

Considering a Disaster Recovery Solution? You Should...



Based in Texarkana, TX, DataCast, Inc. provides a broad array of technology services tailored to small and medium-sized businesses. Operating a Secure Data Center as our hub, and delivering productivity enhancement software solutions, we help companies improve network, application, and data management .

Most Small or Medium-sized Businesses:

- Do not have an adequate, reliable disaster recovery plan in place
- Rely upon tape backup (Gartner statistics report that **70% of tape backup restorations fail**)
- Do not secure their data - **no encryption**
- Do not utilize readily accessible off-site storage
- Consider **cost and complexity** as the two main obstacles to implementation of a full-scale business continuity solution
- Would be significantly impacted if their data and/or applications were lost

A Breakthrough Approach...

DataCast offers a **fully-managed** disaster recovery service that brings an **affordable and reliable** solution to the small business market. Encompassing near real-time data backup combined with **server virtualization** capabilities, our customers are provided with the highest level of data and application security. Summary of features include:

- On-site data replication to a Network Attached Storage (**NAS**) device as frequently as every 15 minutes
- Block level (1's and 0's) backup that ensures entire volume of server(s) is captured. The block level image is an **exact digital duplicate of the production servers**
- Capability to backup **multiple servers** to a single NAS device
- Server Virtualization, utilizing NAS, in the event of hardware failure
- Offsite storage at **two, XO high-availability data centers**

Scalable and Affordable...

With various **options** available, a properly sized NAS can be configured for your environment. Base-model configurations, combined with secure offsite storage, can be provided for **less than \$200 per month**. Contact us for a free, no-obligation estimate on the model that is right for your business.

Enjoy the security of knowing that your **data and applications** are **protected** in the event of a disaster.

NAS Server Models

Features	1100	2100	3100
Maximum # Servers that can be backed up	3	8	16
Storage Capacity (2:1 Compression Ratio)	1TB (1TBx2 RAID1)	2TB (1TBx3 RAID 5)	4.5TB (1TBx6 RAID 5)
Form Factor	Tower	2U Rack Mount	2U Rack Mount
CPU	Dual Core Opteron	Quad Core Opteron	2xQuad Core Opteron
Memory	8GB	8GB	16GB
Bundled Offsite Storage	300GB	600GB	1500GB

