Vessel Activity Monitoring for Submarine Cable Protection

AIS | Chronicle

Reduce subsea fault rates, improve MTTR and recover repair costs with the vessel activity monitoring system designed exclusively for submarine cable protection.

AIS Chronicle has been designed from the ground up for reliable, long term vessel activity monitoring over subsea cable systems. AIS Chronicle is the only system that does not rely on a working Internet connection to record vessel movements and generate alerts.

With over five years experience protecting cable systems around the world, Sea Reach Systems offers a host of management and data analysis services to ensure that the AIS data is fully exploited and cable protection maximised using minimal internal resources.

As subsea cable operators face continuing price erosion and ever higher demand for capacity on key routes, the impact of subsea faults is increasing. Reducing fault rates through automated, targeted offshore liaison improves headline network availability and all important customer retention. Operating costs are reduced through well formed claims when cable damage occurs.

AIS Chronicle stores vessel activity data locally to eliminate reliance on an Internet connection. When vessels threaten the cable, automated alerts are sent by cellular SMS, or Iridium® SBD satellite link to the cable operator. Redundant DC power makes use of cable station infrastructure for reliable operation.

Alerts can be sent directly to the bridge of vessels which threaten the cable by Inmarsat® or AIS binary messaging.

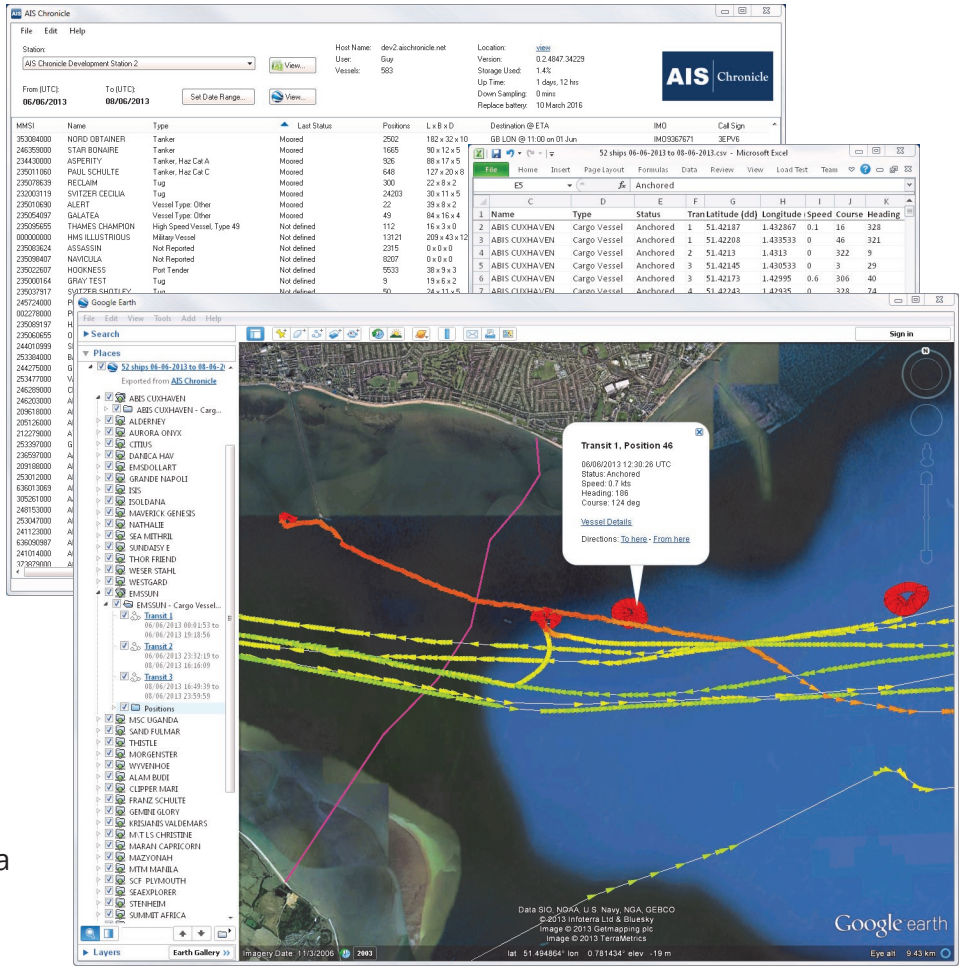
AIS Chronicle includes a state-of-the-art outdoor AIS receiver and carefully selected high gain antenna for optimum coverage of cable routes.

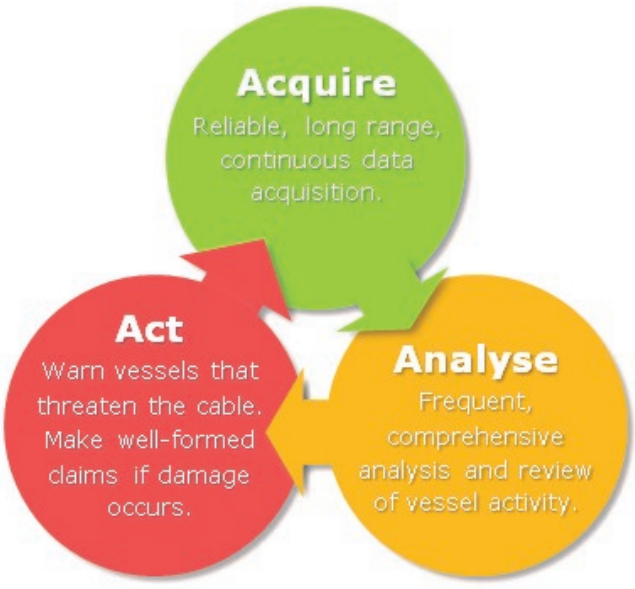
AIS data is stored locally on solid state media which means that no data is lost when the Internet connection is down. Filtering is carried out before storage to provide a manageable yet high resolution data set.

AIS Chronicle is designed for cable protection with carrier class reliability. It does not use components designed for shipboard and vessel traffic management purposes. Uninterrupted operation is assured through a separate supervisory channel.

AIS Chronicle includes the facility to stream to an unlimited number of data aggregation services, such as Marine Traffic, so you're data is always visible.

Where available, any kind of Internet connection can be used by wired, wireless, or cellular connection via the integrated cellular modem. Where no Internet connection is available data can be downloaded locally.





Alerts are reliably dispatched via Internet connection, 3G/4G, 2G SMS or Iridium® SBD data link. Alerts can be sent to your existing alarm concentrator or management system for frictionless integration with your existing network operations.

AIS Chronicle can be interfaced to your PFE via its station alarm outputs. When an alarm is generated, a list of any vessels over the cable is automatically dispatched. This allows swift action to be taken to stop further faults occurring on other cables at the same or adjacent landing points.

For cable protection beyond the limit of AIS range, AIS Chronicle accepts input from satellite derived AIS data sources. This is seamlessly integrated with the terrestrially sourced data for easy processing.

AIS Chronicle can send alerts directly to vessels which pose a risk to the cable. Alerts are dispatched through Inmarsat® or AIS binary addressed messages to provide a fully automated, proactive cable protection system.

Sea Reach Systems

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