

VERITAS NetBackup™ 6.0 – Database and Application Protection

INNOVATIVE DATA PROTECTION

When it comes to database and application recovery, VERITAS Software has a clear goal in mind – simplify the complexity of database backup while increasing availability.

VERITAS NetBackup™ software provides high performance, online backup and recovery of business critical databases and applications. Organizations can centrally manage all aspects of backup and recovery operations from intuitive, graphical user interfaces, allowing for consistent data protection policies to be established across the enterprise. No other vendor today provides the same breadth of solutions, across leading platforms, to address the complex challenges of database and application backup and recovery.

DATABASE PROTECTION

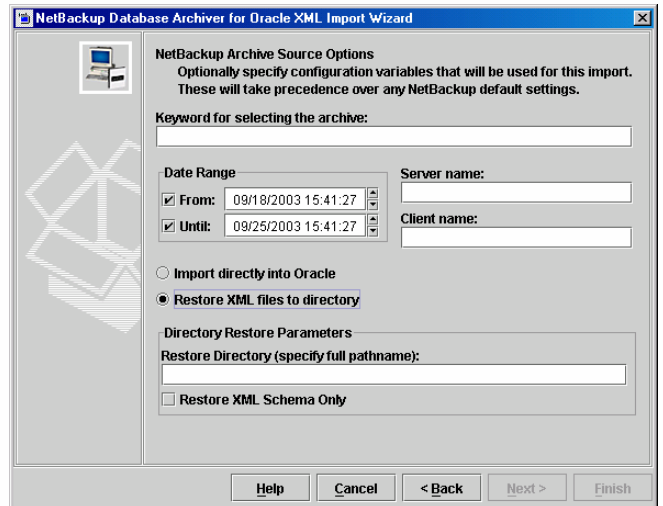
ORACLE

VERITAS NetBackup for Oracle integrates Oracle Recovery Manager (RMAN) to deliver online high performance backup and recovery for Oracle environments, including Oracle Real Application Clusters (RAC). While VERITAS Software continues to demonstrate performance leadership in this space – VERITAS NetBackup software was the first to eclipse both the 1 terabyte per hour and 2 terabyte per hour Oracle backup barriers – we also continue to help redefine Oracle backup and recovery.

Today, VERITAS Software offers unprecedented techniques for protecting Oracle databases, from integrated archiving capabilities to Instant Recovery.

Product Highlights

- **Backup and Restore Flexibility** – Backup and restore Oracle at the database, tablespace and data file level. Archived redo logs also protected.
- **XML Archiving** – Integrated capability enables the archiving of Oracle data in XML format for long-term storage.
- **Wizard-Based Configuration** – Integrated wizard on UNIX, Windows and Linux simplifies configuring Oracle backup or recovery by automating the creation of RMAN scripts.



VERITAS NetBackup for Oracle offers integrated XML archiving to help address long-term Oracle data retention

MICROSOFT SQL SERVER

VERITAS NetBackup™ for Microsoft SQL Server delivers comprehensive data protection for SQL Server and SQL Server databases. VERITAS provides the performance and flexibility required for effective backup and recovery operations within large SQL Server environments.

Product Highlights

- **Flexible Data Protection Options** – Backup and recovery of databases, differentials, files, filegroups, and transaction logs. Read-only data backed up less frequently.
- **Superior Recovery** – Faster recovery as only damaged pages are recovered. Verify only restores can be used to verify SQL contents of a backup image without actually restoring the data.
- **Point-in-Time Recovery** – Recovers SQL databases to the exact point in time or transaction log mark by rolling forward only the transactions that occurred prior to a user-specified date and time.
- **Copy-Only Backups** – Create an on the fly full backup copy without interfering with an established backup sequence.
- **Granular Database View** – Display of database object properties delivers backup and recovery flexibility.

