for processing data

### 04 Screen for visual presentation or add-in to existing screens on bridge

The vessel interior and exterior sensors are positioned based on the General Arrangement to ensure complete coverage. As personnel move around, their tag is identified by the nearest interior sensor, and wirelessly transmitted to the central unit. A connected PC with In:Range software collects the crew location information from the central unit, and presents it on a visual interface.

In:Range is delivered as a "plug and play" solution, and can be easily installed by the crew during normal operation. The system is wireless, with no cabling required between sensors.

In addition to real-time location of personnel In:Range can be expanded to cover additional valuable services such as:

- Safety alarm on bracelet (tag)
- Virtual area barriers
- Area access control
- Area responsible support for work permits, etc.
- «Man-over-Board»-functionality

Our unique wireless connectivity technology can also be used as a platform for easy wireless sensor data transport and asset tracking. SRT will at the end of 2018 launch a stand-alone product called In:Connect dedicated for this purpose. Please see our web page for further information.

## About Scanreach

SRT is located on Sotra on the west coast of Norway, close to some of the harshest maritime and offshore environments in the world. Our technology and systems have been thoroughly tested in these demanding environments in close cooperation with the industry.

Our mission is to increase personnel safety and ultimately save lives. For this reason SRT has gathered a dedicated senior team consisting of highly qualified personnel with relevant experience within the following key areas:

- Digitization & Software development
- Industrial design & UX
- IoT & Wireless sensor technology
- Naval architecture & marine technology
- Maritime and offshore engineering management
- Maritime and offshore emergency response team management
- HSE, Risk and Quality management
- Internationalization & Business development

