BMZ Moulds chooses a Syneto based Antedata solution to slash IT costs, improve CAD/CAM development by as much as 50% and get Disaster Recovery.

Solution delivered by

ANTEDATA

The Highlights

Industry
Design & production of precision industrial moulds

The Problem
Data loss risk, no Disaster Recovery capability, complex existing infrastructure with manual backups, inefficient CAD/CAM production and a reliance on expensive external IT help.

The Solution
Virtualise server infrastructure to reduce complexity, ensure Disaster recovery with fast Backups and Replication, Improve data access with SSD caching/data consolidation and remove the need for outside consultants by unifying data and servers.

Customer Profile

BMZ has been an active player in the mould making and mechanical works for over 30 years. Alfredo Zanola and Fabio Monatari, the current face of BMZ, are the main force behind the professionalism, determination and passion that drive the company through efficient objectives.

Consistent quality control management and an innovative approach towards the customer allow BMZ Moulds to win a leading role in the design and construction of steel and aluminium moulds for plastic injection and die-casting. BMZ is known in particular for their innovative work with racing and fighter jet helmets, where unique visor and critical part solutions prevent any optical imperfections.

BMZ is in a partnership with ZANOLA, a leader in finishing and polishing dies and is also a member of the Italian Union of Manufactures of Moulds and Precision Equipment. BMZ specialises in:

- Automotive parts
- Helmets & bike components
- Optics & lighting devices
- Electrical appliances
- Household items
- Die-casting
- Specialty moulds

⚠ The Problem

Safety of company know-how

BMZ moulds produces large amounts of important 3D files, customer information and analysis results who's safety is a must. This information is crucial to BMZs business and any risk of data loss jeopardises their business as a whole.

The company's existing storage infrastructure required labor-intensive manual backups which beside creating system downtime was incapable of offering the necessary redundancy to important information. BMZ was storing crucial data on dispersed hardware which created the perfect ground for data loss and inconsistencies.

Expensive external IT consultants

Due to the complexity of the storage and workstation environment, BMZ was relying on very expensive external IT consultants to keep the system running. The company was searching for a smart way to automate their data safety and centralise data storage without having to invest in outside IT personnel.

Beside the obvious inefficient spending on outside help, this measure also adds another layer of complexity to an already over-complicated infrastructure which was further slowing the workflow and ultimately adding even more costs.

Overly expensive CAD 3D workflow

Computer Aided Design & Manufacturing of industrial moulds and other products require team-effort to insure quick completion times and general workflow efficiency. BMZ was running the CAD/CAM software individually on separate workstations. This scenario creates several problems which combine to prevent a quick time-to-market for projects and products.

Firstly, 3D projects are built in different pieces and unified at the end of the project into a finished product. That's why CAD/CAM software managed only on individual workstations and not as a shared network resource generates inconsistencies. These discrepancies in 3D file versions due their separate origins require a lot of time to unify at the end of the project, and cost the company significantly more to market a product.

Secondly, without a central storage to act as a repository for all the CAD/CAM work the data is always at risk. Unforeseen circumstances can often result in the data's loss if there's no data storage with a modern backup solution available.

No Disaster Recovery Solution

BMZ existing storage server was only capable of manual backups, and performed by expensive external IT consultant at that. It was frequently plagued by inconsistencies and downtime. The company was also maintaining CAD/CAM separately on the workstations themselves. BMZ was looking for a modern unified storage solution that could provide backups and centralised data management without added consultancy costs.

⚗ The Solution

Virtualise server & workstation infrastructure

BMZ acquired the Syneto Office Storage with 8TB. Storage OS has a VMware integration feature which enables 4 traditional servers to be virtualised, reducing BMZ's IT complexity and associated costs. Their choice of product includes a set of smart Storage Efficiency features like Deduplication, Thin Provisioning and Data Compression is also included. These features actually offer BMZ even more capacity for the same investment.

With the separate servers and display workstations virtualised with Syneto Storage, BMZ gets the reduction in TCO and manpower costs they required.

On-the-fly fast data Backups & Replication

Syneto Storage also gives BMZ a true Disaster Recovery capability. The Backup feature is incremental, making the entire

procedure almost instantaneous. Backups on Storage OS can also be schedule to be automatically performed at predetermined intervals. This single features gives BMZ a simple and very efficient way to save their data without pain-stacking downtimes while maintaining CAD/CAM and VM data safety.

