

Universal Data Protection Built on NetApp

Powered by Catalogic™ DPX™

Conventional Backup is Failing

Conventional backup technologies are failing everywhere. Unable to keep up with massive data growth, aggressive virtualization initiatives and heightened recovery requirements, conventional solutions are being replaced by newer technologies like snapshots to protect modern datacenter environments and deliver reliable disaster recovery (DR).

NetApp® is a leading innovator in disk-based data protection technology, using snapshots, clones, replication, deduplication and compression to build end-to-end data protection that is efficient, flexible and fast, moving far beyond conventional data protection. While NetApp technology is usually used to protect data stored on NetApp primary storage, Catalogic software changes the paradigm.

Only Catalogic's snapshot-based architecture extends NetApp data protection into any primary storage or server environment, consolidating backup and Disaster Recovery onto the NetApp FAS platform, making use of NetApp core technologies and extending them with multiple value-adding features. The combination of NetApp storage and Catalogic DPX software makes up the NSB™ solution.

In short, Catalogic turns NetApp storage into a fast and effective data protection appliance that can protect any IT environment.

NetApp: The Data Protection Innovator

For years, NetApp has been a leader in disk-to-disk data protection innovation, delivering the most efficient snapshot and clone technology in the industry. Data stored on NetApp devices can be protected quickly, using minimal disk space, and restored in minutes. NetApp's SnapMirror® replication provides site-to-site data protection for Disaster Recovery. All these features are delivered using a unified software platform, Data ONTAP®.

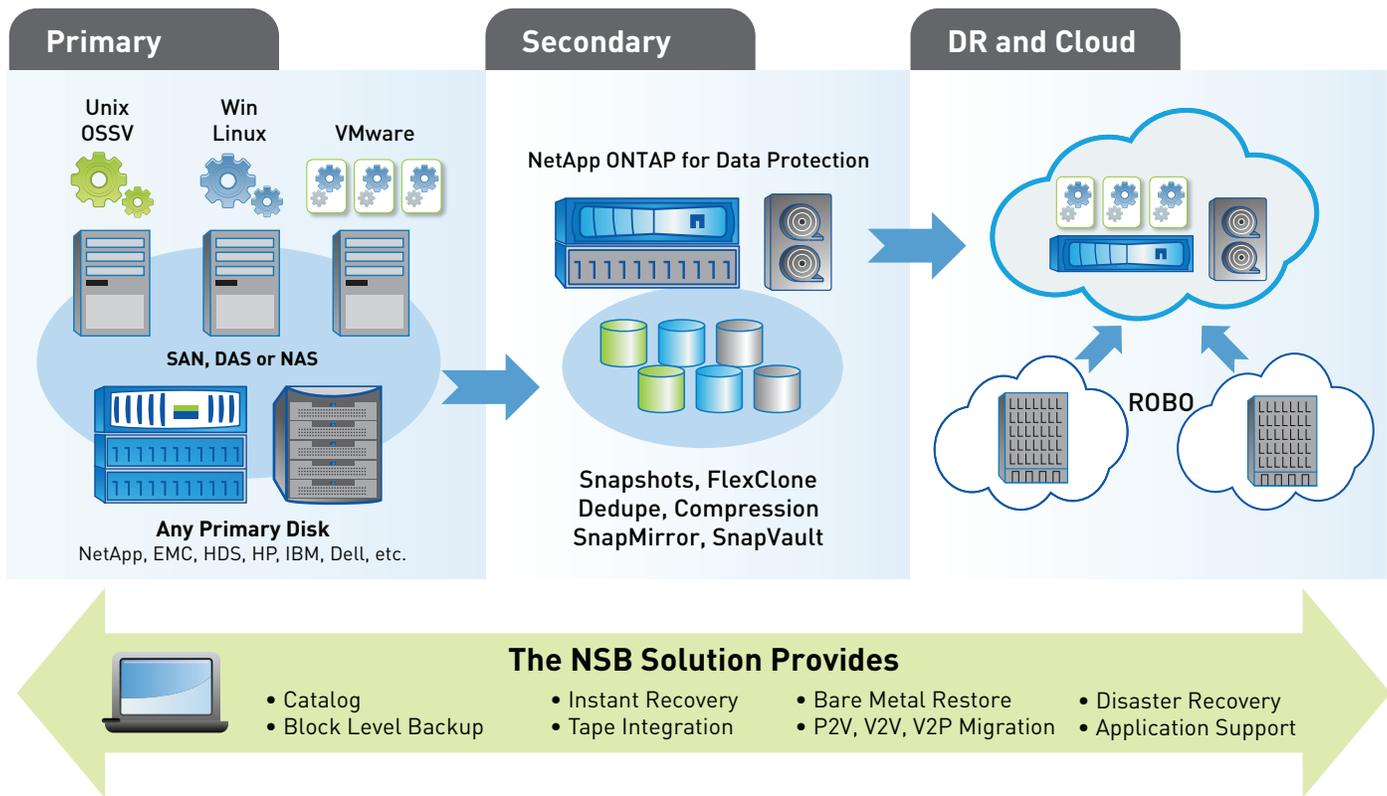
Various tools are available to help administer the NetApp protection features, but they are limited to NetApp-only environments. How can NetApp's premium data protection features be extended to protect data that is not stored on NetApp disk? The answer is through the NSB solution.

