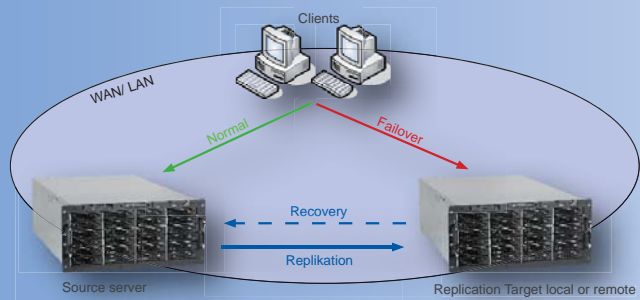




High availability solutions

In times of rapidly increasing storage capacity for data, the requirements towards the safety and availability of critical company data also increase.

Quickly restoring access to important data is of primary concern. The previous method of backing up data to tape quickly reaches its limits here. Particularly as data quantities in the terabyte range often no longer have a corresponding backup window.



rapidSTOR DT: entry level solutions already available for less than 10.000,00 Euros

That is why N-TEC® offers high-availability solutions which guarantee that data are kept redundant directly while writing and remain accessible even if one or even several components fail.

The keywords here are data replication, mirroring and memory virtualisation.



Because small companies often cannot accept any downtimes which could occur in the event of a fault until the data is restored, N-TEC makes it a point to offer affordable, yet highly efficient solutions to these companies as well.

On the other hand, not only does the availability of data play a fundamental role in medium-sized and large companies, but also the flexible expandability of the storage systems and highest performance during data transfer. It should be possible to enlarge and relocate volumes and partitions online without the user noticing anything.

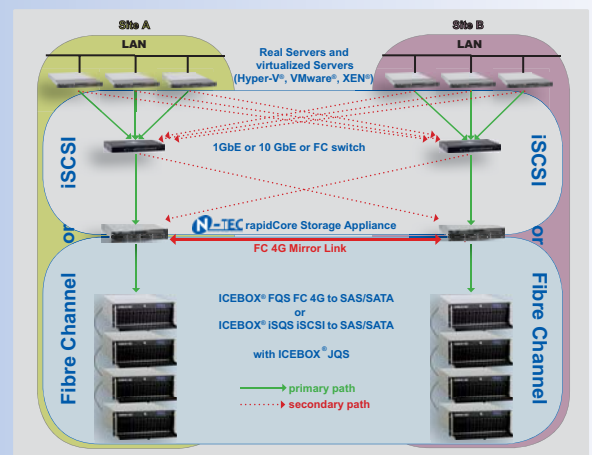
Scenarios with „No Single Point of Failure“ and multipathing (MPIO) guarantee the availability of the data at the highest level.

In the process, the memory systems are completely independent from the utilised operating systems on the host side. No matter whether virtual or physical systems, cluster configuration under Windows, UNIX/Linux or even Netware and Apple Systems, the utilised appliances supply all systems, even in heterogeneous environments.



The user is just as flexible in the selection of the actual storage units. He is not bound to the products of just one manufacturer. Existing devices - if they have the corresponding host ports - can be readily integrated. Connection on the host side occurs over iSCSI or Fibre Channel, and the storage units are connected using the same interfaces.

Volumes and partitions can be distributed across different systems, or the data can be mirrored on different systems.



rapidCore: cost effective with Enterprise Features for small and medium business



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rapidCore

Advantages of rapidCore:

- **Mirroring instead of replication**

Mirroring data to other storage units ensures the absolute redundancy of the data. Active/active and active/passive configuration of the appliance is possible.

- **Independent from operating system and application**

With rapidCore, physical servers with current operating systems, virtualised servers as well as cluster nodes can be equipped with redundant memory. Software installation on the respective host computers is not necessary. rapidCore naturally can be operated in a heterogeneous host and operating system environment that contains all of the previously stated elements (physical server, virtual server, different operating systems).

- **Real memory virtualisation**

New storage units - even different systems - can be added to rapidCore at any time. Expansion occurs online and without down times. In the process, volumes and partitions can be flexibly expanded and managed.



- **Reduction of costs through memory consolidation**

Different memory units are used for the different requirements in the company. Data that is less frequented, not critical to the company or not required for operation is thus stored on inexpensive memory. Data that always needs to be quickly accessible is stored on fast memory units. This noticeably reduces the memory costs for individual divisions.

- **Highest performance**

Connection on the host side occurs over iSCSI. For high-performance and flexible connection of hosts and storage units, the rapidCore systems can be optionally upgraded with FC interfaces as well.

