Landmine application provides powerful resource for Canadian military

IntelliWhere OnDemand enables the Canadian Forces to complete landmine-clearing activities faster and more safely.

THE CHALLENGE:
The Department of National Defence and Canadian Forces (DND/CF) wanted to develop an effective landmine identification and location application that would provide combat engineers with the ability to record and accurately indicate positions of landmines, minefields, and obstacles requiring disposal or removal. Intergraph and GeoPATROL worked together to provide the solution.

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:
The successful implementation of IntelliWhere OnDemand enabled DND/CF to complete landmine-clearing activities faster and more safely because landmines, minefields, and obstacle-related information can be downloaded to PDAs for dissemination to all appropriate personnel. Map data or special magery can be displayed in either vector or raster format. Information about landmines and their attributes, pulled from the National Defence Mine/Countermine Information Centre (NDMIC) database, allows data such as name, shape, type, color, material, example photos, and location of previous detections to be included.

With IntelliWhere OnDemand software, personnel now have the ability to record a variety of data elements that will assist in safe removal of the mine. Information to indicate field extents, composition, and orientation is available, as well as images of individual mines to assist personnel with proper identification to enhance safe removal. Information is quickly and accurately updated on the user’s PDA, eliminating tedious manual input, and utilizing GPS access to accurately record the mine locations.

Field-captured information can be downloaded via cradle or wireless connection to desktop computer equipment for integration with the common relevant operating picture (CROP) for intelligence and future requirements. GeoPATROL, working with IntelliWhere

PROFILE
Name – Department of National Defence and Canadian Forces
Web site – www.forces.gc.ca
The Department of National Defence is one of the few Canadian national institutions that comes solely under the federal government, which is the only authority in matters of defence and protection of Canadian sovereignty. A symbol of pride and national identity, the Canadian Forces are present in every province and territory and in more than 3,000 communities across Canada. The Canadian Forces represent many values that unite Canadians, including the desire to help people in trouble at home and abroad; pride in peacekeeping and peace enforcement missions; and a determination to protect and fight for what Canadians believe in.

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

KEY BENEFITS:
- Current map data in the field for deployed personnel
- Ability to view and update intelligent maps
- Critical identification and safety information in an accelerated format
- Fast location of landmines and obstacles
- A familiar, stable, and friendly operating environment for the user

PRODUCTS USED / SERVICES PROVIDED:
- IntelliWhere™ OnDemand
OnDemand and certain PDAs, also supports voice- and image-capture technologies, planned to integrate into their solution in upcoming cycles.

THE FUTURE

The Department of National Defence continue be active users of Intergraph solutions across multiple departments. With active installations for security, mobile communications, and tracking systems in progress at multiple bases across Canada, the Department is dedicated to partnering with Intergraph in the near and distant future.

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.