

# Ordnance Survey

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## THE SUCCESS

Ordnance Survey, Great Britain's national mapping agency, is using VERITAS solutions to ensure its digital data and mapping solutions are continually available to customers in a highly efficient, scalable manner. This includes the Ordnance Survey's definitive, large-scale digital map of the U.K., OS MasterMap®— one of the world's largest Oracle geospatial databases.

Ordnance Survey has been using VERITAS Foundation Suite, including VERITAS Volume Manager and VERITAS File System, for several years in its Solaris environment to optimize systems performance, availability, and manageability. "With VERITAS Volume Manager we can apply policies to configure and share storage without worrying about the limitations of the disk storage. We can also virtualize storage devices and manage them as local pools of storage," says David Gaen, Senior Consultant at Ordnance Survey. "With VERITAS File System we are benefiting from a quick, powerful recovery journaling file system."

Besides providing efficient high availability, VERITAS NetBackup is also helping to optimize resources allocation. "We are benefiting from greater density on the tapes," Gaen says. "Previously, when the backup was complete, the tapes would be taken off-site, irrespective of whether they were full or not. Now, using NetBackup, the tapes are always full. We estimate that the price per megabyte of a full LTO tape is up to seven times less than the previous DLT tape."

With VERITAS delivering a high-availability, easy-to-manage storage environment, Ordnance Survey is looking ahead to enhancing its storage capability. "Based on the highly successful VERITAS storage roadmap Ordnance Survey has developed so far, we will continue to choose them as our storage management provider," says Dave Lipsey, Information Systems, Infrastructure, and Services Manager at Ordnance Survey.

## THE SITUATION

Countless business decisions, strategies, and public services are underpinned by accurate, reliable Ordnance Survey location information. The emergency services use it to locate incidents; local authorities use it to plan and execute regional programs; marketing companies use it for address referencing, and the data is sold to third parties such as the U.K. Automobile Association and streetmap.co.uk. Because an outage for any one of these diverse customers would have a critical impact on its ability to operate, uninterrupted information availability is of paramount importance.

Ordnance Survey also demands a seamlessly scalable storage environment. It has hundreds of surveyors in the field working to extend the breadth and depth of Ordnance Survey's mapping solutions, and as a result the demand for storage is growing fast. New products, such as Ordnance Survey's OS MasterMap, and a spiraling messaging system, fuel this burgeoning demand for storage.

**"With VERITAS NetBackup we benefit from rock-solid backup. If we do have any problems, we can take the system back instantly to any point in time."**

—Dave Lipsey, Information Systems, Infrastructure, and Services Manager, Ordnance Survey



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Ordnance Survey, the national mapping agency of Great Britain, produces computer data products and paper maps.

### THE SOLUTION

For Ordnance Survey, high availability is the cornerstone of successful service delivery. “VERITAS NetBackup and VERITAS Foundation Suite play a crucial role in ensuring the broad-based, mixed environment upon which our mapping services rely is always online, easy to control, and cost-effective to manage,” says Lipsey.

This enterprise environment spans more than 210 Sun, HP, and VAX servers running Solaris, Tru64, and VMS, connected by fiber channel and SCSI to 38 TB of storage, which is backed up to three libraries with 24 LTO drives. Corporate Messaging comprises up to 100 Windows 2000 Compaq and Dell servers.

VERITAS NetBackup provides complete data protection for the Ordnance Survey’s most critical enterprise environment information. It helps the organization manage all aspects associated with backup and recovery, and has led to a standardization of policies across the business.

“We use VERITAS NetBackup to conduct incremental backups of all systems every day and full weekly backups,” says Gaen. “The centralized, policy-based backup allows our administrators to manage a greater number of servers from a single source and to automate many business processes.”

The solution is completed by VERITAS Extended Support services. These provide Ordnance Survey with the confidence that no matter what problem occurs, or no matter when they have a query, VERITAS Support will be there to resolve it.

### Business Goals

- Ensure high availability for critical applications
- Reduce cost of storage and improve resource utilization
- Streamline labor-intensive backup administration processes

### Environment

- Servers: 120 x Solaris (E250 up to F6800), 43 HPQ UNIX, 50 HPQ VAX, 100 Compaq & Dell
- Operating systems: Solaris, Tru64, VMS
- Disk and tape storage systems

### VERITAS Solutions

- VERITAS NetBackup™ DataCenter
- VERITAS Foundation Suite™
- VERITAS Database Edition™ for Oracle
- VERITAS Backup Exec™
- VERITAS Extended Support

### Business Benefits

- Minimizes server and application downtime
- Reduces price per Mb of tape by a factor of 7
- Streamlines management of Oracle geospatial databases

