

SperrySphere The Smart Navigation Platform for Ships

Fleet operators encounter well-known problems connecting back and front of bridge systems, including unsecured data transfer, risk of human error and lack of an integrated system that has a high risk of cyber attack, accidents and inefficiency.

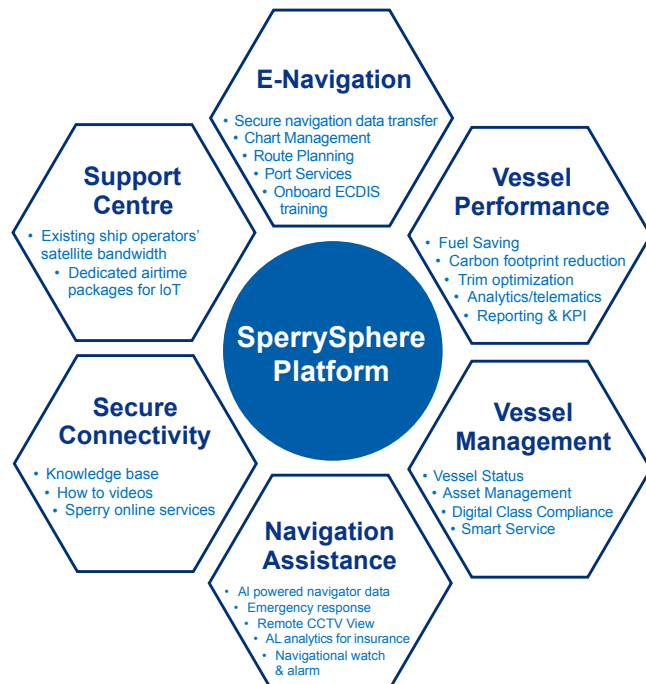
In response Sperry Marine has introduced **SperrySphere, the smart navigation platform.** SperrySphere is an open, back of bridge integrated digital platform, securely connected to the navigation system enabling the higher level of cyber security during data transfer. It is an one-stop-shop solution capable of delivering a wide variety of smart navigation services aiming for safer navigations, greener navigation and more efficient vessel operations.

All at the navigators' fingertips





SperrySphere platform benefits:

- Reduced operational costs with improved vessel efficiency and regulatory compliance (SOLAS, SEEMP, EEXI) through a combination of world leading applications deployed and managed on the platform.
 - Improved cyber security and safety from integration of SperrySphere Connected ECDIS with Secure Maritime Gateway which exceeds the prevailing IEC standards
 - Fully-integrated suite of smart navigation applications securely connected to the front of bridge and shore
 - SperrySphere enables a suite of Sperry Marine Smart Navigation Services services consisting of six main categories that will keep evolving with additional features and applications to achieve a higher level of safety and more efficient vessel operation for every navigator and supporting shore team.
- ✓ The possibility to greatly reduce operational costs
 - ✓ Improve vessel efficiency security and safety
 - ✓ Reduce navigator fatigue
 - ✓ Minimize environmental impacts



The SperrySphere platform is integrated with the Sperry Marine VisionMaster bridge and currently includes services in the E-Navigation category as shown in the table below. As the product evolves, additional features and services will be added in all application categories (including Vessel Performance, Vessel Management, Navigation Assistance) as well as connectivity to other Sperry Marine products and third-party navigation and ship systems.

	Application & Services	Capabilities	Providers
E-Navigation	1. Connected ECDIS	<ul style="list-style-type: none"> - Supporting your cyber risk management strategy, enabling secure data transfer to the ECDIS without USB sticks through Sperry Marine's Secure Maritime Gateway that exceeds the standard requirement for a Gateway resulting in the higher level of cyber secure navigation. Providing high flexibility 	Sperry Marine
	2. Charts	<ul style="list-style-type: none"> - Charts are compatible with all maker of ECDIS with choices of purchase options available for subscription model. - Integrated with Connected ECDIS for automatic chart updates to the gateway resulting in less administrative workload. - Available with NavTracker, the chart management and ordering tool – an easy way to track, report and manage vessel and fleet movement. 	Sperry Marine 
	3. Voyage Planning	<ul style="list-style-type: none"> - NavStation software employed on SperrySphere workstation puts all critical voyage information in one place helping navigators plan a safe, secure and economical route. - All digital navigational data can be easily grabbed, swiped, and manoeuvred in various layers including passage and route planning tool. - Effortlessly access required documentation while planning vessel voyages. 	Sperry Marine 

The one-stop-shop for navigation and vessel performance.

sales@sperry.ngc.com

A division of the Northrop Grumman Corporation, Sperry Marine provides a range of sophisticated navigation solutions for mariners around the world: autopilot and steering control systems, compass systems, integrated navigation and bridge systems, integrated platform management systems, speedlogs, navigation radar and ECDIS. Working with mariners around the globe for over 100 years.

