



# Backup Express

## Success Story: Nuremberg Airport

### Germany's Nuremberg Airport Finds the Perfect Solution for Novell Clustering in Backup Express

#### Organizational Profile

- International airport located in Germany
- Owned and operated by the State of Bavaria and the City of Nuremberg

#### Business Needs

- 24/7 availability
- Administer backups through a single catalog
- Support NetWare clustering

#### Environment

- Novell NetWare, UNIX and Windows platforms
- ADIC Faststor7 and Scalar 100 tape libraries

#### Benefits

- Provides an enterprise-wide backup solution
- Secures all servers through a single catalog accessible through an intuitive GUI
- Exploits NetWare clusters in a SAN environment

*"...with Backup Express's central catalog and cross-platform support, it only took two days for things to start running smoothly over a SAN."*

Joerg Schilasky  
System Administrator for Novell and Microsoft Systems  
Nuremberg Airport

#### The Challenge:

Located in Germany, Nuremberg Airport is owned and operated by the State of Bavaria and the City of Nuremberg, and employs almost 800 workers. This partnership is responsible for ensuring that the airport's enterprise-wide IT infrastructure is up and running at all times, and in all areas of operation. 24/7 availability is of primary importance. The airport has been using Novell NetWare on its servers since 1994, with very good results. "Aside from Novell NetWare, we use a mix of other operating systems on our servers," explained Joerg Schilasky, System Administrator for Novell and Microsoft Systems at Nuremberg Airport. "Above all, the efficiency of resource utilization through Novell Directory Services (NDS) makes our workload a lot easier," said Schilasky. At the moment, the IT Department has 60 servers, six of which are running Novell NetWare. Four of these servers form a cluster.

With the installation of a Novell cluster at the end of the year 2000, there followed a period that Schilasky came to dramatically call "two years of suffering." Originally, the IT staff had purchased a market-leading backup solution that was touted for its cross-platform support and tape library interfaces. Despite intensive work with tech support, however, the IT team at the airport could not get the Novell clustering functionality to work properly. Another problem they faced was that the backups for UNIX, Windows, and NetWare servers could not be administered through a single catalog.

#### The Solution:

Because the quality of the backups grew progressively worse, the IT team made a decision to look into alternative backup and restore solutions. They soon discovered Backup Express from Syncsort Incorporated. "For almost two years nothing worked properly with our old solution. But with Backup Express's single catalog and cross-platform support, it only took two days for things to start running smoothly over a SAN," said Schilasky. "We were able to accomplish the installation ourselves, with Syncsort's assistance, over the telephone." After successfully running Backup Express in a test environment, the team installed it into the existing infrastructure. According to Schilasky, configurations of the master and device servers were completed in two days, after which full backups could be accomplished.

The Nuremberg Airport network data resides in a variety of databases and on the Novell cluster, which holds the core of the collected data. Two ADIC tape libraries are used for backup of the major applications—a Faststor7 for a variety of server data and a Scalar 100 for dynamic user data. The Scalar 100 has 45 tape slots and only undergoes a tape swap once a month. The fact that the Scalar 100 resides on the same SAN as the Novell cluster offers the advantage of efficient Novell Server backups. Next to the master server,



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Nuremberg Airport also has four other device servers which are linked to the Novell cluster and the SAN.

### The Benefits:

Today, all the servers in the aviation and general operations areas are secured by Backup Express through one central catalog. According to Schilasky, one outstanding advantage of the product in the new environment is the capability for NetWare cluster backups. Because Backup Express is "cluster-aware," if fail over occurs during a backup job, the task will automatically succeed on another physical node.

For Schilasky and the staff at Nuremberg Airport, it feels good to be able to leave behind the frustrating experiences of the past and move forward into a secure enterprise with Backup Express.



### About Backup Express:

Backup Express is an enterprise-wide backup and restore solution designed for UNIX, Windows, and NetWare environments and provides support for the broadest range of technologies and platforms. Backup Express is the only solution that supports any combination of UNIX, Windows, Netware, and NDMP/NAS in a SAN, performs backup of all data directly across the fibre network, dynamically shares all tape drives, and controls this single enterprise environment with a single catalog and easy to use GUI. Backup Express also supports all eight NDMP incrementals.



Backup Express's distributed architecture allows it to back up to any device in the network whether it is running UNIX, Linux, Windows, or NetWare, while maintaining a single central catalog for the entire enterprise. Backup Express can attach tape drives, including large automated libraries, at any server on the enterprise; dynamically allocate drives within a SAN; keep sensitive data off the network; and allow on-line backups of large database servers such as Oracle, SAP, MS Exchange, SQL Server, Sybase, DB2 and Lotus Notes. For more information, call 201-930-8200 or visit [www.syncsort.com](http://www.syncsort.com).