To further improve data redundancy, BMZ decided on a second Office Storage which receives Backup Replications from the main machine. This process is also fully automated and incremental, giving the team access to saved data from any point in time while insuring recoverability in unforeseen circumstances; An ideal situation!

Slash CAD costs by improving data access
An up to 50% read/write speed increase is currently delivered to BMZ thank to their choice of Syneto Storage. This is achieved by unifying all the company's infrastructure, including VMs and 3D files on to a single data storage platform. With all the resources centralised, data access times are considerably increased while planned/unplanned downtimes are virtually gone.

With CAD/CAM software consolidated on Syneto Storage, separate workstations benefit from the SSD cacheing layer which gives very high throughput for data which is currently used by the design and engineering
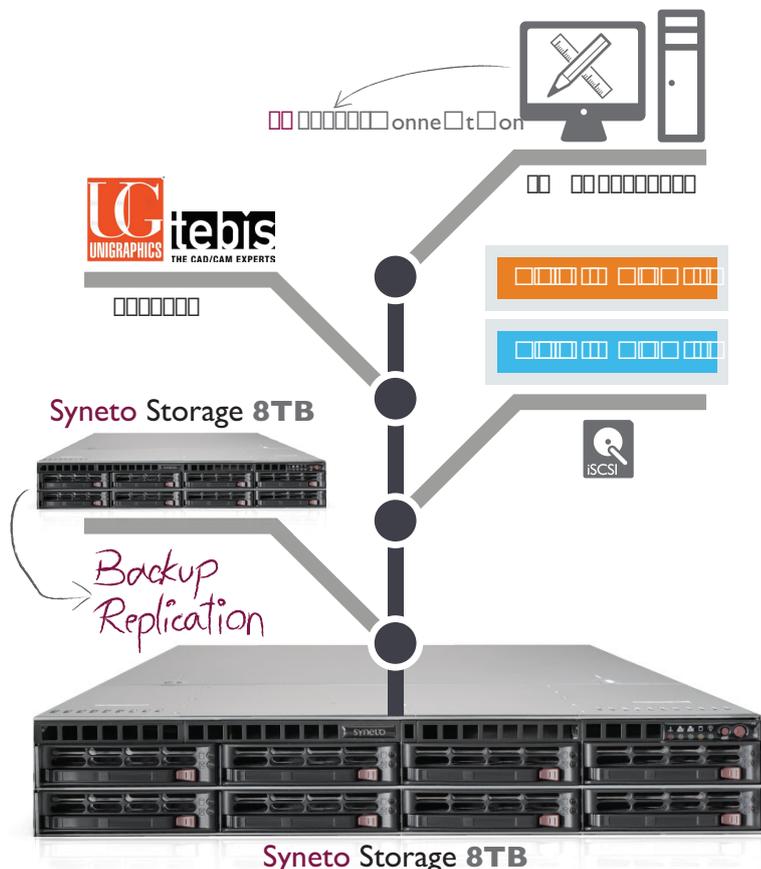
team.

No external IT reliance with Syneto Storage
By virtualising company servers, consolidating CAD/CAM software and ensuring Disaster Recovery with Syneto Storage, BMZ has eliminated the need for costly external IT help. Storage OS has a smart, simple interface which is easy to and configure, making the outside consultants redundant.

Their new solution also requires far less manpower to manage. Backups and Replication are automatic and do not require a shut down of the entire storage system or further attention after deployment.

The BMZ Moulds network diagram

Backup Replication

Syneto Storage **8TB**

Syneto Storage **8TB**

"BMZ believes in excellence and with the innovative solution from Antedata and Syneto my storage and IT infrastructure are in complete sync. with this philosophy"

Alfredo Zanola | Owner

Solution Components

- Syneto Office Storage 8TB
- Syneto Office Storage 8 TB
- VMware integration feature
- Active Directory integration feature
- Backup & Replication feature

Solutions

Syneto Storage can help you meet any data related goals within your organization:

Data Archiving

Data Backup & Recovery

Efficiency & Availability

Personal Data Cloud

Accelerate CAD Projects

Consolidate Data Storage

Virtualize with VMware

High Availability Cluster

Provide Cloud Services

Windows Storage

About Syneto

Here's why Syneto is such a reliable partner:

Deployment in 15 minutes

Simple to use systems

Great Tech. Support

Automatic updates

No hidden fees