

Today's challenges demand
tomorrow's technology

SSAS ALERT ADVANCED

Increased piracy attacks and the growing threat of terrorist incidents have focused attention on the need for a reliable ship security alert system. Proven in service, Pole Star's SOLAS XI-2/6 compliant system has robust features including an integral battery back-up to further improve reliability. So if the worst happens and all other communication is lost, your vessel will keep reporting.

Pole Star's Alert Advanced package comprises two elements: the onboard hardware and shore-based Ship Security Alert System (SSAS) online management system.

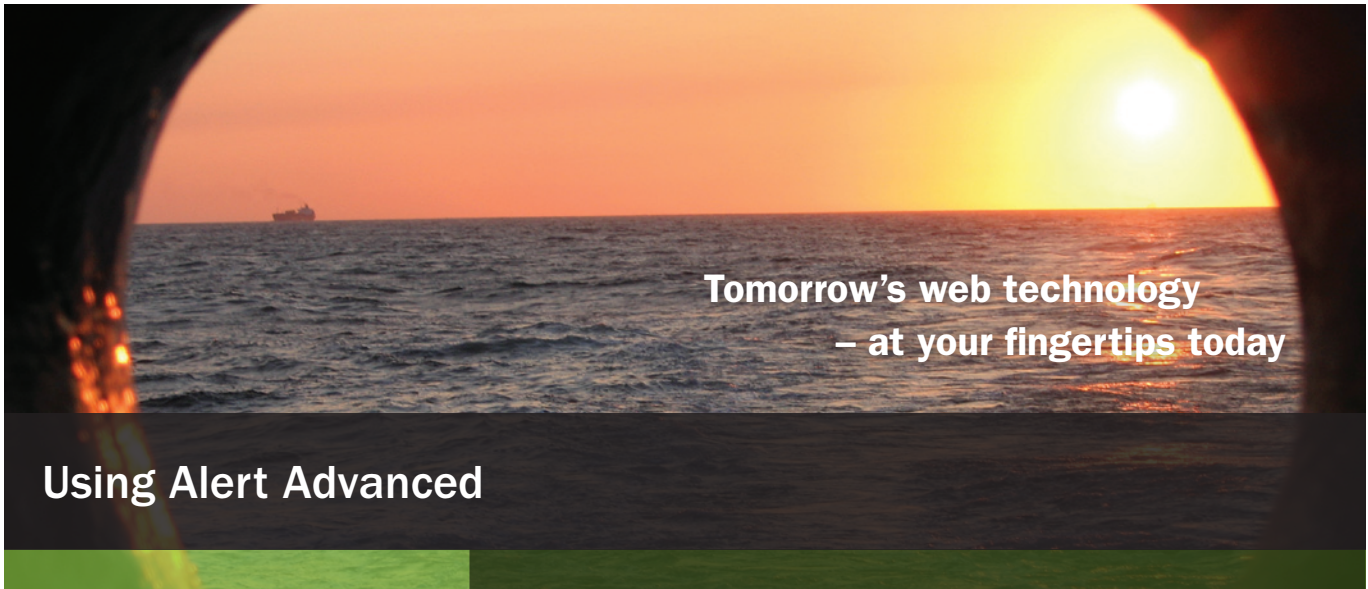
Onboard equipment consists of a transceiver with concealed antenna which is linked to two alert activation points. In the event of a security alert, when an activation point is triggered, there is no indication on board that the alarm has been raised.

A ship-to-shore security alert message is transmitted and via the online management system is delivered to

designated recipients (including Flag Administration, as required), identifying the vessel and its location.

The alert message is repeated at 30 minute intervals until the SSAS is reset.

All alerts and associated position reports are managed in the renowned Pole Star website that provides a host of up-to-the-minute features essential for the effective management of any ship security alerts.



Tomorrow's web technology
– at your fingertips today

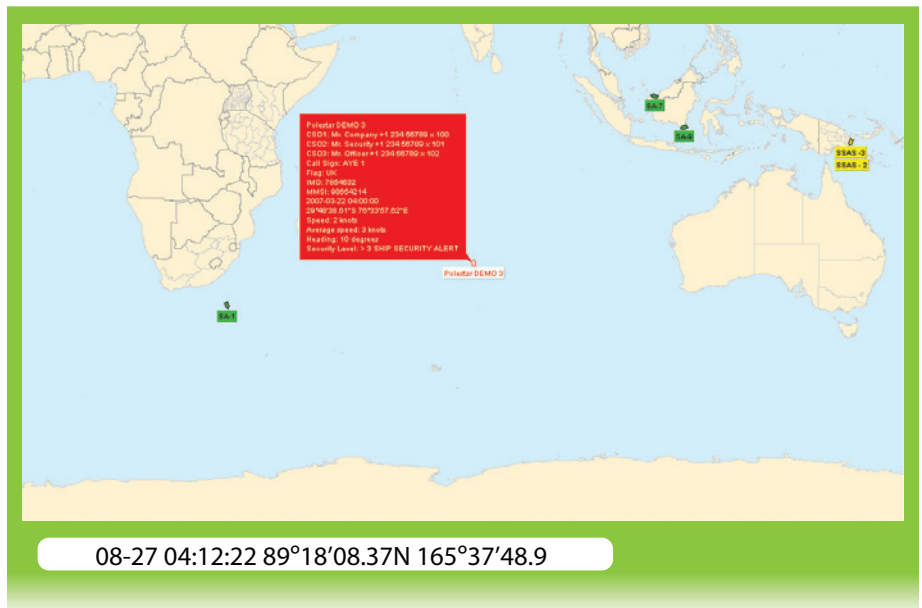
Using Alert Advanced

Alert Advanced enables you to:

