When Safety Matters
Consilium has a worldwide network of subsidiaries and agents. The reason is simple. We want to give you the best support wherever you are!

Our support includes everything from service and maintenance to spare parts and full retrofit installations. Marine safety is our key business and we work in close cooperation with our customers and users.

Through our own subsidiaries and agents Consilium is present in more than 50 countries including all major ports around the world.

We offer spare parts that are backward compatible with our initial equipment, well-trained service engineers as well as turnkey solutions for retrofit projects. Our After Sales department is divided into four areas: spare parts, service, support and annual performance test (APT).

Spare parts
Efficient processing and delivery are essential for successful running of an ongoing operation. That’s why our experienced staff organizes advanced logistic services to meet our customers’ specific needs. Spare parts will be available when and where you need them to optimize your operation and objectives.

We also operate a policy of continual assessment to be able to match any change in a customers’ operation and respond quickly and effectively.

Service
We provide product education and service training for our service network, as well as to customers with special requirements.

Our local and international service network enables us to

– provide the right service technicians at very short notice
– offer full 24/7 support worldwide
– ensure that service is performed by highly trained engineers
Consilium is one of the world’s leading companies in developing and marketing products and systems for safety, environment and navigation. Our product program includes fire detection, gas detection, emission monitoring and navigation equipment.

We market our products and systems to international shipbuilders and shipowners as well as to oil, gas and other industries.

When you turn to Consilium, you benefit from unique expertise and a series of products and solutions without comparison in the market. For instance, we are the only company in the world that offers an integrated solution for fire and gas detection on ships and the first company to provide a speed log with an echo sounder function.

We always strive to be the customers’ first choice.

Through high product quality, an optimized cost structure and a high degree of delivery reliability, global service and support, we aim to offer the best customer value on the market.

“When you turn to Consilium you can expect us to be there for you around the clock, every day of the year”
Consilium has a long experience in developing and marketing equipment for the marine industry, beginning with the SAL Speed Log in 1912. Since then, we have broadened our product portfolio to include other critical navigation equipment. Our ambition is to provide reliability, service support and cost efficiency.

The product portfolio consists of in-house developed speed logs, navigational radars and radar systems, conning display, marine Voyage Data Recorders (VDR), Electronic Chart Display and Information Systems (ECDIS) and Vessel Traffic Systems (VTS) for coastal surveillance. Every product is designed to comply with the most stringent demands and for operation in the harshest conditions – from ice-breakers in the Arctic to submarines and coast guards.

In addition to our own products, we co-operate with a number of the industry’s other main manufacturers when offering complete Navigational Package solutions. This ensures that you always can benefit from top range quality in both design and product throughout your entire project.

Thanks to our broad product range, we can provide attractive and competitive solutions for all segments within the marine market. All our solutions meet the requirements for both new constructions and retrofit installations.

Vessel and environmental safety

Our highly advanced marine radar platform is also available as dedicated Oil spill, Ice detection and Anti Piracy systems.

Consilium’s VTS solutions are designed to monitor traffic in narrow or congested sea areas to give early warning of unauthorised entry around protected areas. We tailor every VTS to meet our customers’ individual requirements. The range stretches from simple stand-alone radar systems to comprehensive sophisticated integrated navigation-aid systems incorporated with remote radar site controllers, multi-server, multi-operator workstations, AIS and CCTV.

We deliver both complete systems and components to the world’s leading VTS solution providers. Consilium has a long tradition of advanced radar products and the use of radar for surveillance applications and we are constantly developing new solutions to meet future monitoring needs.

Consilium offers two Voyage Data Recorders, VDR and S-VDR. The VDR is designed to manage very fast and accurate new building installations. The S-VDR is a modular fully equipped Simplified Voyage Data Recorder, specialised for retrofit. Consilium VDR systems meet all the relevant requirements as demanded by IMO Standards and EU directives. Consilium has been involved in the development, manufacturing and installation of Voyage Data Recorders since 1996.

Consilium SAL Speed Logs have been market leading since 1912. Having installed almost 10,000 systems since the first SAL Log, based on the acoustic correlation principle introduced in 1974, we continue to lead. The acoustic correlation principle makes it possible, depending on model, to simultaneously measure Water Track Speed, Bottom Track Speed as well as Depth with just one sensor. In addition to high accuracy, the solution requires only one hull penetration facilitating design and reducing both installation and maintenance costs.

