Symantec NetBackup™ 7.5 Clients and Agents
Complete protection for your information-driven enterprise

Data Sheet: Data Protection

**Overview**
Symantec NetBackup™ provides a simple yet comprehensive selection of innovative clients and agents to optimize the performance and efficiency of your backup and recovery environment. These provide high-performance online backup and recovery of business-critical databases and applications, enable backup and recovery operations over storage networks, and deliver high levels of data security and complete system-level recovery. Depending on your needs, NetBackup has flexible client options to fit your environment and your budget.

- **Centralized management for multiple databases and applications**—Reduces the complexity of backing up large environments.
- **Optimization for high-performance SAN-based backups**—Simplifies how you manage and recover data for SAN-based backups.
- **Advanced virtual machine protection and recovery**—Reduces recovery and backup times as well as storage consumption with new NetBackup features.
- **Backup schedule and method flexibility**—Supports scheduled, unattended backups; manual backups; and user backups.

**NetBackup Standard Client**
The NetBackup Standard Client contains key features such as protection of POSIX-compliant file systems, deduplication, Bare Metal Restore™ and client encryption. It resides on the same server as the application, database, or files that are being protected, and sends data to a NetBackup server for protection or receives data during a recovery.

**Embedded deduplication**
Source and target-based deduplication are built right into NetBackup. NetBackup delivers deduplication everywhere, for remote sites or data centers, and is ideal for virtual environments.

- **Client deduplication**—Removes redundant data at the source, which reduces backup transfer, size, and time, compared to a traditional backup, freeing up more client resources for production services in physical and virtual environments.
- **Media server deduplication**—Is a scalable deduplication engine that can live in one or more NetBackup servers, reducing the size of backup images by up to 80 percent.

**Bare Metal Restore**
Integrated and included at no extra charge, Bare Metal Restore provides automated server recovery of physical or virtual machines (P2P, P2V, V2P, or V2V), including the ability to restore to a dissimilar server and/or dissimilar disk configuration. This feature boasts a complete system recovery time of approximately 15 minutes on Microsoft® Windows®, Linux®, and UNIX® platforms.

**Client encryption**
Data is encrypted at the source/client to provide a very high level of data security in transit over the network and on storage media. Client encryption is ideal for protecting smaller yet dedicated clients and databases. It supports a variety of encryption algorithms, including 128-bit and 256-bit encryption.

**NetBackup Enterprise Client**
The NetBackup Enterprise Client, which includes the features available in the Standard Client, combines all of the NetBackup advanced capabilities in one easy-to-use package, including Symantec™ Platform with V-Ray technology, providing visibility across virtual and physical environments.

**SAN media server**
The storage area network (SAN) media server is designed for customers who prefer to use their SAN for backup operations rather than their LAN. This feature enables LAN-free data protection with high-performance access to shared SAN resources.
SAN client
The SAN client offloads backup traffic from the LAN and allows for fast backups over the SAN at approximately 150 MB per second. The SAN client can send data to a variety of NetBackup disk options and lets you backup and restore to disk over the SAN. To optimize performance, data is sent to media servers via SCSI commands over the SAN rather than TCP/IP over the LAN.

Snapshot client
The snapshot client enables low-impact backup and recovery for databases and applications. By allowing the leveraging of a variety of software or hardware snapshot capabilities, this feature can greatly reduce the amount of data being transferred during backup and recovery, as well as dramatically improve backup performance and recovery time for mission-critical databases and applications.

Virtualization Protection
VMware vSphere
NetBackup provides V-Ray virtual machine (VM) protection using vStorage APIs for Data Protection. Advanced V-Ray protection is included with the NetBackup Enterprise Client and enables:
• Single-pass backup of VMware® images to deliver granular file-level or full image-level recovery, reducing both the time and cost of VMware data protection
• Through the VMware Intelligent Policy, automatic protection of new VMs and load-balancing of concurrent VM backups
• Complete application protection and recovery, including application-consistent backups with optional log truncation and granular recovery of databases and individual items
• Off-host backups, which can be three times faster and can have zero host impact, as opposed to in-the-guest backups
• The only instant recovery of files from block-level incremental backups (BLIBs)

Microsoft Hyper-V®
Reduce the performance impact of virtual machine (VM) backup and recovery using NetBackup. Automatically discover existing VMs as well as those not currently protected. The NetBackup Enterprise Client delivers even more benefits:
• Eliminates the impact of backup with off-host/server-less backup of individual VMs
• Protects VMs without using a client or agent inside the virtual machine
• Saves time and resources: get two types of recovery—VM- and file-level—from one backup operation, for Windows and Linux VMs
• Only NetBackup offers faster daily backups with incremental backups of entire VMs

Microsoft Application and Database Protection
Microsoft Active Directory®
For any enterprise, Microsoft Active Directory is integral in managing network services. Therefore, the comprehensive protection and quick recovery of Active Directory is critical.

