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Cloud base vessel data services link directly to on-board networks and sensors.

Brookings, Oregon —February 12, 2014

Chetco Digital Instruments launches HelmSmart™ vessel instrumentation web site offering Cloud-based data access to its line of SeaSmart network adapters. HelmSmart.net provides a collection of dynamic web pages that link with PushSmart™ Cloud Database and messaging services to present virtual dashboards. Vessel data can be viewed in a variety of formats including Map overlays, charts, spreadsheets, instrumentation, and alarm/status messages. High speed cloud servers provide 24/7 search engine access and global distribution for stored data as well as real-time messaging and live monitoring anywhere with internet access.

The core of the HelmSmart™ architecture is the cloud-based PushSmart™ Database engine which receives live feeds from SeaSmart adapters, decodes all the parameters into discrete values, and stores them in a redundant data warehouse. Simultaneously, processed data is sent back out using cloud messaging services to millions of client connections. As a result, a single SeaSmart network adapter can broadcast to thousands of data consumers without requiring any additional on-board equipment. Clients can log into the HelmSmart Web site to view live vessel instrumentation while also performing high-speed searches on any vessel network parameter over specified historical intervals. This allows operators to see what a vessel is currently doing while comparing to stored information. For example, current oil pressure readings can be compared against a previous trip for a given engine RPM to determine if a filter needs service.



HelmSmart™ is designed to simplify access to vessel network data by creating a common format for all sensors like fluid tanks, batteries, bilge levels, engines, weather, compass, sonar and more. Existing networks are supported including Ethernet, CAN Bus (J19), WiFi, NMEA 2000 and NMEA 0183. SeaSmart Gateways provide the physical interface from vessel to cloud while HelmSmart™ provides the client visual interface. HelmSmart is compatible with other vendor protocols and equipment including Garmin, Navico (Lowrance/Simrad), Raymarine, Hummingbird, Maretron, and Actisense. Once data reaches the HelmSmart cloud, it does not matter where it came from.

HelmSmart™ leverages the power of existing internet technology and services to provide broad data access. “For the first time we have a true “Search Engine” approach to marine data” commented Joe Burke CTO for Chetco Digital Instruments. “Developers now have a cross platform standard to access live and stored data which will expand the resources to analyze and view it” he added. By assuring compatibility with other vendors, HelmSmart™ can be quickly integrated into new applications. With thousands of programmers working with internet languages and devices, a global community is already familiar with HelmSmart’s protocols to support application development.

All that is required to start using the HelmSmart™ service is a SeaSmart Gateway and internet connection. SeaSmart adapters can access the internet directly via WiFi hotspots, Cellular networks, cable modems, and Ethernet. If no connection is available, SeaSmart will record data to local SD memory which can be later uploaded to the HelmSmart servers using built-in browser interface. The SD memory cards can hold over a years worth of data and can be removed for manual upload. Data can be also uploaded directly from any PC/Laptop with an internet connection and network gateway such as a NMEA 2000 to USB adapter from Chetco Digital or Active Research. SeaGauge products are also available to convert up 16 sensor outputs directly to PushSmart™ Protocol and send directly to HelmSmart servers without requiring a full on-board network.

HelmSmart.net utilizes widely available browser platforms such as tablets, laptops, net books, and smartphones and supports operating systems including Windows, iOS, Android, Linux, and more. No apps are required for the purely browser based solution assuring true cross-platform compatibility.

HelmSmart™ can be integrated with Cloud based apps like Google Docs and GeckoBoard to expand its reach. HelmSmart charts can be linked in from other sites to show vessel data trends and remote monitoring. A full API is available to access the PushSmart Data Base directly so that a service such as Google Spreadsheets can show engine temp or Google Maps for ship’s position.

For further information on HelmSmart visit www.HelmSmart.com. Guests can access the live site at www.HemSmart.net and view actual sample data. SeaSmart.net products are available directly on-line at www.seasmart.net and www.digitalmarinegauges.com . Pricing starts at \$295 for USB/Serial and \$395 for the basic NMEA 2000. Volume and kit pricing is available.

For more information on SeaSmart.Net™ visit www.seasmart.net. For SeaGauge™, and other Chetco Digital Instruments products, and where to buy, see our web site at www.digitalmarinegauges.com, email sales@chetcodigital.com or call 541 469 4783.

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