



Case Study:



## Meeting Database Needs in the Technical Marketplace

### Overview

HP is a technology solutions provider to consumers, businesses and institutions globally. The company's offerings span IT infrastructure, personal computing and access devices, global services and imaging and printing. For the four fiscal quarters ended Oct. 31, 2004, HP revenue totaled \$79.9 billion. More information about HP (NYSE, Nasdaq: HPQ) is available at [www.hp.com](http://www.hp.com).

One of HP's unique products is HP OpenView Storage Data Protector 5.5. Data Protector protects business-critical information from any risk of loss and provides industry-leading instant recovery capabilities, based on mirroring and snapshot technologies, which uses a disk as a recovery media rather than a tape. More information about HP data protection software offerings is available at <http://www.hp.com/go/dataprotector>.



HP OpenView Storage Data Protector is software that manages backup and recovery from both disks

and tapes, delivering maximum data protection while providing continuous 24x7 business operations. The software is designed to simplify and to centralize backup and recovery operations by integrating a variety of techniques to eliminate backup windows. These range from on-line backup, open file backup, and instant recovery or zero-downtime backups. Its proven industry-leading instant recovery features and several other

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integrated disaster recovery alternatives meet the demands of the most complex enterprises so that they can recover critical data within minutes.

Data Protector simplifies the use of complex backup and recovery procedures with the fastest installation, automated routine tasks, and easy-to-use features. The ideal solution to reduce IT costs and complexity while remaining reliable and scalable to grow from single server environments to the largest distributed enterprise infrastructures, providing broad compatibility of operating systems, applications, drives, libraries, and disk arrays.

To provide fast file catalog browsing, tape media and disk volume management, HP needed a database that provided the highest performance, multiple platform support, scalability, reliability, a small footprint, fully automated maintenance, simple installation, on-line backup, and optional transaction logging. Birdstep Technology's RDM Server (Velocis) beat out other database competitors to win HP's approval. “RDM Server had the highest performance of all databases we

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**Birdstep Technology**

[www.birdstep.com](http://www.birdstep.com)

tested for our usage pattern at the time of selection,” said HP Product Marketing Manager of data protection software Andreas Schwegmann.

### The Challenge

HP Data Protector is fully integrated into a customer’s backend server across multiple operating systems. It scales from small workgroups to multisite, heterogeneous SAN and NAS environments with thousands of servers. Data Protector needed a database to match its customers’ needs while maintaining HP’s goal of a “zero-downtime backup” system.

In choosing a database for Data Protector, HP’s challenge was not only finding a database that was portable and scalable, but also one that could handle the demands of HP Data Protector. Since Data Protector integrates at the API level to both selected application interfaces as well as mirroring and snapshot software, it detects and adapts to changes in the database or storage configurations. This guarantees a reliable backup definition every time and eliminates the maintenance headaches as well as the requirement for manual intervention associated with scripted zero-downtime approaches.

### The Solution

Birdstep RDM Server provided the solution. RDM Server’s scalability has proven to be a huge asset to HP. The embedded database is capable of continuing to meet growing needs and still perform at top



speed; meeting HP’s requirement for high performance and scalability.

RDM Server is built to handle multiple platforms with ease, which made it a perfect fit for Data Protector. Using Birdstep RDM Server, HP could be sure that Birdstep’s database application would handle heavy peak user loads and transaction rates. Plus, with Birdstep RDM Server’s automatic data recovery system, data integrity is assured.

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“One of the great features that RDM Server provides is that it is transparent to our end-users,” commented Schwegmann. “Since Birdstep’s database management tools are embedded within HP’s application a database administrator is not needed and end-users are shielded from the database level of operation.”

### The Conclusion

RDM Server has continued to find favor with HP due to its high performance, multi-platform coverage, simplicity, and scalability. HP continues to meet its customers’ need to protect business critical applications and to minimize information recovery time. Its customers’ are pleased with Data Protector due to the storage disk-based instant recovery, increased infrastructure efficiency and increased scalability. HP OpenView Storage Data Protector and Birdstep RDM Server continue to make a winning combination.

### About Birdstep Technology

Birdstep Technology was founded in Oslo, Norway in 1996 and is traded on the Norwegian OTC market under ticker “BIRD”. The company has approximately 80 employees in Oslo and Seattle. Birdstep’s small footprint, high performance database technologies combined with its wireless roaming and access software enables companies to build innovative solutions for embedded systems and the Mobile Internet. Birdstep makes your information accessible anytime, anywhere, on any device and on any infrastructure. For more information, visit [www.birdstep.com](http://www.birdstep.com).