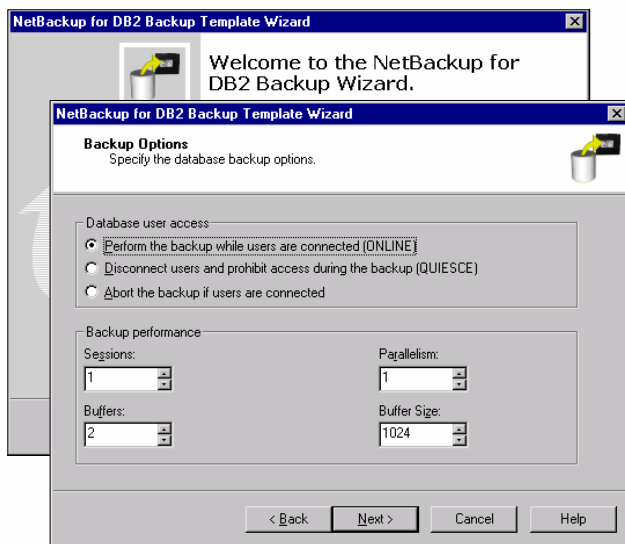
IBM DB2 UDB UNIVERSAL DATABASE

NetBackup software works with DB2's native backup and recovery utilities to protect DB2 databases and archive logs. Backup and recovery operations may be performed either locally or remotely, and organizations can centrally manage all aspects of backup and recovery for database and non-database files from the intuitive NetBackup graphical user interface (GUI).

Today, VERITAS Software offers unprecedented techniques for protecting DB2 databases, from integrated block-level backup and recovery capabilities to Instant Recovery.

Product Highlights

- **Flexible Backup Options** – Supports online Full or Incremental database backup and backup of archive logs via the user exit program.
- **Scheduling Facilities** – Leverage the NetBackup scheduler for automated, unattended DB2 backups.
- **Wizard-Based Configuration** – Step-by-step configuration of DB2 backup and recovery via an intuitive, graphical, wizard-based interface.



VERITAS NetBackup for DB2 offers an integrated wizard to help simplify configuring DB2 backup and recovery

IBM INFORMIX DYNAMIC SERVER

VERITAS NetBackup software provides complete data protection for IBM Informix Dynamic Server and IBM Informix Extended Parallel Server running on many of today's popular operating platforms. NetBackup software, in conjunction with the Informix ON-Bar utility, provides a methodology to help ensure that business-critical Informix applications are safely backed up and can be recovered quickly.

Product Highlights

- **Continuous Logical Log Backup** – Configure automated logical log backup to help prevent logical logs from filling up and locking up the database server.
- **Flexible Backup Options** – Backup and restore at the dbspace, blob space, and logical log file level.
- **Parallel Backup and Restore** – Enables administrator to run more than one tape device at a time for a single Informix backup or restore, helping reduce the time necessary to complete the operation.

SYBASE

VERITAS NetBackup for Sybase offers high performance backup and recovery for Sybase Adaptive Server Enterprise (ASE) databases on leading UNIX and Windows platforms.

Product Highlights

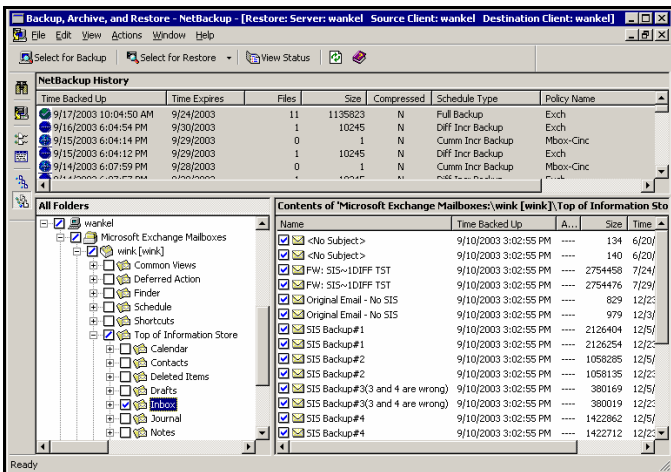
- **Powerful Scheduling** – Schedule automatic, unattended full or incremental backups.
- **Parallel Backup & Recovery** – VERITAS NetBackup for Sybase supports the parallel backup and restore capabilities of the Sybase ASE Backup Server. This permits the user to run more than one tape device at a time for a single Sybase ASE backup or restore, helping reduce the time necessary to complete the operation.
- **Track Backup History** – Detailed views of backup history simplify restores, as backups of databases and transaction logs are easier to track.

APPLICATION PROTECTION MICROSOFT EXCHANGE SERVER

VERITAS Software recognizes the need for non-disruptive mechanisms to protect Exchange data, along with all data in the enterprise. VERITAS NetBackup for Microsoft Exchange helps provide the performance and flexibility required for effective backup and recovery operations within large Exchange environments.

Product Highlights

- **Online Backup** – Complete, non-disruptive protection of Exchange database and mailbox components, including incremental mailbox backup.
- **Flexible Restore Options** – Rapid, granular recovery of databases and mailboxes, including support for performing individual message restores.
- **Advanced Exchange Integration** – Leverage advanced features, including Single Instance Store (SIS), global exclusion, and storage group multiplexing. Volume Shadow Copy Services (VSS) integration and off-host backups are available when combined with the VERITAS NetBackup™ Advanced Client.



