



# G-ARC™

The Geospatial Architecture (G-Arc) is a Software Development Kit (SDK) that provides a framework for creating custom/OEM specific navigation grade geospatial software applications.

This SDK is developed in C# and is .NET compliant for cross platform solutions.



## Framework for Development

G-Arc is the building block of the FairSeas Unify and Port Voyager products, and can be leveraged to support development of other navigation geospatial software.

## Typical Applications

For use with both approved maritime Electronic Chart Display and Information System (ECDIS) and Electronic Charting System (ECS) applications, as well as civil and military applications, including:

- Recreational navigation devices
- Unmanned systems charting services and analysis
- Command and Control solutions
- e-Navigation Solutions
- Inland and Coastal ECS
- ECDIS, Navy ECDIS and World ECDIS
- Integrated Bridge Systems (IBS)
- Combat systems
- Vessel Traffic Service (VTS)
- Harbor and coastal solutions
- Training and simulation systems
- Search and Rescue (SAR)
- Voyage Data Recording (VDR) Applications
- University Geospatial Labs
- Hydrographic Organizations (HOs)

## Functionality

- All S-100 compliant products
- S-100 data analysis
- Chart handling
- Chart display
- Day, night, dusk, and custom presentation modes
- Web data services client; server capabilities

## Application Technology

- C#
- .NET
- Other languages through Protobuf and gRPC

## Supported Operating Systems

- Windows 11 and Windows Server
- Linux Desktop and Server

## 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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