The Consilium Navigation Systems are known for their modular design, high reliability and flexible interface. Consilium Radars can be connected to a large variety of radar sensors, either aloft or down-mast, to form all combinations needed for operation in the X and S frequency band. The Consilium ECDIS is an extremely powerful navigation and information display including advanced interface to operate and display all AIS and ARPA targets with seamless simultaneous presentation of ARCS ENC charts.
**ECHO SOUNDER**
IMO resolution-compliant single/dual frequency navigation echo sounder housed in electrostatically shielded compact ABS plastic cabinet. Certified to comply with EU Marine Equipment Directive (MED). Fully automatic operation, tracking bottom with appropriate gain, TVG, power Interfaces with GPS sensor to store depth data with LAT/LON and date information.

**AUTOMATIC IDENTIFICATION SYSTEM**
A sophisticated, fully integrated receiver and transmitter solution, approved to deep sea and inland waterway standards and offers a highly intuitive user interface. AIS and radar can be fused to create effective and efficient coastal tracking, surveillance and safety systems. Certified to IEC61993-2 and inland waterway standards according to RIS (River Information Systems).

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**Emission Monitoring System**

- Log Processing Unit (LPU)
  - Calculation and distribution unit

- VDR Main Unit
  - Central unit VDR

**ECDIS**
Electronic Chart Display and Information System

- Selux ARPA Display
  - Maritime radar display with Automatic Radar Plotting Aid (ARPA) shows the radar image, the tracked object’s course and the AIS information.

- ECDIS
  - Display to VDR
  - Microphones to VDR
  - Speed Log
  - Speed and distance
  - Master Display

- Echo Sounder Display
  - Graphical depth presentation

- AIS
  - Automatic Identification Systems
The Icomera X6 combines Wi-Fi, cellular networks and satellite communications. It performs the seamless aggregation and handover among all available cellular operators and the port WiFi, giving the highest data connectivity throughput and satellite fallback handling. Quality of service provides for categorization of the traffic, remote operability allow for constant monitoring and control.

**SAFETY MANAGEMENT BY INTERACTIVE GRAPHICS**

The ultimate interactive application for supervision as well as control of fire detection and other safety related systems of largest scales. Salwico SMIG is an interactive graphical system designed using latest technology and tools for graphic interface design to most advantageous interaction with the system operator.
The Salwico Fire Detection range consists of conventional and analogue addressable systems. Both types are approved by all major classification societies worldwide. The Salwico systems also come in two types: sequential sampling and loop-configured analogue addressable systems. The Salwico systems are reputed as top of the line since having all the qualities and features an end user or installer may expect.

Consilium has one of the market’s widest selections of safety systems. Over the years, we have developed our systems based on the demands of our customers, new regulations and the company’s innovations to become the first choice for shipyards and shipowners around the world. Within the fields of fire and gas detection, our market share amounts to almost 50 per cent of the world market in terms of systems supplied.

**Fire Detection**
As one of the world leading suppliers of marine fire detection solutions. The systems are built on two different principles for fire detection, offering analogue addressable systems and digital conventional systems.

A fire detection system from Consilium, enables control of fire doors, smoke vents, sprinkler systems, CCTV, telephone and personal pager functions, ventilation, fan systems etc. Since our business strategy is to serve the customer during the entire life time of the vessel, we have always backwards compatibility in mind when developing a new system.

**Gas Detection**
Consilium is the world leading supplier of systems for detecting toxic and explosive gases on board ships. We offer two kinds of systems, combinable in various configurations, with specific properties to suit all possible applications. This combined concept is used especially on LNG vessels.

You can combine Consilium’s systems and integrate them in a total safety solution to meet very demanding safety requirements. We were the first supplier in the market to offer an integrated comprehensive solution for fire and gas detection on a ship.

**Environmental Monitoring**
Consilium offers an emission monitoring system for the measurement of nitrogen oxides (NO$_x$), sulphur dioxide (SO$_2$) and the greenhouse gas CO$_2$.

Our system is one of the first in the world to measure nitrogen oxides and verify the sulphur dioxide concentration in the exhaust after the smoke has been “scrubbed” by other systems.

In order for the customers to obtain the maximum use of our products onboard, we have further developed the software together.

The system is based on an advanced technical solution with proven measuring techniques and is marine approved by Bureau Veritas classification society.
You find us worldwide