

JMap® News

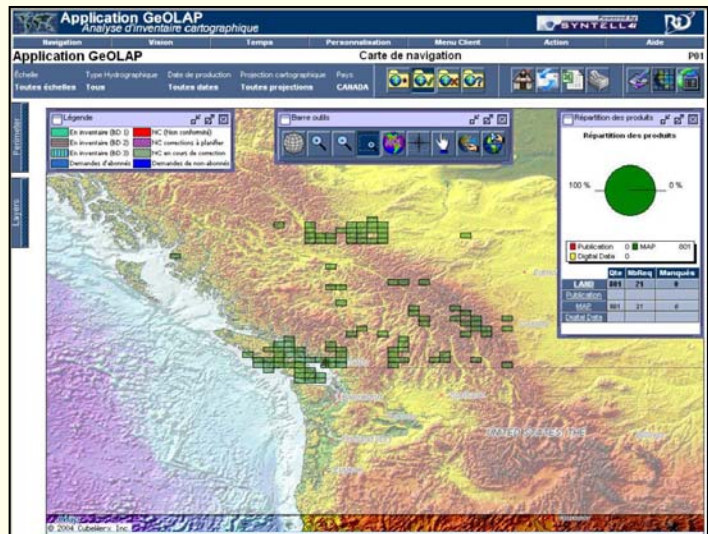
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The Department of National Defence combines JMap with Syntell's business intelligence solution

Syntell, a software publisher based in Quebec City, was commissioned by Valcartier's Defence Research and Development Canada, a research lab of Canada's Department of National Defence (DRDC – Valcartier) to build a system for inventory and production of cartographic data. The goal of this project is to provide decision tools by analysing the entire set of metadata for geospatial and cartographic data repositories. The system offers a complete and up-to-date inventory of these data warehouses, allows users to visualize all data requests per type of client, and presents business intelligence information to the managers of geospatial warehouses. This greatly improves the quality of service offered to users of the data and optimizes the data management and the use of resources for data production. The greatest strength of this system is the direct link between the decision support tools and the geospatial representation of information. The application allows decision makers to integrate GIS within a powerful business intelligence environment.

In the design phase of this project, DRDC – Valcartier envisioned a purely relational design, then a mostly geospatial one, but finally it realised that a multidimensional architecture was the only approach that could handle the complexity of the queries at hand. Syntell was thus put in charge of creating a system named GEOLAP (Geospatial OLAP) and based on its business intelligence technology Syntell 4i. Because of their strong and fruitful relationship with KHEOPS, RDDC – Valcartier and Syntell decided to build GEOLAP's mapping interface with JMap. This makes the system available on the Web, as an HTML-based application. JMap's highly flexible API, along with the feature-rich spatial analytical functionality made the integration of JMap within Syntell 4i a seamless effort.

The prototype that was first developed at DRDC – Valcartier is accessing the data sets managed by the *Mapping and Charting Establishment* (MCE), Canada's armed forces cartographic agency, as well as the data of *Centre d'Information Topographique - Sherbrooke* (CIT - S), Natural Resources Canada's agency for national cartographic production. ♦



A GEOLAP display for Western Canada



The Second JMap Conference

Our traditional Fall gathering of JMap users took place on November 17 and 18, when KHEOPS welcomed close to 100 people at the Montreal Science Centre for the Second JMap Conference. The new features of JMap 3.0 were unveiled, and a major part of the two days was dedicated to SOLAP, an innovative way of combining data mining and geospatial technologies through a user interface that combines dynamic mapping with charts, histogram, and tabular representations.

As a witness to the strength and flexibility of JMap, a prestigious group of presenters gave an overview of five projects that were completed in the past twelve months. Syntell presented its GEOLAP project at the Department of National Defence. The City of Montreal unveiled its traffic signage maintenance system SIGNALEC. Professor Charbonneau, of the University of Montreal, presented the Internet-based Land information System of the City of Hanoi, Vietnam, which was jointly developed by the City of Montreal, the University of Montreal, and KHEOPS. The Quebec Ministry of Transportation presented its brand new system for the analysis of the provincial road system, which is based on the JMap SOLAP Extension. Finally, CMTek, a Montreal firm, provided an overview of Smartrak, a system that measures cumulated audience for vehicle-bound advertising, using both GPS technology and the spatial capabilities of JMap. ♦