Features and benefits
• Recovery of any Active Directory item—Granular recovery includes the ability to recover all items with full attributes (for example, user, server, printers) to satisfy both daily and disaster recovery (DR) requirements with one backup image.
• Elimination of Active Directory server reboot—Minimize downtime and keep the application up and running.
• Ease of use and control—Leverage Microsoft Visual SourceSafe (VSS) system state backup to ensure consistency when a backup is being made with Microsoft Exchange® Server.

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

**Features and benefits**

- **Online backup**—Complete, nondisruptive protection of the Exchange database and mailbox components, including mailbox-level backup
- **Flexible restore options**—Rapid, granular recovery of databases and mailboxes, including support for performing individual message restores
- **Elimination of MAPI backups**—Granular recovery of the full application and a single email with only one backup pass and one copy stored

**Microsoft Office SharePoint® Server**

**Features and benefits**

- **Ease of use**—One console can be used to protect SharePoint and Windows services; includes server farm configuration and single sign-on for databases.
- **Granular recovery**—Save time and storage by recovering SharePoint files, including different versions of a file, sites, sub-sites, and lists such as calendars and links.

**Microsoft SQL Server**

NetBackup for Microsoft SQL Server delivers comprehensive data protection for SQL Server and SQL Server databases.

**Features and benefits**

- **High-speed recovery**—Verify-only restores can be used to verify the SQL contents of a backup image without actually restoring the data.
- **Point-in-time recovery**—Recovering SQL databases to the exact point in time or transaction log mark by rolling forward only the transactions that occurred before a user-specified date and time.
- **Granular database view**—Display of database object properties provides backup and recovery flexibility.

**Enterprise Application and Database Protection**

**Oracle®**

The NetBackup Oracle Agent is tightly integrated with the Oracle Recovery Manager™ (RMAN) to deliver high-performance backup and recovery solutions. It supports Oracle Real Application Clusters (RAC), offers continuous data protection, and can clone Oracle databases from backup images.

**Features and benefits**

- **Online/Hot Oracle backups**—Keep the database online and increase reliability by eliminating manual processes and scripts.
- **RMAN integration**—Tightly integrated with the Oracle RMAN wizard to deliver high-performance backup and recovery.
- **Eliminate backup and recovery windows**—Using snapshots and continuous data protection with the NetBackup™ RealTime option.
- **Improved Oracle Deduplication**—Alternative backup methods which preserve the physical layout of the Oracle blocks enabling much higher deduplication rates.

**SAP**

The integration of NetBackup for SAP NetWeaver with the SAP DBA 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.

**Features and benefits**

- **Oracle RMAN support**—Leverage Oracle RMAN benefits when protecting SAP NetWeaver.
- **No backup window and instant recovery**—By using the NetBackup RealTime option, continuous data protection data can be recovered instantly and to any point in time.
- **Flexible implementation**—Perform database operations through NetBackup, or use the SAP tools (SAPDBA interface) independently.
Sybase®
NetBackup for Sybase offers high-performance backup and recovery for Sybase Adaptive Server® Enterprise (ASE) databases on leading UNIX and Windows platforms.

Features and benefits
- **Parallel backup and recovery**—Supports the parallel backup and restore capabilities of the Sybase ASE Backup Server. This permits you to run more than one tape device at a time for a single Sybase ASE backup or restore, helping to reduce the time necessary to complete the operation.
- **Track backup history**—Detailed views of backup history help to simplify restores because backups of databases and transaction logs are easier to track.

MySQL
NetBackup for MySQL, offered in partnership with Zmanda™, provides centralized backup and recovery of multiple MySQL databases/servers across Linux, Oracle Solaris, and Windows operating systems. Benefits include:
- Scheduled full, differential, and incremental backups of MySQL database
- Easy database recovery to a required point in time or to any particular database event
- Backup compression and encryption for improved data protection and security
- Extensive monitoring and reporting

PostgreSQL
NetBackup for PostgreSQL, offered in partnership with Zmanda, now provides live backup of PostgreSQL. PostgreSQL agent is integrated and certified with NetBackup 7.x using the XBSA API and supports backup of PostgreSQL versions 8.x and 9.x. This solution is fully integrated with the PostgreSQL write ahead log (WAL) to provide point-in-time recovery (PITR).