NSB Delivers Value to Users in Six Key Areas:

- Fastest Backup with Minimal Server Impact
- Recover Data and Applications in Minutes
- Integrated Disaster Recovery
- Lower Total Cost of Ownership
- Simplified Operations, Easy Administration
- Multi-purpose Hardware Platform

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The NSB solution consolidates backup and DR for any storage onto the NetApp FAS platform. .

NSB: NetApp Data Protection Everywhere

Catalogic provides unique integration with NetApp storage by allowing any server, physical or virtual, to be backed up to a NetApp FAS unit, using the SnapVault® protocol, to take advantage of NetApp efficiencies in backup, storage and recovery. It doesn't matter what mix of primary storage is in place. The NSB solution can protect SAN- and NAS-based data housed on any disk vendor array (NetApp, EMC, Hitachi, IBM, Dell, HP, etc.), and can also protect direct-attached storage and internal drives such as boot disks.

Every block of data can be protected using data-reducing, rapid block-level incremental backup, similar to what NetApp provides for SnapVault backups from FAS to FAS. Storage footprints are further reduced through NetApp deduplication and compression technology. NSB also adds functionality by providing integrated export of data to tape for long term archival storage.

For recovery, NSB makes use of NetApp FlexClone® technology to restore any size data volume in minutes. NSB complements NetApp by adding numerous features to further enhance operations, including a searchable file catalog, easy wizard driven workflows, application integration with item level recovery, Bare Metal Restore from any backup, and industry leading integration with VMware to recover any backup as a virtual machine in only minutes.

NSB drives down operational costs because backup admins do not need to be NetApp storage specialists. All operations are driven through the NSB console. Extremely high backup success rates dramatically reduce the amount of troubleshooting typically required in backup environments, further reducing management time.

To complete the solution, NSB unifies backup and disaster recovery by making use of NetApp SnapMirror® replication technology. Multi-vendor primary disk data is consolidated onto a NetApp FAS appliance by local backup and then replicated to another FAS unit for off-site or cloud-based DR storage. Remote and branch office sites can also easily be protected. By unifying backup and DR, NSB further drives down costs, increases efficiencies and helps ensure organization recovery goals are achievable.

Delivering Value for Users

By combining Catalogic data protection technology with NetApp storage, the NSB solution delivers six key values for users.

1. Fastest Backup with Minimal Impact

Reduce backups to minutes per day — NSB reduces backup times by 90% or more. Backups that used to take hours now take only minutes.

Achieve greater backup success rates — Success rates of 99% or more provide true set-and-forget backup, eliminating tedious backup troubleshooting.

Minimal application and VM impact — NSB minimizes CPU and disk impact, a critical factor in virtual environments with limited, shared resources.

Real world success — A major amusement park operator completes nightly backups that used to take 20 hours in only 2 hours, a 90% reduction in backup time!



2. Recover in Minutes

Restore any sized volume in two minutes — Backups are stored as NetApp snapshots which can be quickly mounted as read/writable volumes for rapid business continuity and data recovery (including application data).

Multi-tiered data recovery — Any backup can be used to recover data at the level of a file, volume, application or entire server (physical or virtual).

Virtual Machine recovery — Any backup can be automatically booted as a new virtual machine in minutes, whether from a physical (P2V) or virtual (V2V) source.

Bare Metal Restore — Any backup can be used to rapidly rebuild a physical server, even across different hardware. No special servers or backups are required. Also supports virtual-to-physical (V2P) restore.

Real world success — A branch of the U.S. military restores applications in under six minutes with NSB!