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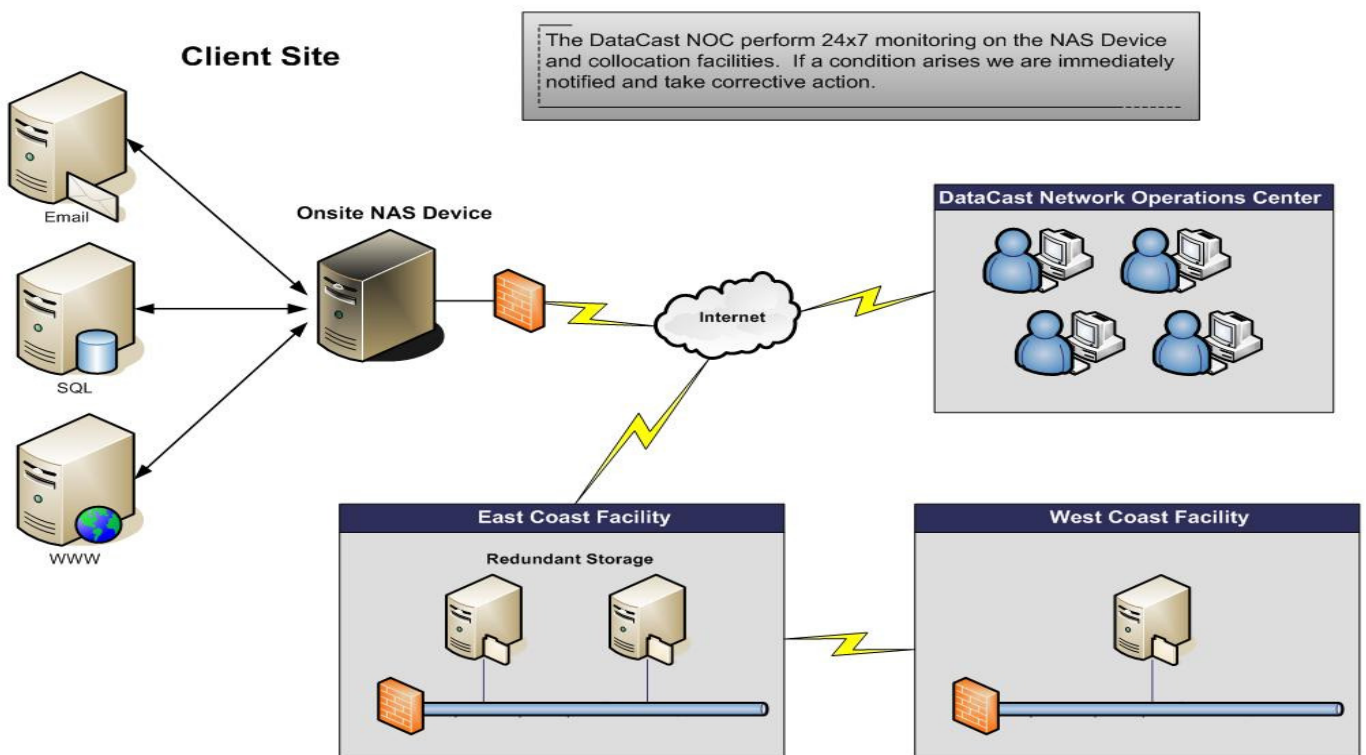
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How It Works...

Based on **Incremental Forever Technology**, our solution allows more restore points than a traditional tape backup. Upon installation, which typically takes approximately 4-6 hours to complete, an initial base image of the server is taken, and then incremental snapshots are taken as frequently as every 15 minutes. The NAS creates an independent **256-bit encrypted tunnel** and transmits the imaged data to a secure **Primary** offsite location where it resides in an encrypted, compressed format. The Primary remote site then replicates again to an **alternate** data center, creating a total of three copies of the data in three geographically distinct regions. Since the data is encrypted, and only you have the pass key, no one has access to the data on the NAS or at either of the remote storage facilities. We employ the 256-bit Advanced Encryption Standard (AES) algorithm, considered the gold standard of encryption techniques, which renders transmitted data immune to theft. The NAS, Production Servers, and Remote Storage facilities are **monitored and managed 24x7** by our Network Operations Center (NOC) Team. If an issue occurs during any backup or with the hardware, we are immediately notified and take corrective action. Your staff have complete visibility of the backups via a portal in which you are provided.



What happens if a hardware/ server failure occurs?

The DataCast NAS comes with built-in virtualization software, allowing a failed server to be **virtualized in a matter of hours**. Since the total image of the server is being routinely backed up, no configuration changes are needed - the virtual image has the same properties, IP address, and NetBIOS name as the failed server. When new or replacement hardware becomes available, the virtual image is shutdown and the latest backup image is used to perform a bare metal install onto the new hardware.

What Happens in the event of a catastrophe?

In the event of major catastrophe (such as a natural disaster or fire), a new DataCast NAS is imaged, utilizing the most recent backup, and shipped next-day to your designated delivery point. This replacement NAS can be used to quickly re-establish business operations. Depending on the model, multiple servers can be virtualized on a single NAS, and data backups to the offsite data centers continue. Once new hardware is available, a bare metal restore to the new hardware is performed. A major advantage of the DataCast NAS is the capability to provision a bare metal restore to dissimilar hardware. By manipulating the HAL (Hardware Abstraction Layer), we install the correct drivers for the new motherboard and components on the new servers - Operating System and Application reinstallations are not needed.