



# PORT VOYAGER™

Port Voyager is a maritime port and harbor transit management application focused on underkeel clearance to reduce the risk of vessel grounding. This software uses S-100 hydrographic information related to weather, tides, currents, vessel characteristics, and other real-time data. In addition, Port Voyager optimizes route plans based on port traffic.



## Features

- Ability to generate fully compliant S-129 exchange sets customized based on vessels transit, vessels dynamics, tides, currents, and weather. Option for use with FairSeas Unify to provide a data source to both new and legacy systems, generating S-129 compliant product overlays that can be distributed within geospatial applications like Portable Pilot Units (PPUs) and the Electronic Chart Display and Information System (ECDIS).
- Use of both current and new S-100-based navigation and weather information to analyze, distribute, and manage vessel transits.
- Allowance for multiple vessels to receive port specific S-129 exchange sets specifically analyzed with UKC as a primary focus.
- A web-based User Interface and a defined Web Data Service for client interfacing.

## Typical Applications

Port Voyager can be used in both civil and military maritime domains:

- Unmanned systems charting services and analysis
- e-Navigation Solutions
- Inland and Coastal Electronic Charting System (ECS)
- Integrated Bridge Systems (IBS)
- Combat systems
- Vessel Traffic Service (VTS)
- Training and simulation systems
- University Geospatial Labs

## Supported Operating Systems

- Windows 11 and Windows Server
- Linux Desktop and Server

## Functionality

- S-129 UKC exchange set generation and distribution
- UKC and anti-grounding analysis
- Port traffic management, monitoring, analysis, and optimization
- Control Center Route planning and monitoring
- Chart Display
- Day, night, dusk, and custom presentation modes

## Application Technology

- C#
- .NET
- ASP.NET
- Blazor
- Docker

## Next Generation Navigation Decision Support Tools

GeoNavigation Technologies FairSeas products are here to assist the mariner in safe navigation from port to port.



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