

DMTI Spatial

DMTI Spatial breaks new trails for snowmobile riders with innovative mapping tools powered with Sun ONE Web Server software.



Company
DMTI Spatial

Vertical Market
Geography

Key Challenges

- Availability to handle up to seven thousand users per hour
- Support of large volumes of graphics intensive traffic
- 24/7 access to information and continuous upgrades
- High administration and training costs

Solution

- To leverage the immense cartographic database, DMTI Spatial implemented a Sun portal powered by Sun Enterprise Server, Solaris Operating System and Java Platform.

Why Sun

Sun Microsystems was the logical solution to drive the portal because of its proven solutions and high performing, highly scalable and flexible web server that delivers dynamic content to a web site and can handle large user volumes.

Business Results

- Ability to support dynamic mapping for up to seven thousand users per hour
- Performance improvements with high level of stability and availability to support large volumes of graphics-intensive traffic
- Immediate access to information and continuous upgrades to trail conditions
- Reduced administration costs and training for employees

DMTI Spatial successfully manages and creates access to more than 46,000 kilometers of Ontario trails to assist snowmobilers and increase tourism to Ontario's rural areas.

Taking full advantage of the chilly winter weather and bountiful snowfall, snowmobile riders from around the world flock to Ontario's snowmobile trails. This popular winter activity brings more than \$1 billion into the Canadian economy each year. With 46,000 kilometers of Ontario trails to choose from, snowmobile riders are never at a loss to find new and interesting places to ride. The challenge lies in keeping one's bearings in such a vast backwoods area.

Until recently, riders lacked a comprehensive reference map system, and were often limited to a mixed bag of paper maps of varying age and accuracy, with limited detail. Plotting routes across these paper maps was a time-consuming and often frustrating process. The Ontario Federation of Snowmobile Clubs (OFSC), a volunteer group composed of 260 local snowmobile clubs and their associations, recognized there was an urgent need to help their members and visiting tourists plan their trips and navigate the extensive trail system.

Into the fray came DMTI Spatial, using Sun technology. DMTI Spatial is Canada's premier Geographic Information Systems data vendor. The company creates comprehensive digital mapping data for Canada including street maps, routing data, topographic information and geocoding technology which is used in web applications and corporate and government information and marketing systems. DMTI Spatial understood the need for better access to high quality snowmobiling maps, and leveraged its immense cartographic database to create a publicly accessible portal for the OFSC, powered by the Sun Open Net Environment (Sun ONE) Web Server Enterprise Edition software.

Offering Web access to trail maps delivers significant benefits to the OFSC and trail users. The OFSC can continuously upgrade and enhance the Web-based service for snowmobilers, available through their website at <http://trailmaps.ofsc.on.ca>. Immediate access to more information was key to keeping snowmobilers informed, and in turn, increasing the number of tourists to Ontario's rural areas.

Sun ONE Web Server Enterprise Edition software was the logical solution to drive the portal, because it is a high performance, highly scalable and flexible web server that delivers dynamic content to a Web site and can handle high user volumes.

DMTI Spatial digitized all of the OFSC trail maps and stored them as files to be viewed through ESRI's ArcIMS, dynamic Internet mapping software. Hosted by DMTI Spatial and running

DMTI Spatial chose Sun as the foundation of its Web architecture.

on a Sun server, the mapping tool -accessed by users through the OFSC website- integrates search and navigation features with comprehensive trail and regional map data. DMTI Spatial has also integrated OFSC trail data with CanMap Streetfiles, and added topographical features such as points of interest, contour lines, hydro lines, rail lines, and detailed lakes, rivers and wetlands.

DMTI Spatial's mapping technology lets users zoom from a view of the entire province down to a single kilometer; plot out routes and automatically measure distances by clicking on the map with a measure tool over a selected route. Future functionality will integrate access to weather and real-time trail condition information on the map. Now weekend warriors have access to technology-powered trail information normally reserved for companies that can afford to invest in expensive mapping system tools.

The ability to support dynamic mapping for up to seven thousand users per hour requires significant back-end processing power

and a powerful, stable and scaleable Web platform. DMTI Spatial and OFSC knew their sites would gain massive amounts of traffic, and turned to Sun Microsystems to deliver the necessary solution. DMTI Spatial chose Sun as the foundation of its Web architecture. The Sun ONE Web Server Enterprise Edition software is deployed on the Sun Enterprise[™] 420R server, running the Solaris[™] 8 Operating Environment. Additionally, the combination of a Sun Enterprise 420R server and an Oracle database delivers a high level of stability and availability, essential for the large volume of graphics-intensive traffic.

The Sun ONE WebServer software supports an easy-to-use interface that staff employees can use to manage the trail and update conditions. This simplicity has ensured that the OFSC site is kept current.

Next winter, avid snowmobiling fans from around the world can log on to plan exciting new routes through Ontario's wilderness. The OFSC has leveraged mapping technology from DMTI Spatial, Sun's server technology and Sun

Sun Technology

Hardware:

- Sun Enterprise™ 420R Server

Software:

- Solaris™ 8 Operating System
- Sun ONE Web Server Enterprise Edition
- Java™ Platform

Third Party Software:

- Oracle
- ESRI ArcIMS
- ESRI ArcSDE

Get the details.

For more information on the DMTI Spatial, visit www.dmtispatial.com For more information on Sun products, please visit sun.ca

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