

caris

CARIS

PORTIS

Facilitate the Supervision
and Maintenance of your Waterways



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Transform multiple sources of spatial data into information that supports your business decision-making needs. PORTIS offers a seamless environment where various sources of information are combined for improved analysis and interpretation. Individual sources of data are integrated into a common platform providing improved visualization and easier access.

A Single Portal to all of your Geospatial Information

CARIS PORTIS is a Web mapping system designed for the port and waterway industry. Whether you are scheduling construction, planning a hydrographic survey operation, or trying to find the location of a service vehicle, you must gather information to make an informed decision. This information may

not come from a single source or arrive in a timely fashion. CARIS Port Information System (PORTIS) is designed to reduce the overhead of information gathering and integrate multiple sources of data. PORTIS is used around the world by military organizations, large and small port authorities and coast guards.

Decision makers need access to their data immediately, even when they are away from the office. With PORTIS, you can work with your information from anywhere an Internet connection is available. Its security features let you customize access to specific parts of your data, allowing it to be used both within your organization and by external clients. PORTIS helps you streamline your operations by giving you easy access to well-integrated information when you need it, wherever you are.

Improved Analysis Capabilities

Most organizations already have existing systems in place that perform well for specific tasks and maybe some other legacy systems that are just too difficult to replace. PORTIS allows you to leverage



Access multiple data sources from a single application



Environmental Monitoring

- Visualize your current or forecasted environmental conditions

Geospatial Mapping

- Combine numerous mapping sources from national as well as local organizations
- Support various formats without costly conversions

Bathymetric and Channel Analysis

- Access your entire bathymetric model and maintained channels for display, query, and analysis
- Analyze current conditions, display in real-time with tide, create reports from results

Traffic Surveillance

- Track, record, and replay moving targets from AIS and other positioning sources
- Correlate traffic events with environmental, channel, and bathymetric conditions

these investments by making your existing data available on a platform that integrates it with other sources of information. Static geospatial data, such as hydrographic charts, aerial photography and CAD drawings can be displayed together with dynamic data such as bathymetry, weather and even mobile assets.

Support Industry Standards

PORTIS implements the Open Geospatial Consortium, IncTM (OGC) specifications for Web Map Service (WMS) and Web Feature Service (WFS), so you can easily share your data with other organizations in a format that they can read, or connect to external Web sites to bring data in. The WMS and WFS capabilities in PORTIS make it easy for government and academic organizations to make their data available to the public.

Keep Track of your Mobile Assets at all Times

Whether you want to monitor all of the vehicle traffic on the Automatic Identification System (AIS) band, or track your own mobile assets such as dredges, survey vessels or vehicles with Global

Positioning System (GPS) transponders, the flexible Target Tracking Module available for PORTIS can adapt to your needs. The Target Tracking Module follows the AIS standard and has a customizable interface to other proprietary communication protocols. Custom reports that include the target's activity over a period of time can be generated in a matter of seconds. The Target Tracking Module can also integrate other information sources, such as those monitoring bathymetry and water level, and generate opportunities for sophisticated analysis such as voyage surveillance and planning.

CARIS PORTIS Features

Standard Geospatial Functionality

- Multi-format Base Mapping including: S-57 ENC, BSB, GeoTIFF, MrSID, TIFF/TFW, TIFF/IGA, CARIS, DGN, DWG, DXF, MIF/MID, SHAPE, Oracle® Spatial, OGC™, and geospatial point data
- Thematic mapping
- Area and distance calculations
- Multiple selection mechanisms
- Multimedia links to external documents
- Dynamically re-project any of your data sources to seamlessly combine them with others on your screen
- Produce simple HTML reports
- Both metric and imperial unit systems are fully supported
- Set up your own custom tree of views that can quickly take you to a specific site with pre-defined layers and geographic covers

Mobile Asset Tracking Service

- Integrate real-time tracking of vessels and vehicles
- Positioning sources include: DBL (Database Locator), AIS (Automatic Identification System), GPS-based systems, and others
- Use real-time or replay mode
- Link to the target's external attributes (e.g. ship's characteristics database)
- Automatically poll and update dynamic data such as target position

Bathymetric Analysis

- Direct access to bathymetric and channel data maintained by CARIS BEAMS
- Flexible display parameters, colour options, filters and views comparable to CARIS BEAMS
- Automatically poll dynamic data such as water level and apply it to the bathymetric model
- Generate bathymetric profiles along any orientation in the waterway

Secure and Scalable

- Your requests are sent to the server(s) where they are processed. The server sends back the resulting "smart image" that can be queried but never sends the actual data files
- Control and customize data access using specific user groups
- Username/Password access
- PORTIS can scale from a single user solution to an Application Service Provider (ASP) solution serving thousands of simultaneous users
- Easy Maintenance: End-user PCs do not require any sophisticated software other than a Java-enabled browser. IT staff no longer have to worry about installing updates, patches, etc. on each end-user PC
- Have real-time access to your data the instant it has been updated

PORTIS Framework Architecture



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