

Sentinel

Surveillance and Secure Information System



Standard Mode



Silent mode



Secure mode

Sentinel is an AIS surveillance and secure information system built on proven AIS display technology for use by military, paramilitary and government organizations.

Sentinel offers AIS standard and private communications capabilities through the Secure Communication Module to deliver a common operating picture to all friendly Sentinel participants. It permits the simultaneous covert tracking of standard AIS participants, allowing you to monitor the network without being detected.

Organizations can jointly, or independently, benefit from Sentinel software, including Coast Guards, Navies, Police, Port Authorities, and National Security Forces.

It is a very cost effective solution for the latest surveillance capabilities and one of the most comprehensive AIS based secure information systems in the world. Calculate the value added to your organization with all Sentinel participants seeing the same picture of vessel traffic, combined with the ability to send encrypted messages and position reports. The ongoing carriage requirements for AIS, and the widespread appeal of the AIS network for increased safety at sea, make Sentinel software a must for your organization.



CNS SystemsTM



Features & Functionality

- Sentinel has an easy-to-use, highly configurable control panel consisting of a 3D status interface with button control. It appears on the Chart/Plotter window indicating when the system is in secure mode.
- The user is presented with layers of control based on the buttons that are selected. Each control can change the panel to reveal more options whenever they are required.
- The target manager saves all AIS targets in a secure database.
- Sentinel utilizes existing AIS network technology and infrastructure and allows the user to receive, schedule and transmit encrypted messages to other Sentinel participants.
- Search, sort and filter targets for display on the Chart/Plotter window.
- Unique AIS target symbology for commercial vessels, designated Targets of Interest (TOI), and other Sentinel participants.
- Easily track any vessel in a busy port. Sentinel vessels can communicate TOI target information to all Sentinel participants through encrypted messaging.
- Sentinel uses the Secure Communication Module encryption that is FIPS (Federal Information Processing Standards) certified, this ensuring the best level of security available, for all secure communications.
- Notify other Sentinel participants of repeated unsuccessful login attempts.
- Sentinel is an add-on module to both of CNS Systems Horizon and Aldebaran software.

Additional Modules Available

- Spoofing module – Allows you to spoof your own, and other vessel positions; transmitting falsified positions based on a route. You create the route and have “ghost ships” follow them (using false Static, Dynamic and Voyage Related data).
- Anti-Spoofing Module/Behavioral Analysis – Provides Sentinel with the ability to detect intentional and unintentional errors in vessels transmitted AIS data.



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