

Network and Data Center Backup and Restore

NovaBACKUP® DataCenter

A Smarter Solution for Enterprise Data Protection

NovaBACKUP DataCenter sets a new standard for corporate data protection in heterogeneous environments and data centers. This best-of-breed solution is OS platform and hardware neutral equipping users with highest degree of flexibility. Based on a unique distributed architecture, NovaBACKUP DataCenter scales to protect the largest amounts of data and applications within the most demanding of enterprise environments. NovaBACKUP DataCenter offers unparalleled speed, efficiency and reliability in all environments including “Big Data” and Cloud architectures. It is the perfect alternative for those who prefer a far more attentive vendor, and businesses looking to transition away from burdensome solutions or escape complex pricing models.

Benefit from:

- › Active clients and passive backup servers
- › High speed data movers
- › Redundant meta-data architecture
- › Asynchronous, central management
- › Simple, cost-effective license model
- › Supports heterogeneous IT-environments

Your advantage:

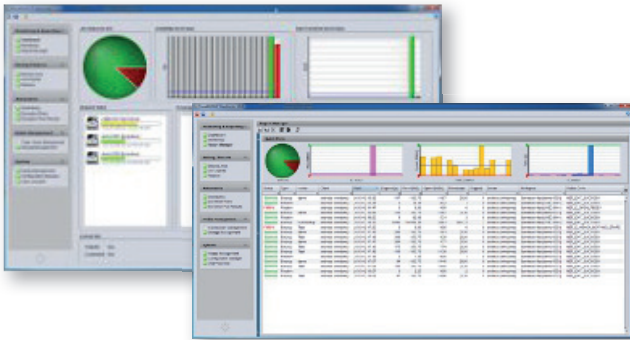
- ✓ High speed backup and restore performance
- ✓ Unlimited scalability
- ✓ Full flexibility for infrastructure and process integration
- ✓ High availability in daily business operations
- ✓ Minimize total cost of ownership
- ✓ Individual customer relationship
- ✓ Local support in English



Your Data Center: Reduce Costs – Improve Reliability.

NovaBACKUPDataCenter lets you get more from your IT department in two ways. First, it allows you to automate most data protection tasks, which allows your IT employees to focus on other departmental tasks. It also minimizes the chance for human error in the backup and restore process, which is the most common and often the most costly cause of data availability problems.

You'll be amazed at how easy the NovaBACKUP DataCenter client is to use, especially if you are considering migrating from a competitive solution. Customizable filters and notifications make information easy to find and allow you to keep track of everything, and features like template based backups simplify and standardize the backup solution concept.



Asynchronous central management gives you total control when you need it most

Execution Plans enable the modeling of complex storage and backup-processes for precise adaptation of NovaBACKUP DataCenter to individual business flows.

"By partnering with NovaStor, we will save hundreds of thousands of dollars. The new opportunities gained will be worth millions."

**Travis Carter,
Co-Founder and VP Technology at US Internet**

The software also features integrated accounting functionality for departmental billing. Pre and Post Script driven actions integrate seamlessly within the backup process.

Improve Data Center Performance: Virtualization & Deduplication

NovaBACKUP DataCenter supports innovative technologies and data protection measures with an open architecture. We believe that a company shouldn't have to redesign their data availability scheme to fit their backup solution. With NovaBACKUP DataCenter, you design your storage infrastructure according to your needs and preferences. For example, you can easily migrate data from legacy hardware to newer devices in a few short clicks within the interface; distributed storage and cloud architectures are supported by dynamic storage use and automated selection of available storage resources (fail over.)

Compatibility

NovaBACKUP DataCenter supports a wide range of operating systems, databases and storage systems. Your price includes interfaces for SQL servers, Oracle, DB2, Informix, etc. as well as full support for the operating systems, infrastructures and storage devices listed.

OPERATING SYSTEMS

- all common UNIX Systems (HP/UX, Solaris, AIX...)
- Linux (Kernel 2.4 and 2.6), Linux S390
- Windows 32 Bit / 64 Bit

INFRASTRUCTURES

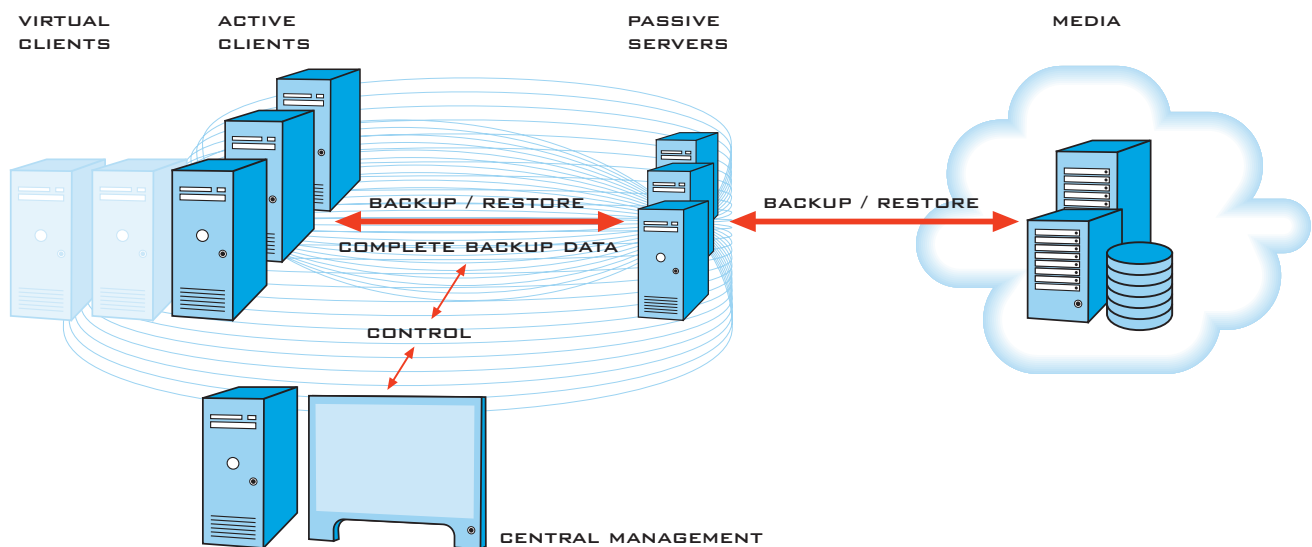
- SAN Infrastructures
- Backup and management via WAN
- LANless / Serverless Backup
- NDMP support
- Virtualization solutions (VMware, Hyper-V)

