

Environment Canada Replaces Legato Networker and Veritas Backup Exec — Chooses CommVault Galaxy for Data Protection and Exchange Migration Assistance

QUICK FACTS

Industry/Solution:

- National Government Agency, Environment Conservation

Platform/File System:

- Microsoft Windows 2000
- HP-UX
- Linux

Applications:

- Microsoft Exchange 5.5/2000
- Microsoft SQL Server
- Oracle

Partner Hardware:

- EMC CLARiiON FC4700
- StorageTek L80 SDLT Tape Drives

Challenges:

- Environment Canada (EC) was working on enhancing the capacity and reliability of their nation-wide e-mail system.
- EC wanted to find a data management and protection solution that could help see them through the transition and protect the new system.
- Due to the size of the enterprise, remote capabilities were a must.
- Seamless integration with Wintel systems, HP-UX & Linux systems and SAN data storage architectures was key.

Solution:

- CommVault Galaxy Backup & Recovery

Benefits:

- Fast, scheduled restores — increased availability of the Exchange server
- Simplified operation/automation — help to lower IT administration overhead and allows IT staff to focus their efforts elsewhere
- Seamless Windows and UNIX enterprise data management and protection

Customer Profile

Environment Canada is mandated to preserve and enhance the quality of Canada's natural environment. To boost the capacity and reliability of its email systems nation-wide, EC installed EMC CLARiiON™ SANs, and is upgrading to Exchange2000™. To safeguard their data before, during, and after the migration, the Quebec region selected CommVault® Galaxy™.

Background

Environment Canada's vision is a Canada where people make responsible decisions about the environment, sustaining it for the benefit of present and future generations.

EC recently installed Intel-based servers with EMC CLARiiON Storage at multiple sites nation-wide. The CLARiiON FC4700s will provide SAN-based storage for Windows2000 files and Exchange2000 information stores. Along with StorageTek L80 SDLT tape drives, EC's Quebec region acquired CommVault Galaxy to manage the Exchange data associated with the SAN-based systems.

According to Roger Bouffard, Manager of Regional Information Technology, "What originally got our interest in CommVault was how well it integrates with Exchange. We liked Galaxy's ability to retrieve a single email from a backup. There is no other backup solution that allows you to do that. And Galaxy supported the SAN and tape solutions we wanted to use."

The Pain

The reliability of EC's Exchange systems hadn't been satisfactory for some time. When an Exchange database in one of EC's major offices crashed, it took several days to restore it. Critical emails were lost in the process. During extended email outages, work on important projects slowed considerably. Nation-wide upgrades to SAN-based email

systems, accompanied by faster, more reliable backup solutions, were seen as the solution.

Data Management Challenges

Environment Canada's Quebec region utilizes a variety of computing platforms including Windows, HP-UX, and Linux. Oracle is run under both HP-UX and Windows. SQL databases are also in use.

Using dissimilar products for managing their data resulted in steeper learning curves, higher administrative and management costs, and a higher Total Cost of Ownership (TCO).

Says Bouffard, "Galaxy's technology allowed us to consolidate our people since backup for the entire region can be controlled from a single site."

The Galaxy Solution

To accompany the tape libraries, CommVault Galaxy offered Environment Canada a data management and protection solution whose benefits extend beyond normal backup and restore. Galaxy offered EC:

- Integrated support for all of the computing platforms in use, whether Microsoft or UNIX-based.
- Robust support for SAN/NAS systems
- The ability for backups to be remotely managed
- Exchange 5.5 Migration Capabilities

Integrated Support

CommVault Galaxy fully supports mixed enterprises utilizing both UNIX and Microsoft products. Unlike competing vendors, who offer several tools that have been "glued" together to support multiple platforms, Galaxy is a single product, architected to support multiple platforms by way of intelligent data

agents. EC will initially utilize iDataAgents for Windows2000, Exchange5.5/2000, SQL7/2000, HP/UX and Oracle 8i on both Windows and HP platforms.

SAN Support

The EMC CLARiiON FC4700s selected by EC are a high availability storage system, configured as fibre-channel SAN. CommVault and EMC have performed extensive testing to certify that the Galaxy and CLARiiON products are fully compatible.

Remote Control — and the Dome

EC's Quebec Region has major sites in Saint-Laurent, downtown Montreal, and Quebec City, as well as an office in Rimouski. Admins in St Laurent will remotely manage the backups of servers in all four offices, as well as a server located at the Biosphère, a dome that served as the US pavilion at the 1967 Montreal World Fair (Expo 67).

Galaxy's CommServe provides EC admins with a single unified, web-based interface. This allows them to define storage policies for data stored on NAS, SAN and LAN systems throughout the region. By installing a MediaAgent, backups to a tape drive attached to the server in EC's Rimouski office can be administered locally but controlled and monitored by the St. Laurent CommServe.

Exchange 5.5 Migration

Galaxy will assist EC in migrating their email from Exchange 5.5 to Exchange 2000. Galaxy allows data backed up from 5.5 to be restored into Exchange2000. User files, including Word documents, spreadsheets, created on EC's NT4 systems will likewise be backed up using Galaxy, and restored onto the new systems running Windows2000.

Data Protection on into the Future

Once email is fully migrated to Exchange2000 and the SANs, EC may implement Snapshot technologies offered by EMC. These are fully supported by CommVault for rapid, serverless backup of Exchange information stores. Snapshot technology reduces the load on a Exchange server when performing backups during normal working hours.

According to Bouffard, "Accomplishing EC's task involves managing a lot of information. Our website provides information to consumers and industry. The Government Online initiative means EC will be generating and processing even more online data in the near future. We needed a powerful, super-reliable data management system to go with our SANs, and make the data migration task easier. We selected CommVault Galaxy and have been quite pleased."

www.commvault.com | 888.746.3849 | E-mail: info@commvault.com

CommVault Worldwide Headquarters • 2 Crescent Place • Oceanport, NJ 07757 • 732-870-4000 • Fax: 732-870-4525
Regional Offices: United States • Europe • Middle East & Africa • Asia-Pacific • Mexico & Latin America • Canada • India • Oceania