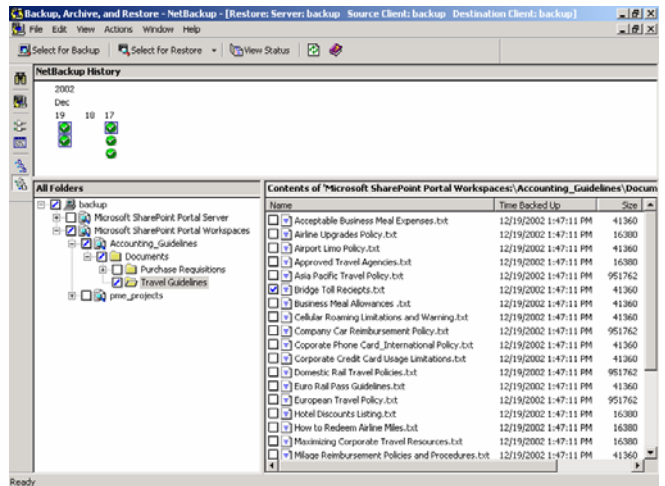
VERITAS NetBackup software provides a broad glimpse into Exchange backup history, helping administrators more easily perform database, mailbox, or message recovery

MICROSOFT SHAREPOINT PORTAL SERVER

VERITAS NetBackup for SharePoint Portal Server extends the capabilities of VERITAS NetBackup software to include online backups and restores of a Microsoft SharePoint Portal Server installation.

Product Highlights

- **Flexible Restore Options** – Restores can be directed to the original location or to a different path.
- **Robust Data Integrity** – SPS data protection includes all portal content, including web store data, Microsoft Search Service system resources, SPS configuration information, the applications folder, and any content sources that reference the local file system. Protects Profile, Search, and Index databases.
- **Easy to Use** – One console can be used to protect SharePoint and Windows Services. Includes server farm configuration and single sign on for databases.
- **Automated Backup** – Schedules can be set for automatic, unattended backups for local systems or for remote client systems over the network.
- **Run-Time Detection** – Dynamic discovery of new databases and SharePoint hosts allows for automatic SharePoint data protection.



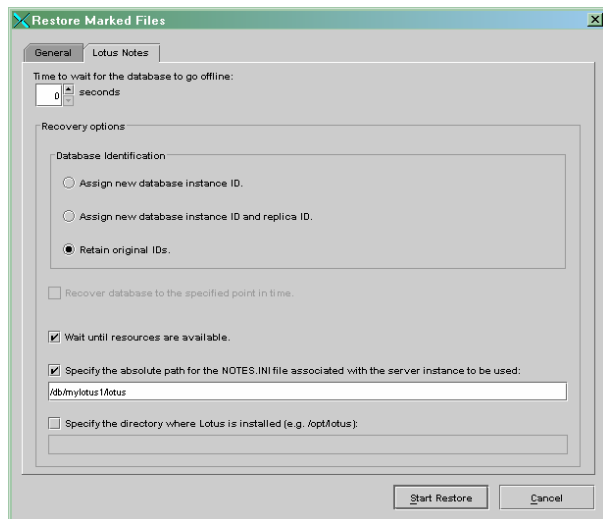
The NetBackup for Microsoft SharePoint Portal Server recovery GUI presents an intuitive view of backup history, allowing point-and-click restores of the portal or workspaces.

IBM LOTUS NOTES & DOMINO SERVER

VERITAS Software offers high performance backup and recovery for Lotus Notes and Domino Server with VERITAS NetBackup for Lotus Notes. Administrators may leverage intuitive GUIs to help set consistent backup policies across the enterprise and to quickly identify critical Lotus files or databases when they need to be restored.

Product Highlights

- **Backup Method Flexibility** – Support for scheduled, unattended backups, manual backups, and user backups, which allow end users to back up and restore pre-specified Lotus data.
- **Alternate Restoration Techniques** – With backups not tied to a specific backup server, NetBackup software may restore Lotus data either on an alternate system or in an alternate directory.
- **Advanced Lotus Integration** – Support for partitioned Lotus servers and Lotus clustering.



