Connected ECDIS and Secure Maritime Gateway

The key to secure navigation data and intelligent navigation

The secure maritime gateway is the centre of the connected bridge, connecting the ECDIS, the Integrated Bridge System and shore, with simple and secure transfer of navigation data.

## Todays challenges for secure and intelligent navigation

- The human factor is the single biggest liability issue with Cyber Security
- Navigation chart data transfer using memory sticks is a known cyber vulnerability
- Remote support for navigation equipment
- Easy exchange of navigation data to enable route optimisation and vessel optimisation solutions
- Requirement for vessels to have an effective cyber risk management strategy
- Increasing number of intelligent applications that all need easy access to the same set of chart, route and navigation data

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Make sure your bridge processes are fool proof when implementing cyber security management procedures: No transfer of data files via USB drives.

Connection from the ECDIS/IBS network to other controlled or uncontrolled networks via the type approved Secure Maritime Gateway (SMG) to comply with IEC 61162-460 performance standard to ensure the data exchange is safe and controlled.

The Secure Maritime Gateway is a remotely managed solution that forms a bridge between ship and shore. Installed as a hardware box within the onboard network, the SMG ensures secure connection to ECDIS to keep the ECDIS safe, compliant and always up to date.

Sperrymarine
the navigation experts
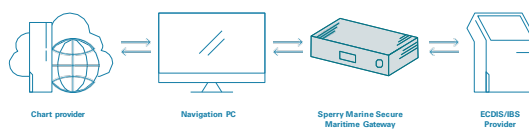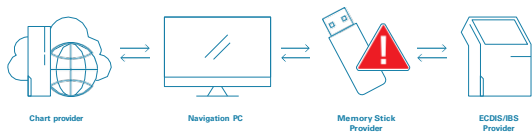
Features

- Enables manual and automatic transfer of navigation data (charts, chart updates, chart permits, optimized routes, Admiralty information overlay)

- Compliant with any chart provider and with any ECDIS that has the ability to map a network drive.

- Enables sharing of live navigation data from bridge system to third party applications for route optimisation, vessel performance and remote support

- Gateway can be remotely monitored and accessed for support

- Improves cyber resilience by segregating Front of bridge OT network, Back of Bridge IT network and private SperrySphere LAN network whilst allowing data to be securely exchanged between them

- The SMG has been security hardened in accordance with good practice recommended by the Azure Linux benchmark and Centre for Internet Security (CIS) benchmarks

Benefits

High level of cyber secure navigation
- Sperry Marine Secure Maritime Gateway is DNV certified to IEC 61162-460 and exceeds the requirements for a gateway as defined in the standard

Highly compliant/compatible/interoperable
- Compliant with any chart provider
- Compliant with any ECDIS that has the ability to map a network drive

Efficient
- Automatic chart updates eliminates administrative tasks and reduces human error

Future proof
- SMG gives access to roadmap of Smart Support, Intelligent Navigation and Fleet Insight services

Manual and automatic chart updating to Secure Maritime Gateway

Chart data can be saved to the Secure Maritime Gateway from the navigation PC or SperrySphere workstation. This may be performed either manually or automatically, depending on the capabilities of the chart distributor. Automatic chart update capabilities available for:

NAVTOR / OneOcean chart updates

For a bridge PC or SperrySphere workstation installed with NAVTOR NavBox software or the OneOcean Voyage planning application , chart data can be automatically saved to the "Charts" folder on the Secure Maritime Gateway.

ChartWorld chart updates

The Secure Maritime Gateway can be remotely configured to receive charts directly from the Chartworld cloud and to automatically store them within the "Charts" folder on the Secure Maritime Gateway.

Check with Sperry Marine for availability of automatic chart updates from any other chart distributor

SperrySphere

The intelligent navigation platform for ships and shore

With the heritage of being at the forefront of innovations in navigation, Sperry Marine have created SperrySphere, an integrated, easy to use platform with a choice of industry leading digital services that enable greener, safer and more efficient navigation.

Your Sperry Marine advantage.

SperrySphere will be continuously developed and enriched with new features and applications in six categories based on feedback from users to mature the solution over time.

The intelligent navigation platform for ships and shore

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