

## VERITAS NetBackup™ 6.0 Advanced Client

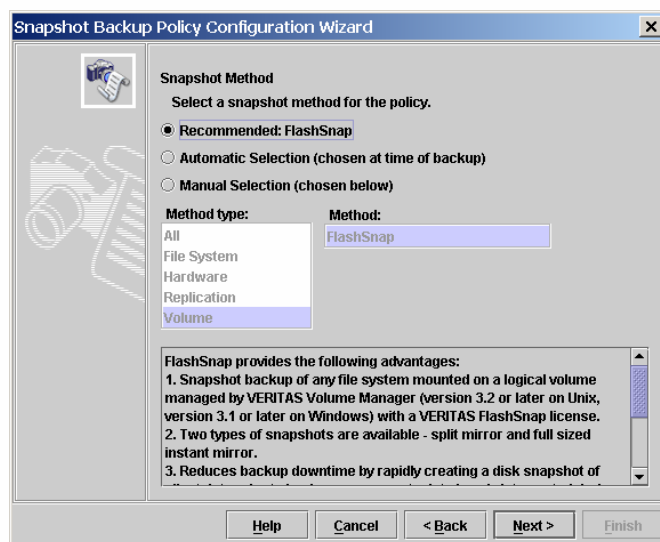
### INNOVATIVE DATA PROTECTION

Traditional backup and recovery techniques no longer meet the stringent business requirements that large IT shops demand today. Too often these techniques are too slow and create too much overhead on the critical systems being protected.

NetBackup Advanced Client software enables low impact backups and the ability to backup and restore data with unprecedented speed. To upgrade the performance often associated with traditional client protection, NetBackup Advanced Client software consolidates a variety of snapshot-based technologies into a single, easy to use backup and recovery solution.

#### Snapshot Data Protection

Delivering support for a number of hardware and software snapshot methods, each Advanced Client feature manipulates a snapshot to offer a different backup and restore level. Snapshots provide an instant point-in-time image of a client's data. NetBackup Advanced Client software features uniquely back up the data from the snapshot image, not directly from the client's primary data. This allows client operations and user access to continue without interruption during the backup. This capability can be further extended to protect databases and applications using the NetBackup database and application agents along with the Advanced Client.



*NetBackup's snapshot backup configuration wizard recommends and configures the appropriate snapshot method based on user requirements and client attributes.*

### PRODUCT HIGHLIGHTS

- **Single Snapshot Integration Package** — NetBackup Advanced Client delivers several technologies within a single option. The level of automation provided by Advanced Client completely eliminates the need for creation and management of elaborate scripts.
- **Support for Multiple Snapshot Methods** — Advanced Client integrates with VERITAS and other 3<sup>rd</sup> party snapshot technologies. This gives the user the ability cut costs by leveraging snapshot capabilities that may already be in use.
- **NEW! Support for Additional Disk Snapshots using VSS with Microsoft Windows 2003** — NetBackup becomes even more flexible by supporting additional disk snapshot technologies that leverage the Windows 2003 operating system's Volume Shadow Copy Service.
- **NEW! Support for AIX and Linux** — Off-host backups that reduce backup impact can now be used on these platforms. In addition, Advanced Client can now utilize block-level incremental backups on AIX to further improve backup performance.
- **NEW! Support for Microsoft Exchange** — In combination with the NetBackup for Microsoft Exchange Agent, NetBackup can reduce backup impact and improve performance by performing an off-host backup of Microsoft Exchange servers.
- **ENHANCED! Instant Recovery integration with VERITAS Storage Foundations** — This further level of integration allows for faster data recovery by leveraging VERITAS fast file resync technology plus support for volume-level rollback, multiple snapshots, and retention management.
- **NEW! Snapshot Backup Configuration Wizard** — Backup configuration has never been easier. From the standard NetBackup wizard setup interface, the user can select the Snapshot Policy Configuration Wizard to align their data protection policies to meet their business requirements.

