

Municipal Geospatial Solutions



Integrate your Corporation
with Geospatial Information

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Our scalable Municipal Geospatial Solutions will assist your municipality by providing new and more efficient ways of delivering internal and external services.

CARIS desktop, database and Web-based geospatial tools can be integrated with your current business applications to provide a complete enterprise solution, or can be deployed independently to meet a specific service need. Our solutions will provide you with access to reliable, current and accurate information. By streamlining business processes and centralizing disparate data, your corporation will have easy access to geospatial information allowing informed and efficient decision-making.



The Enterprise Solution

Before deploying an enterprise solution the CARIS team will work with your corporation to gain an in-depth knowledge of your municipality to ensure that all your geospatial needs are met.

Municipal data will then be defined and loaded into the CARIS Core Production Database (CPD). Information that has already been mapped using GIS or mapping software like CARIS Carta can be brought into CPD directly. It is likely that the majority of information will probably exist in business applications, relational databases and spreadsheets. CARIS will work with the corporation to establish what information has a spatial component and determine how it can be brought into CPD and fused with other information that exists in the municipality to provide added value services.

CPD utilizes a customizable municipal data model hosted in an Oracle® Spatial Database. This data management structure eliminates data redundancy and allows changes to the database to be efficiently tracked. The data model supports real-world objects defined by a combination of descriptive and spatial characteristics. This now seamless data can be maintained and certified through the CPD Source Editor application. Once validated it can then be published to the Web GIS - Spatial Fusion Enterprise for Internet or Intranet-based access and decision-making. Spatial Fusion

Enterprise is configurable, allowing different user groups to interact with the information that is pertinent to them.

Desktop Solutions

Smaller municipalities may not require an enterprise approach, therefore a combination of desktop and Web-based GIS can provide new ways of offering services and allow more efficient Corporate decision-making.

Vector and raster map layers relating to departmental activities can be created and maintained in CARIS Carta. Attributes stored in ODBC databases can be linked to add further value to your spatial information. This geospatial information can be passed to Spatial Fusion Enterprise and made accessible over the Internet or Intranet with user-configurable clients allowing different levels of interaction.

Hosted Environments

Let CARIS host your Municipal Geospatial Solution. Our dedicated Application Service Provider (ASP) team will maintain your Web-based GIS solution at our facilities and deliver it to you over a network, we will ensure your solution is always operational and that the information being accessed by your internal and external users is current and accurate. This is achieved through a robust update schedule undertaken by our experienced GIS technicians.



The Benefit of Sharing Municipal Information

An example of how your corporation can benefit from access to centralized information could be as follows:

Public Works identifies street maintenance in a specific location for many weeks. As a result, Transit reroutes their bus that needs access to that street. Customers can see that the transit route has been amended for the period of the maintenance. Police and Fire response are notified not to utilize that area in case of emergency. Corporate Communications posts a media release regarding the accessibility of the street for the duration. The media self-serves this information for their daily news. Roads and Streets take advantage of the downtime to maintain their lights. External customers view the maintenance area and see some possible options for rerouting their daily travel to work. After maintenance is complete, Treasury can see the actual maintenance cost and how that compares with expected project cost and cash flow.

CARIS Municipal Geospatial Solutions | Product Overview

CARIS

Carta

- Multi-format base mapping including BSB, HCRF, GeoTIFF, MrSID®, JPEG 2000, TFW, IGA, CARIS, Shapefile
- Thematic mapping
- Area and distance measurements
- Multimedia links
- Dynamically reproject data
- Multiple selection mechanisms including saved queries and tool tip
- Edit reprojected data and attributes in the raster format

CARIS

Core Production Database (CPD) and Source Editor

- Tools provided for creating, modifying and maintaining object oriented cadastral data models
- Support of raster backdrops that include GeoTIFF, TFW, IGA, BSB, HCRF and CRL formats
- Powerful editing tools for the creation and maintenance of land objects
- Tracking and viewing of data processing history
- Data tools that validate the geometry and associated attributes of land objects
- Certification of feature attributes and geometry
- Feature locking during edits
- Data publication to facilitate access via Internet map browsers

CARIS

Spatial Fusion Enterprise

- Support of a number of native formats including MID/MIF, Shapefiles, DXF, DWG, DGN, S-57, Oracle® Spatial, CARIS, TIFF/TFW, GeoTIFF, MrSID®, BSB, and ODBC compliant databases with geospatial point features
- Supports Open Geospatial Consortium, Inc.™ (OGC) WMS and WFS requirements
- Track usage and secure access to the system using usernames and passwords
- Restrict access by applying role based security to individual data layers
- Display points of interest in the Public Access Module along with any other base map data
- Load the Public Access Module in your language preference

Municipal Solutions Components



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