NovaBACKUP DataCenter provides enterprises with the utmost flexibility. When dealing with virtual machines, NovaBACKUP DataCenter allows you to combine multiple backup methods such as snapshot technology or single file backup without confinements. VMware functionality comes standard, at no additional cost.

With its open architecture NovaBACKUP DataCenter also reduces your enterprise's data load through deduplication appliance support. You can optimize results by running the deduplication appliance of your choice.

KEY FEATURES/ PERFORMANCE SPECS

- Backup/Restore speeds up to more than 400mb/sec per datastream
- Asynchronous Central Management
- Easy, Unlimited Scaleability
- Open Architecture to optimize reliability/efficiency
- All Included Pricing. No More Add Ons!



NovaBACKUP DataCenter's architecture is designed to streamline the data storage process to maximize efficiency and reliability.

Compatibility

Please contact us for systems not listed below.

APPLICATIONS / DATABASES

- all common databases (MS SQL, Oracle, Informix, DB2, MaxDB, MySQL...)
- MS-Exchange
- Lotus Notes / Domino Server
- SAP R/3

STORAGE DEVICES

- all tape drives supported by the operating system (LTO, DLT, T10000...)
- Disk systems (Disk2Disk2Tape Backup)
- all Library systems
- Virtual Tape Libraries
- Deduplication Appliances

NovaBACKUP DataCenter – Features for Enterprise Data Protection

Fewer errors, fewer interruptions ... less time spent ensuring data availability

System Reliability	Fault tolerant architecture ensures high data availability: NovaBACKUP DataCenter's modular design protects all important components by using redundant backup strategies. Restores may be carried out on a client, even if individual components have failed.
Robust Communication	Backups and restores are possible even if the central database is not available. Simple administration of backup processes from one central management console, even across distributed locations (using WAN).
Server and operating system-wide process control	Individual definition of conditions and sequences for backup jobs to assure the smooth operation of company-wide business processes.
Support of failover media pools	Less manual intervention: If a storage medium, local drive or backup server is not available, backups are automatically sent to alternative storage media.
Cluster Support	Less downtime: Support of cluster configuration ensures optimal availability of productive applications.
ATAP Restore	Any Time Any Place Restores: A direct restore is possible offline on the client using only the backup medium and a drive. No central database is required.

High flexibility, better planning ... more alternatives for safe data

Disk 2 Disk	Efficient use of storage: Fast, parallel backups and restores to and from inexpensive disk systems.
Disk 2 Disk 2 Tape	Time saving and efficient: Backing up data to a disk staging area before moving the information to tape enables fast backups and restores – without re-staging. Replaces and spares investments for virtual tape libraries.
File System, Raw, Image and Pipe Backup, Snapshot	Unlimited flexibility: NovaBACKUP DataCenter supports the backup method best suited for protecting individual files, whole disk partitions or applications.
Virtual Systems	Optimal use of resources: Flexible Support of physical and virtual server environments without confinements to particular manufacturers. P2V and V2P support.
Logical Cloning	Cost efficient protection if individual backups are lost: Single selected backups can be logically copied to different backup servers and locations.
Executions plans	Easy mapping of backup processes and storage operations such as snapshots - independent of any server or operating system limitations. Enables the execution of sequential backup jobs.
Reporting	Powerful, configurable reporting with a clear visual display and automatic e-mail delivery. Export capabilities to HTML, XML, etc. for seamless connectivity to third party systems and processing of data.
Accounting	Integrated accounting functionality to allow invoicing for data availability as a service: All relevant data is captured and logged. Accounting IDs can be assigned when individual backups are set up for easy and clear allocation of resources.

Better performance, fewer resources ... reduced cost and administration

High Performance Data Movers	Minimized system load: Optimized data compression distributes system load on the clients and the backup servers.
LAN-less / Serverless Backups	Faster backups and restores: The client writes directly to the storage media – without going to a backup server. This increases the backup speed and avoids unnecessary network traffic.
Optimized Deduplication	NovaStor's backup format optimizes deduplication rates and enhances the performance of hardware appliances to facilitate the reduction of backup data with deduplication.
Bare Metal Recovery incl. Universal Restore	Restore of complete systems on new hardware, free choice of location in which an image will be stored, including network, magnetic tape, hard disk or D2D2Any. P2V and V2P for fast recovery and enhanced the performance of physical and virtual systems.
Multiplexer	Optimal use of the fastest tape drive: Powerful and efficient data multiplexer can write up to 128 parallel data streams to one drive. And a parallel restore is possible as well.
Dynamic Tape Drive Sharing	Efficient storage use: Clients and servers can optionally use a shared pool of tape drives thus optimizing the resource usage.
NDMP Support	Storage consolidation: Backup and restore windows are minimized and libraries used efficiently due to client connections via Network Data Management Protocol (NDMP).
Inline Cloning	Low cost protection in case of loss of individual backups: Data can be written to two or more mirrored tape drives in parallel, even on separate backup servers in different geographical locations.



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