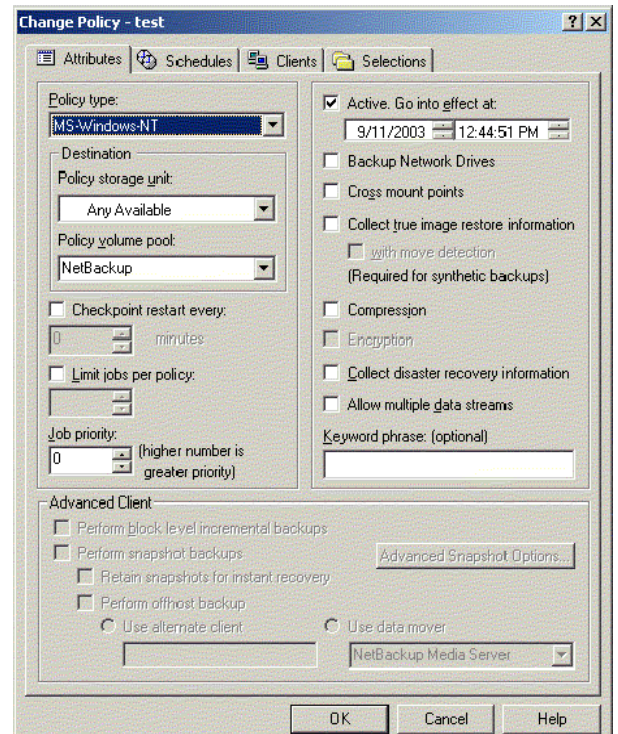
VERITAS NetBackup for Lotus Notes provides file level restore flexibility.

SAP

The integration of VERITAS NetBackup for SAP NetWeaver with the SAPDBA administrative interface, along with the "BR" backup and recovery commands, provides a solid, SAP NetWeaver-centric data-protection solution for customer-specific configurations on the UNIX, Windows and Linux platforms.

Product Highlights

- **Centralized Backup Operations** – Centralized management dramatically reduces the cost of backing up large SAP environments.
- **Database Support** – Support for Oracle and MaxDB (i.e. SAP DB) databases in SAP NetWeaver environments.
- **Oracle RMAN Support** – Leverage Oracle RMAN benefits when protecting SAP NetWeaver using Oracle.
- **Interface Integration** – The NetBackup integration with SAPDBA leverages existing knowledge of the SAPDBA GUI to lower training costs. NetBackup software also supports the full set of SAP BACKINT "BR" commands.
- **Flexible Implementation** – Perform database operations through NetBackup software, or use the SAP Tools (SAPDBA interface) independently of NetBackup software.



The Change Policy screen displays an easy-to-understand interface for all NetBackup for SAP policy selections and functionality.

ADVANCED DATA PROTECTION

The NetBackup Advanced Client enables low impact backup and recovery for databases and applications. To upgrade the performance often associated with traditional database and application protection, NetBackup Advanced Client software consolidates a variety of snapshot-based technologies into a single, easy to use backup and recovery solution.

Advanced Client Feature	Key Benefits	Database / Application
Array and Software Snapshot Integration	<ul style="list-style-type: none"> Support for a variety of array and software snapshots provides a base for all Advanced Client solutions 	<ul style="list-style-type: none"> Oracle, SQL, DB2
Off-host Backup	<ul style="list-style-type: none"> Backup overhead shifts off critical systems to an alternate data mover 	<ul style="list-style-type: none"> Oracle, SQL, DB2, Exchange
Block-Level Incremental Backup and Recovery	<ul style="list-style-type: none"> Less data leads to high performance data protection 	<ul style="list-style-type: none"> Oracle, DB2
Instant Recovery	<ul style="list-style-type: none"> Disk-Based backup and recovery without data movement 	<ul style="list-style-type: none"> Oracle, SQL, DB2

APPLICATION SUPPORT

Database or Application	VERITAS NetBackup Agent Support ¹							Complementary Solutions ¹	
	HP-UX	HP Tru64	IBM AIX	Linux	Microsoft Windows	SGI IRIX	Sun Solaris	NetBackup Encryption	NetBackup Advanced Client
IBM DB2	✓		✓	✓	✓		✓	✓	✓
IBM Informix	✓	✓	✓			✓	✓	✓	
IBM Lotus Notes			✓	✓	✓		✓	✓	
Microsoft Exchange Server					✓			✓	✓
Microsoft SharePoint Portal Server					✓			✓	
Microsoft SQL Server					✓			✓	✓
Oracle	✓	✓	✓	✓	✓	✓	✓	✓	✓
SAP	✓	✓	✓	✓	✓		✓	✓	
Sybase	✓	✓	✓		✓	✓	✓	✓	

Note 1: For the latest software and hardware compatibility information, please see the Compatibility Lists at <http://www.support.veritas.com> or contact your VERITAS sales representative or authorized VERITAS reseller.

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