

**Decision-ready data
at your fingertips**

FLEET MANAGEMENT

Pole Star's Fleet Management service provides a robust, independent asset tracking and monitoring system which delivers accurate information to improve your fleet's operational performance and support remote risk management.

Access to fleet information is via a range of online tools, allowing authorised users to view and analyse data according to their business function and information needs. A series of unique Industry Zones, denoting known areas of risk and special regulatory requirements allows for a proactive approach to voyage management.

The results are tangible: complete visibility of your assets on one screen, more efficient voyage management, measurable savings in fuel costs and more precise off-hire calculations.

Key benefits

- Monitor and manage a global fleet 24 x 7 using one system, with complete fleet data accessible in a single view
- Interactive browser-based map presents global position of your fleet
- Route vessel position reports to email and SMS for out-of-office updates
- Option to poll a vessel for a position report
- Customisable Geo-Zones denote user-defined areas or regions of interest
- Automatic increase of position reporting frequency in areas of high security risk or enhanced regulatory requirements provided by Industry Zones feature
- Complete vessel history – essential data for off-hire calculations
- Voyage Monitoring functionality supports schedule and ETA management
- Integrated global weather forecasting, including cyclone information
- 3D mapping applications for customised display
- Complete control of user access to improve data security
- Optional automatic link to USCG Amver reporting system
- Choice of hardware integrations



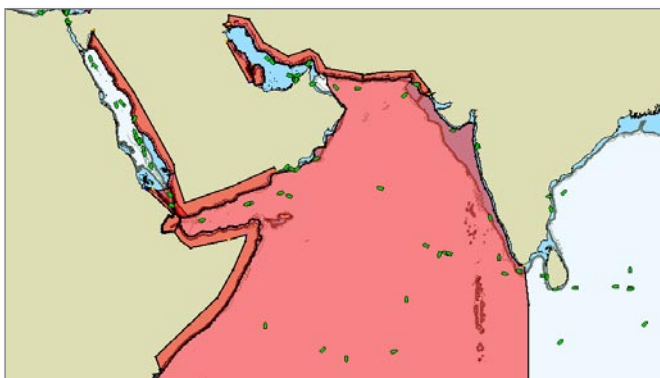
See your ships on one screen

The Pole Star interactive fleet map allows you to view the position and status of your entire fleet, on a single map. By clicking on a specific vessel, you can view its latest position report. Users can create vessel groups to suit their operational needs.

Manage compliance with industry zones

Brand new to Fleet Management, industry zones allows users to enable a series of pre-defined geographical areas that carry additional regulatory requirements or security risks and apply them to the voyage.

Industry zones provides automatic notification when the vessel enters and exits a zone and can automatically increase the reporting interval while the ship is inside the zone.



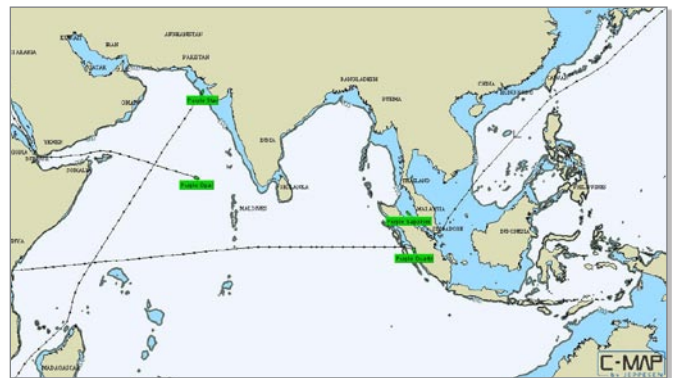
Geographic Areas include:

- MARPOL Special Areas
- Joint War Committee listed areas
- Security areas
- Particularly Sensitive Sea Areas

Using the Zones group feature, users can combine Industry and user defined zones to create customised areas to suit individual operational requirements.

Track your vessel's history

Display the voyage history for a selected vessel, an essential tool for analysing a vessel's actual progress against the schedule, managing its fuel consumption and making precise off-hire calculations.



Report your fleet to Amver

Pole Star is a committed supporter of the US Coast Guard's Automated Mutual Assistance Vessel Rescue System (Amver). Under the Amver scheme, vessels are invited to report to the US Coast Guard so that they can provide assistance in the event of a casualty nearby.

Pole Star Fleet Management provides the option to link to Amver without intervention from users, automatically forwarding position reports from vessels and fleet to Amver at no additional cost.

For more information on the work of Amver, please visit www.amver.com.

