Nautilus ChartServer

Nautilus ChartServer imagery used in Graphic Information System (GIS) for the surveillance of offshore wind farms.

PRODUCT DESCRIPTION:

Nautilus ChartServer is our next-generation chart rendering and distribution engine, designed to expand upon the capabilities of the WMS ChartServer. Nautilus ChartServer meets the evolving demands of maritime, defense, and autonomous navigation systems and offers a modern, scalable, and S-100-ready solution for integrating nautical charts into geospatial applications.

Where the displaying and processing of maritime domain information is critical, Nautilus ChartServer is the solution of choice for:

- Naval manufactures for Combat Management Systems
- Maritime surveillance
- Shipping companies for vessel monitoring
- Manufacturers or Operators of remote controlled or autonomous vessels/vehicles
- Hydrographic Offices / S-100 Data Producers.

WHAT IT DOES

Nautilus ChartServer enables the display of electronic navigational charts (ENCs) and other maritime data formats as part of multi-user, web-based, or embedded systems.

S-100 READY SOLUTION

- S-57, S-101 ENC, IENC, AML support
- S-102 (bathymetric surface) and future S-100-based products*

Nautilus ChartServer provides chart images and data to client applications via standard web services, making it ideal for:

FLEET MONITORING & VOYAGE PLANNING

Enables collaborative planning, emergency response, and post-voyage analytics.

COMBAT MANAGEMENT SYSTEMS

Integrates with AML, Mil-2525*, DTED*, ARINC* standards for tactical operations and situational awareness.

AUTONOMOUS & REMOTE-CONTROLLED VESSELS

Provides chart background to command centers and object databases for remote USV navigation and collision avoidance.

Flexible Integration: Easily embeds into third-party applications with reduced API complexity.
Scalable Architecture: Deployable via virtual machines or containerized environments (e.g., Kubernetes).
Ease of Use: Quick installation and configuration, a chart install wizard, and centralized chart library management.

TECHNICAL HIGHLIGHTS:

- **Web Portal:** Remote configuration, chart updates, and a WMS viewer.
- **Data Query Functionality:** Supports advanced querying of chart data.
- **OGC API Support:** Features, Maps, Tiles, and vector tile rendering on client side*
- **Scalability:** Via one chart library and multiple server instances.

DEPLOYMENT OPTIONS

Virtual Machines

Each VM maintains its own chart library and configuration. Suitable for fixed client loads.

Containerized Hosting

Shared resources with flexible scaling. Ideal for dynamic environments and cloud-native deployments.

WHY NAUTILUS CHARTSERVER?

* Feature coming soon

SEVENCS GMBH

ZIRKUSWEG 1, ATLANTIC HAUS
D - 20359 HAMBURG
PHONE: +49 (0) 40 851 72 40
FAX: +49 (0) 40 851 72 4 79

SALES@SEVENCS.COM