3. Integrated Disaster Recovery

Cloud-Ready — NSB recovery features support public, private and hybrid cloud deployment scenarios.

Rapidly restart applications as virtual machines — Any replicated backup can be automatically booted as a new virtual machine in minutes, whether from a physical or virtual source, allowing for fully virtualized DR sites.

Bandwidth saving replication built-in — Backup images can be replicated to an alternate location for a truly integrated backup and DR solution, allowing you to recover entire sites in the event of a major disaster.

Protect remote and branch offices (ROBO) — Easily protect remote sites with both local data recovery and off-site replication in a single solution

Non-intrusive DR testing — Test and validate recovery operations in minutes without disturbing ongoing data capturing.

Integrated tape export — Easy export to tape for long-term retention of data.

Real world success — A service provider delivers one-hour recovery guarantees to its customers using NSB!

4. Lower Total Cost of Ownership

Maximize savings on secondary storage — NSB maximizes disk efficiency by combining data reducing backups with target-side deduplication and compression.

Lower data protection costs — Reduced disk consumption means lower disk acquisition costs and reduced power, cooling and data center floor space.

Replace multiple point products — NSB provides a single solution for physical and virtual servers, applications, disk and tape, backup and DR, allowing you to eliminate multiple point products and their license costs.

Reduce infrastructure utilization — Block-level backup reduces resource consumption across your backup environment by moving and storing less data, letting you extend the life of your current infrastructure investments.

Simplified infrastructure — NSB eliminates the media/device server layer of conventional backup designs, reducing overall hardware and maintenance costs.

Eliminate or minimize tape usage — Store more data on disk to eliminate or greatly reduce tape consumption. Replace tape shipment with data replication to eliminate transport costs and risk.

Real world success — A restaurant chain eliminated more than 50 TB of weekly tape creation as well as off-site tape transport!

5. Simplify Operations with Easy Administration

Intuitive user interface — Simple wizards and workflows eliminate complexity and scripting.

Searchable snapshot catalog — Locate files quickly with easy-to-use catalog.

Keep the existing primary storage infrastructure — NSB works with any primary storage environment, both SAN and DAS, allowing you to consolidate backup data without having to change or reconfigure the primary storage.

Cloud-capable — Deploy “data protection as a service” with easily managed protection and recovery service levels.

Superior backup architecture — NSB’s unique architecture eliminates all servers in the backup data path (media/device servers), improving performance while removing an entire layer of architectural cost and complexity.

Real world success — A major purchasing cooperative that had a full-time administrator just for backup switched to NSB and now manages backup in less than an hour a day!



6. Multi-Purpose Hardware

Greater Flexibility — NSB is built on multi-purpose disk storage from NetApp which can be used for both primary storage as well as secondary and DR storage, unlike single-purpose backup devices.

Best-in-Class Hardware — NSB provides industry leading hardware performance, efficiency, snapshots, clones and replication using the NetApp FAS platform.

Easy to Grow — NSB storage can be easily expanded by adding additional disk shelves, without the need to add additional controllers.

Easy to Upgrade — NSB storage can be upgraded by swapping out controllers without the need to forklift upgrade the disk shelves.

Universal Data Protection with NSB

The NSB combination of NetApp FAS storage and Catalogic software delivers an easy-to-use universal data protection appliance that protects any data at any location. Rapid, low-impact backup protects applications while eliminating backup window concerns. Fast local recovery via snapshot technology is provided for multiple recovery tiers: files, volumes, applications and servers.

NSB extends protection to ROBO sites and DR centers with integrated disaster recovery, delivering a key IT improvement needed by many organizations.¹ Cloud-enabled capabilities offer flexible deployment options for private, public or hybrid models.

The NSB solution is the only truly universal data protection environment built on NetApp storage and making use of NetApp best-in-class data protection features. With a simplified deployment model, easy-to-use features and exceptional reliability, NSB is the best choice for modernizing your data center protection.

¹ Based on 2012 survey data from Enterprise Strategy Group, 28 percent of organizations will make significant investments in improving disaster recovery in the next 12 - 18 months.



Alliance Partner

Catalogic Software combines cataloging, backup, disaster recovery and copy data management for the most complete approach to optimizing data protection.

NetApp creates innovative storage and data management solutions that accelerate business breakthroughs and deliver outstanding cost efficiency. Discover NetApp's passion for helping companies around the world go further, faster at www.netapp.com.

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