EMC Documentum
CYA HOTBackup™, offered in partnership with CYA, tightly integrates with NetBackup to deliver a comprehensive hot backup and recovery solution for EMC Documentum.

Features and benefits:
- **Online, hot backup of all EMC Documentum components**—Including the full text index, database, and storage area keep the system online and increase reliability by eliminating manual processes and scripts.
- **CYA SmartRecovery™**—Enables granular, hot recovery of full ECM objects including metadata and content.
- **Improve Recovery point objectives (RPO)**—Reduce data loss to within 15 minutes.

Teradata®
Teradata Extension for NetBackup integrates Teradata Database and NetBackup operations to provide a parallel-stream backup and recovery solution for Teradata Database Warehouse systems.

Features and benefits
- **Scalable data protection**—Across 100’s of nodes, 100’s of terabytes.
- **Quickly move data**—Between Teradata system and NetBackup infrastructure.
- **Simple DBA administration**—Integration with the Teradata GUI lets DBA easily schedule and manage NetBackup operations.
- **Tape vault management**—Enables parallel copy, inline copy, and site-to-site replication for disaster recovery.

IBM Application and Database Protection

IBM® DB2® UDB Universal Database
NetBackup works with IBM DB2 native backup and recovery utilities to protect DB2 databases and archive logs. NetBackup offers unprecedented techniques for protecting DB2 databases—from integrated block-level backup and recovery to instant recovery via the NetBackup Snapshot Client.

Features and benefits
- **Flexible backup options**—Full, incremental, and block-level backups as well as backup of archive logs via the user exit program.
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- **Wizard-based configuration**—Performs step-by-step configuration of DB2 backup and recovery via an intuitive, graphical, wizard-based interface.

**IBM Informix Dynamic Server**
NetBackup protects IBM Informix Dynamic Server and IBM Informix Extended Parallel Server running on many of today’s popular operating platforms. NetBackup, 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.

*Features and benefits*
- **Continuous logical log backup**—Configure automated logical log backup to help prevent logs from filling up and locking up the database server.
- **Flexible backup options**—Backup and restore at the dbspace, blobspace, and logical log file level.

**IBM Netezza**
NetBackup for IBM Netezza, offered in partnership with IBM, provides centralized backup and recovery of IBM Netezza appliance databases using the XBSA API.

*Features and benefits*
- **On-demand and scheduled backups**—Full, differential, and incremental backups of IBM Netezza databases.
- **Optimized backup**—Multi-stream database backup and automatic backup compression.
- **Simple backup management**—Easy database and table recovery with GUI based monitoring and reporting.

**IBM Lotus® Notes and Lotus Domino® server**
Symantec offers high-performance backup and recovery for Lotus Notes and Lotus Domino server. Administrators can 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.

*Features and benefits*
- **Alternate restoration techniques**—With backups not tied to a specific backup server, NetBackup can restore Lotus data either on an alternate system or in an alternate directory.
- **Advanced Lotus integration**—Support for partitioned Lotus servers and Lotus clustering.

**Symantec Enterprise Vault™**
NetBackup automates the protection and recovery of Enterprise Vault environments.

*Features and benefits*
- **Simplifies protection of Enterprise Vault servers**—Automatically discover the various servers and components within your Enterprise Vault environment that need protection, including partitions and their associated databases.
- **Leverages snapshot technology**—The backup of the snapshot is done quickly and efficiently, eliminating the need for manual scripts or the manipulation of registry settings.
- **Offers effective disaster recovery**—Centrally manage the disaster recovery process of the Enterprise Vault partitions and databases.
More Information

Visit our website
http://enterprise.symantec.com

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Call toll-free 1 (800) 745-6054

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About Symantec

Symantec is a global leader in providing security, storage, and systems management solutions to help consumers and organizations secure and manage their information-driven world. Our software and services protect against more risks at more points, more completely and efficiently, enabling confidence wherever information is used or stored. Headquartered in Mountain View, Calif., Symantec has operations in 40 countries. More information is available at www.symantec.com.

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