**What’s Your Requirement?**

Advanced Client technologies can meet a variety of requirements because it is delivered as one NetBackup option and requires no scripting. Each technology within the Advanced Client can deliver one or more of the following benefits:

- Reduced Impact Backup
- Enhanced Backup Performance
- Fast Recovery

**Reduced Impact Backup**

Achieve reduced impact backup with the Advanced Client’s Off-host Backup capability.

NetBackup Advanced Client’s off-host backup methods shift the backup overhead off business critical systems to an alternate data mover. To help eliminate the backup footprint off database or application servers, the NetBackup Advanced Client can leverage three different types of off-host backup techniques.

**Enhanced Backup Performance**

Achieve enhanced backup performance with the Advanced Client’s FlashBackup and Block-Level Incremental Backup capabilities.

FlashBackup is designed for file systems that contain a huge number of small files. This scenario usually provides an extremely difficult process for the backup and recovery application. FlashBackup, however, it able to eliminate this performance issues by combining performance of raw-partition backups while not sacrificing the ability to achieve restore individual files.

- **Increased Backup Performance** — Raw-partition backups at the block level increase backup performance over standard file-ordered methods.
- **Individual File Restores** — Restore individual files or directories without restoring the entire raw partition.

The Block-Level Incremental Backup feature decreases the amount of time needed for Oracle and DB2 backup and recovery operations by greatly reducing the amount of data involved.

- **Online Backup** — Perform full, differential, and cumulative block-level incremental backups while the Oracle or DB2 database remains available.
- **Complete Protection** — Advanced Client BLIB feature enables granular backup and recovery at the supported object or file levels.

**Fast Recovery**

Experience fast recovery with Advanced Client’s Instant Recovery.

Instant Recovery provides all the benefits of advanced data protection without the need for data movement. Administrators can quickly combat user error and application corruption by restoring from a snapshot residing on disk.

- **Simplified Data Movement** — Use of local disk snapshots means no requirement for tape or network resources.
- **Resource Management** — NetBackup uses a flexible rotation schedule to manage all snapshots. The result is better use of disk space and the ability to create more frequent snapshots.

Advanced Client Features	Key Benefits
Array & Software Snapshot Integration	• Support for a variety of Array & Software Snapshots provides a base for all Advanced Client Solutions
Off-host Backup	• Backup Overhead Shifts Off Critical Systems to an Alternate Data Mover
FlashBackup	• Fast File System Protection with Raw Partitions Backups and Individual File Restores
Block-Level Incremental Backup	• Block-Level Backup and Recovery, Less Data leads to High Performance Protection
Instant Recovery	• Disk-Based Backup and Recovery without Data Movement

## PLATFORM & SNAPSHOT SUPPORT

### NetBackup Support

NetBackup 6.0 Enterprise Server

### Platform and Database/Application Support

Platform	Advanced Client Solution
Hewlett Packard HP-UX	FlashBackup, Instant Recovery, Off-host Backup, & BLIB
IBM AIX	Off-host Backup, BLIB
Linux	Off-host Backup
Microsoft Windows	FlashBackup, Instant Recovery, Off-host Backup
Sun Solaris	FlashBackup, Instant Recovery, Off-host Backup, & BLIB

Database/Application	Advanced Client Solution
IBM DB2	Instant Recovery, Off-host Backup, BLIB
Oracle	Instant Recovery, Off-host Backup, BLIB
Microsoft SQL Server	Instant Recovery, Off-host Backup
Microsoft Exchange	Off-host Backup

### Snapshot Integration

NetBackup Advanced Client software leverages vendor-defined APIs to integrate seamlessly with a variety of hardware and software snapshot providers. To meet their data protection needs, administrators are offered the flexibility to select the most appropriate snapshot technology.

### Hardware Snapshot Providers

- EMC
- Hewlett Packard
- Hitachi Data Systems
- Network Appliance
- Sun Microsystems

### Software Snapshot Providers

- Microsoft (VSS)
- VERITAS Software

This is a summary of NetBackup platform & snapshot support. For complete NetBackup 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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