

Base Infrastructure Management Enhanced by Proven GeoMedia® Technology



THE CHALLENGE:

Like many organizations, Canada's Department of National Defence – Canadian Forces Base (CFB) Suffield recognized that to operate the base more efficiently, they needed to integrate vast amounts of information kept in numerous databases. The Construction and Engineering (CE) Branch is responsible for the upkeep and maintenance of all base infrastructure, as well as environmental management. Daily activities vary from repairing overhead doors on buildings, laying water pipes, determining cost information for foreign military forces, and performing environmental clean-ups. The base did not have the capability to share gathered data from these tasks between users, and consequently, the data existed as isolated "islands."

The CE Branch maintains the realty asset information data and work order costing data in separate client server application databases. In addition, personal databases are collected and maintained by each staff member to support their activities. These databases are in many electronic and paper formats, and information in these databases is often useful to other staff but is difficult to access. In some cases, staff members may not be aware of the existence of these personal data sets. Integrating these various databases into one seamless system enabled users to easily obtain the information they need from each department's database for enhanced decision making.

THE OBJECTIVES:

- Integrate information kept in numerous databases seamlessly into one centralized system
- Make integrated information available to all staff members to promote efficient decision making

THE SOLUTION:

Using Intergraph's GeoMedia, GeoMedia Professional, and GeoMedia WebMap software, CFB Suffield effectively associated and integrated its isolated data using the Spatial Information Management System (SIMS). Today, a user can select a building on an intelligent, interactive map and see physical infrastructure data about that building in the asset information database. They can also see work order information, gas consumption data, and electrical plans from separate databases as well as an image of the building exterior. With all this

PROFILE

Name – Canadian Department of National Defence – Canadian Forces Base Suffield

Web site – www.forces.gc.ca

Canada's Department of National Defence identified the need to provide Canadian Forces Base (CFB) Suffield with technical assistance in the development of a base-wide geographic information system prototype for the Construction and Engineering (CE) Branch at Suffield. The Intergraph technology-based solution, Spatial Information Management System (SIMS), combines GeoMedia technology with existing CFB Suffield infrastructure data.

Size – 80,000 members in Regular and Primary Reserve Forces
– CFB employs approximately 20,000 public servants

KEY BENEFITS:

- Access to previously isolated departmental information – enterprisewide – from a multitude of databases
- Access to interactive maps that enable users to view physical infrastructure data about facilities on the base
- Ability to modify data without changing the master database

PRODUCTS USED/SERVICES PROVIDED:

- GeoMedia®
- GeoMedia Professional
- GeoMedia WebMap

information readily available, the user is better equipped to make area-specific decisions.

Not only did users gain the ability to view the data, they could make redline modifications to their copy of the data without modifying the database's master data. Maps developed by data mining could be printed or saved in a text document that was imported into reports or spreadsheets for further manipulation and presentation. GeoMedia technology provided excellent manipulation capabilities by offering fast and easy-to-use capture and editing tools. In addition, the technology allowed users to make live connections to infrastructure data housed in multiple databases simultaneously. The data's integrity was not compromised since GeoMedia's open architecture integrates data in various file formats in real time – no conversion necessary.

Moreover, SIMS granted those individuals responsible for the main-tenance of building equipment and services access to the attribute data associated with each infrastructure item. This allowed the data owners to update the data in a single repository, which was accessible to many.

CFB Suffield's geographic information system, SIMS, also progressed to implementation as a Web-based application using Intergraph technology. The online version continues to facilitate efficient decision making by providing access to base infra-structure data to any personnel with local area network access.

TO LEARN MORE

To learn more about Intergraph's solutions for defence organizations, contact sales@intergraph.ca or visit www.intergraph.ca.

ABOUT INTERGRAPH

Intergraph Corporation is the leading global provider of spatial information management (SIM) software. Security organizations, businesses and governments in more than 60 countries rely on the company's spatial technology and services to make better and faster operational decisions. Intergraph's customers organize vast amounts of complex data into understandable visual representations, creating intelligent

maps, managing assets, building and operating better plants and ships, and protecting critical infrastructure and millions of people around the world. Visit www.intergraph.ca for more information.