- **Highest failure safety through „No Single Point of Failure“**

The highest failure safety can be achieved if the entire system is designed accordingly, as the data is always available using additional routes when individual components fail. Thus, rapidCore can even implement redundant computing centres. Automatic failover, failback and a multipath connection ensure uninterrupted access to data in the event of a fault.

- **Data replication and virtualisation via WAN**

With SANMelody™ software, data can be replicated even via MAN and WAN routes and kept redundant.

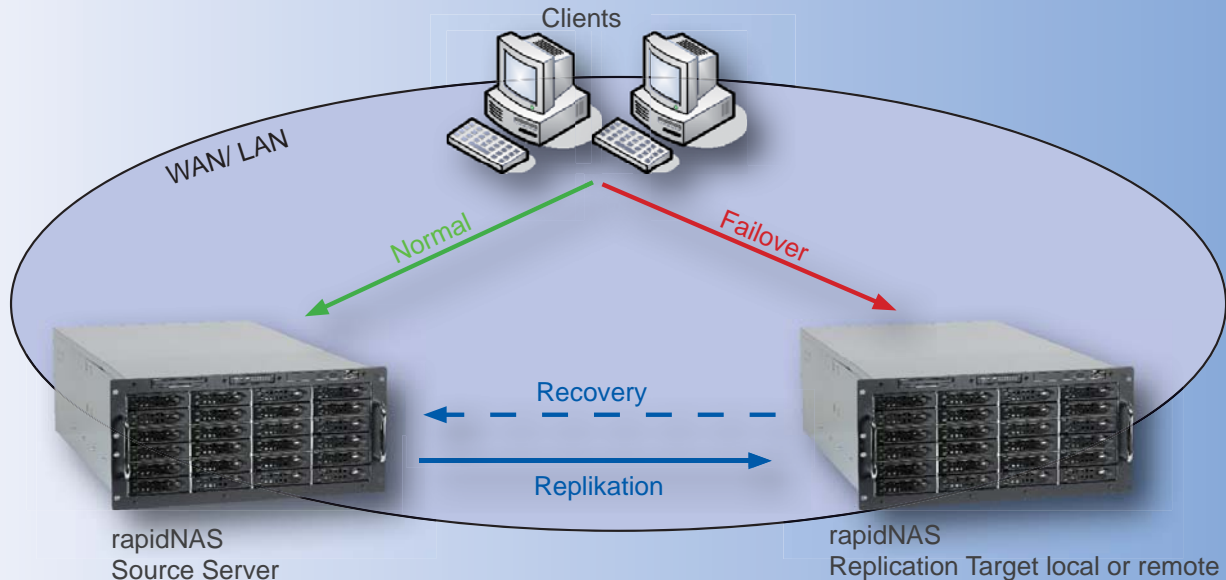
- **Simple and central management**

The storage units are managed by an easy to operate and intuitive graphical user interface.



rapidSTOR DT

Data replication with automatic failover for servers and NAS devices



Advantages of rapidSTOR DT:

- **Data backup in real time**
Replicates data continuously and at byte level across every jointly utilised or private IP-based LAN, WAN or SAN. This ensures that changed data are protected and can be quickly restored at any time.
- **Application-independent**
Works with your existing hardware to protect applications such as Exchange, Microsoft SQL Server, Oracle, Share Point, etc.
- **Continuous data backup through data replication**
Guarantees the maintenance of the business operation and high availability via real-time replication. If a system fails, the failover function ensures the restoration of data access within minutes, thus preventing non-productive time.



- **Easy installation and maintenance**
Makes it possible for companies of any size to install and maintain Double-Take to secure their data against loss. Integration in the existing structures takes less than an hour.

- **Integration in virtual structures (VMware®, Hyper-V®)**
rapidSTOR DT can secure the data of virtual servers from the host operating system (and thus protect all virtual servers on this host), or from the guest operating system (protection just as for the physical servers).
rapidSTOR DT can continuously secure data on virtual systems and implement failover to another physical host within minutes. When using virtual systems in the Disaster Recovery Site, the number of physical servers can be reduced and autonomous virtual targets can be provided for every customer or every company division.
- **Cost-effective**
Offers the best possible protection for the lowest price at faster amortisation—pays for itself within a few months.
- **Flexible and scalable**
With capacities of up to 96 TB gross and various further expansion options, the performance can be adapted to the increasing requirements.



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