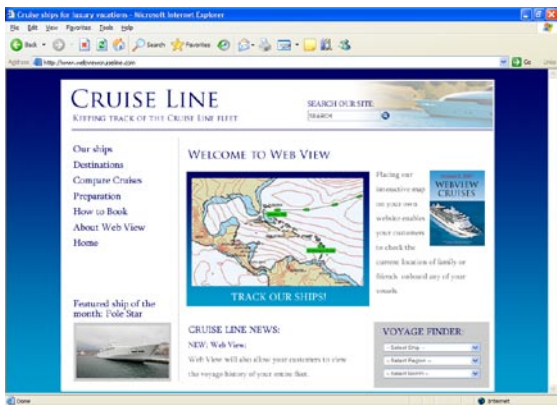
Add a dynamic dimension to your company website or intranet



Put your ships on your website

Web View is a simple display tool which makes the position of your ships and fleet available to a wider audience. Web View provides a customised fleet position map as part of your organisation's public website or corporate intranet.

Web view allows the user to display the fleet on a world map or in a defined region, show either the entire fleet or selected vessels. Sensitive information can be hidden to display basic position only. Vessel information or voyage data can be overlaid as can weather information and can be displayed in 3D.



Keep costs down with budget management

Fleet Management uses a credit tariff system to make budgeting across a fleet simple and provide the maximum flexibility for the user. Users can track their costs online, making analysis of per vessel cost/usage and rebilling as straightforward as possible.

Hardware options to suit you

To track your vessel or fleet requires an Inmarsat-C transceiver such as the GMDSS terminal installed on most SOLAS-compliant vessels. For superior reliability, Pole Star recommends a dedicated transceiver such as Pole Star's FM1 or FM3 hardware.

Inmarsat C transceiver

Tracking via an Inmarsat C terminal has the advantage that no further hardware installation is required. Capsat software version 2.21 or above is required.

Pole Star FM1

A dedicated IsatM2M transceiver designed to track all types of powered vessels, where an Inmarsat C transceiver is not available or not suitable. FM1 comprises an IsatM2M transceiver, cable and mounting bracket.



Pole Star FM3



A dedicated unit designed to track unpowered assets and assets with no suitable power supply. FM3 comprises an IsatM2M transceiver and integral power pack that guarantees 12 months' operations under normal circumstances.

Pole Star offers a **FREE TRIAL** of Fleet Management for users with existing Inmarsat C transceivers. Please contact us for further information.

FEATURE	DESCRIPTION
PRICING	
Registration	One-off registration fee billed on credits
Pay as you go	Purchase credits to pay for your use
Free trial on Inmarsat C	Free tracking for 5 vessels, each with an allocation of credits and customer support

HARDWARE OPTIONS	
Inmarsat C	The vessel's existing Inmarsat C transceiver (includes LRIT Mini C transceivers)
Pole Star FM1	Dedicated Pole Star transceiver for powered vessels
Pole Star FM3	Dedicated Pole Star transceiver for unpowered vessels

CHARTS	
Fleet List	Displays latest position report data for the entire fleet
Interactive Fleet Map	Shows position of fleet on C-Map™ charts with zoom and pan functionality
Zones	Display pre-defined industry zones, create and show user defined zones
Points of Interest	Create and display points of interest
Weather	Overlay 10 day meteorological forecast and cyclone information in graphics and text
Web View	Create customised maps to display on any website

POSITION REPORTING*	
Automatic Position Report (APR)	Position report sent automatically at a fixed interval
Zone reporting interval	Automated change of reporting interval in selected zones
Set reporting interval	Ability to change the reporting interval (not FM3)
Request a position report (poll)	Send a signal to request a position report (not FM3)
Overdue position reports	Receive warning if a vessel has not reported within a specified time period
Position report history	View and download a vessel's position reports

TOOLS	
Email notifications	Send position reports to an unlimited number of email addresses
SMS notifications	Send position reports to mobile phone numbers by SMS
Zone notifications	Receive email/SMS warning when vessel reports position in or out of any zone
Postings	Display extra information (eg ETA) in a position report
Asset groups	Create groups of vessels, eg by type, size or region
Traffic log	View and download a log of all communications
Messaging	Messaging to and from the tracked Inmarsat C transceiver
Credit reports	Give current credit quantity and usage

USERS	
Master user	Login with full control of the service
Standard users	Create unlimited standard logins to access specific parts of the fleet
Assign vessels to user	For example, by superintendent or by type

Most Inmarsat C terminals are supported, but users of older terminals are strongly advised to check the hardware compatibility list at www.polestarglobal.com/hcl.html before purchasing.

* Pole Star will use reasonable endeavours to track your transceiver and deliver your position reports. However, sometimes this is not possible due to factors beyond our control, such as satellite communications failure.