

# AIS application development unleashed

## Product overview

The International Maritime Organization (IMO) has decided that the *universal ship borne automatic identification system* (AIS) will become mandatory for most civilian ships. AIS is a VHF radio based system that enables communication about manoeuvring, weather, rescue, identification, cargo and more from ship-to-ship and between ships and stations at shore.

AIS opens a world of opportunities in the maritime sector, where AIS-equipped vessels, coast guards, harbours, VTS systems, navies, ship owners, expedition and logistic companies, ERP systems and many others can exchange vital information in real time.

Any AIS-related software needs the ability to decode and encode demodulated AIS messages; either in their binary format or in the ASCII-format defined by the NMEA 0183 standard. Navicon has developed *Interfais*, which is a software library enabling applications to decode and encode all AIS messages as defined in the ITU 1371-1 standard. This saves developers the low-level work of parsing and generating AIS messages; it raises the abstraction level significantly and allows software developers to focus on the logic of their application rather than the AIS protocol.

*Interfais* is the foundation of any AIS application.

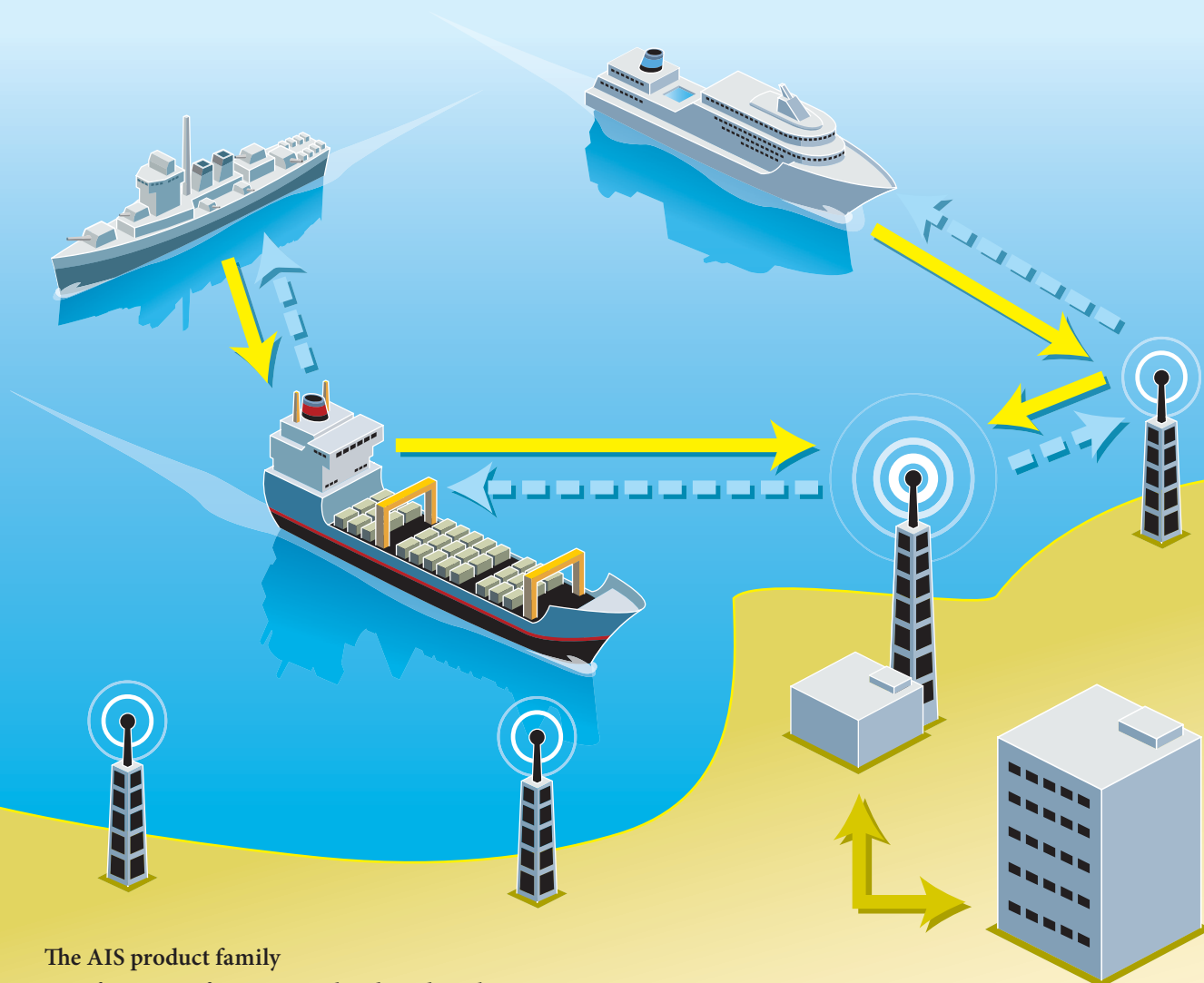
## In depth

*Interfais* is an object-oriented software library. It is available in both C++ and Java. The C++ version is written in ANSI C++ and the Java version in 100 % pure Java.

*Interfais* is fast: It decodes 500+ messages per second on a standard 1.4 GHz PC running Linux.

*Interfais* runs on Linux, Solaris, Windows XP/NT and other operating systems.

*Interfais* is highly compliant: It implements all AIS messages defined in ITU 1371-1 and implements VDM/VDO as defined in NMEA 0183 v3.01.



### The AIS product family

*Interfais* is one of many AIS related products by Navicon. We have a range of software products for record/replay, simulation, statistical analysis, situation awareness and more.

Some of the products are designed for existing and potential users of AIS technology, others are specifically minded for developers and service providers of AIS applications.

All of our AIS products are designed for seamless and efficient integration with existing software and they run on a variety of hardware and operating systems.

### About Navicon

Navicon is a skilled and experienced provider of coastal and maritime information systems. Among our success stories are the development of a complete C4I system in use 24x7 by the Royal Danish Navy and a navigation computer for naval vessels used fleet-wide by a European navy. Our solutions and products are highly cost-effective due to our experience, quality procedures and low overhead costs.

Please visit [www.navicon.dk](http://www.navicon.dk) or contact [info@navicon.dk](mailto:info@navicon.dk) for more information.