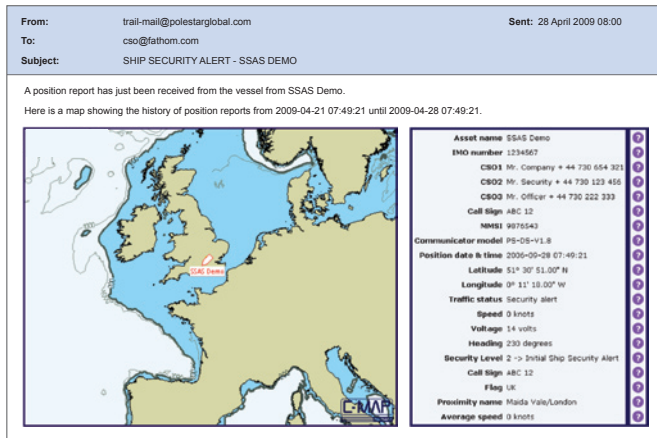
- Manage fleet security using a proven and reliable Ship Security Alert System
- Keep information secure by limiting access to the system to authorised parties via secure logins
- Control distribution of data to designated recipients
- Have choice of alert message delivery methods – email, fax, SMS, telex
- Know if the equipment has been tampered with
- Receive warning report of low battery voltage
- Install Pole Star's dedicated DSAS hardware or integrate other manufacturers' SSAS units, so that security management for the entire fleet is on one system

Monitoring a security incident

- Use zoom function on C-Map charts to focus on vessel and its surroundings
- Poll the onboard unit to request an immediate position report to get the latest data on a vessel's position, speed, heading, nearest port
- Increase position reporting frequency (up to one every 15 minutes) to be kept informed of vessel's movements
- View detailed meteorological forecast on C-Map charts (choose from wind speed/direction, swell wave direction/height/period etc)
- View storm, cyclone and hurricane data which may affect the vessel's progress



Controlling access to data



- Set up separate logins for responsible superintendents
- Assign specific vessel group to each login
- Control level of access to each login according to level of delegated responsibility
- Set up notifications for security alerts and routine tests for authorised recipients — colleagues, Competent Authority, Flag Administration

Hardware options

Pole Star DSAS

A self-contained unit consisting of an integrated Inmarsat D+/GPS satellite transceiver, power management unit and back-up batteries which will keep the unit fully functional for several days in the event of a power failure. Linked to two separate external alert buttons, the unit has no external antenna and does not resemble typical satellite communications equipment.

Third party equipment

The following SSAS units can now be integrated with the Alert Advanced service:

- Furuno Felcom 15/16 SSAS
- Satamatics Ocean Alert
- JRC JUE SSAS
- Thrane & Thrane SAILOR TT-3000SSA
- Nera Mini-C SSAS
- Transas Ship Guard SSAS

If you have a SSAS unit not listed here, please contact us to discuss your integration requirements.

Out of office, travelling — no problem with Pole Star. Simply download the Mini Map application to your mobile device and alerts, polling, vessel positions are all at your fingertips.



Security incidents can occur at any time and speedy response is vital. With Mini Map, the moment an alert is delivered to your mobile device, you can log in to appraise the situation. As with any event, response in the first few minutes is vital.

The mobile device must have internet access and support Java technology.

Access to Mini Map is via secure login and password.

Mini Map — for data on the move

FEATURE	DESCRIPTION
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HARDWARE OPTIONS

DSAS	Compact, integrated Inmarsat D+/GPS transceiver, constructed using a tough polycarbonate enclosure and protected by a stainless steel casing, power management unit, back-up batteries and two alert activation points
Third party equipment	Hardware compatibility list: Thrane & Thrane TT-3000SSA, Furuno Felcom 15/16 SSAS, JRC JUE SSAS, Nera Mini-C SSAS, Satamatics Ocean Alert, Transas Ship Guard

POSITION REPORTING

Automatic Position Report (APR)	The default setting is 1 position report per day
Security Alert Position Report (SPR)	Unlimited SPRs for real security alerts and routine testing
Warning Report (DSAS only)	Sends notification of battery or power problem or tampering with onboard unit
Change reporting frequency	Send command to change the reporting interval
Poll for position	Send command to request an immediate position report
Report history	View and download a log of all reports

FLEET INFORMATION

Fleet list	View latest report data for entire fleet
Fleet map	View position and status of entire fleet at a glance on C-Map charts
Vessel map	View position history trail and status of an individual vessel on C-Map charts
Meteorological information	10 day meteorological forecast and cyclone/storm/hurricane information

TOOLS

Postings	Add/edit data displayed in position reports
Notifications	Program system to transmit reports to designated recipients via email/SMS/fax
Manage alerts	Manage and reset real security alerts and test alerts from your PC/mobile device

SECURITY

Master password	Full access and control of Alert Advanced
Assistant password	Limited access and control of Alert Advanced
View password	Read only access to Alert Advanced

HELP

Support	Full technical and customer support from Pole Star
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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.