

## LIBELLE – Disaster Recovery & High Availability

**Libelle Solutions** enables you to **reduce the risk of data loss, minimize application downtime**, and provide **amazingly fast error recovery** - easy to use and cost-effective.

They protect your **applications, databases, file systems** and **data center sites independent from the cause** and independent from the consequence of the incident: hardware failure, corrupt data, software error or human error.

At the same time, even the **distance and network** between your production and backup system **means no boundary**.

The secret is **the time-delayed data mirroring** with minimum bandwidth requirements.

Libelle provide a simplified way to handle the administration and failover without requiring specific in-depth know how.

- Continuous and consistent backup of your databases and file systems
- Automated failover process of applications and databases
- Quick error recovery after failover to the mirror system
- Continue to work with the last consistent set of data after a corruption
- Automatic allocation of virtual IP-addresses/hostnames
- Minimum manual intervention on an application level
- Very simplistic solution and extremely easy to operate

# Time-Delayed Data Mirroring

*Secure your business-critical Data optimal and cost-effective*

**IT systems are constantly threatened by application downtime and loss of data.** The threats are real and come from many directions. Not all of them can be avoided. The important question is: are you ready and prepared? How fast can you be back in business? If you experience a major incident, this becomes a challenging race against time.

**Today's replication tools are inadequate to provide full data and application protection.** Synchronous or near-synchronous data replication tools only protect against hardware failures (Hardware High Availability), but do not protect against software or user errors. Stretching the data replication tools to mirror over large distances helps to cover site failures (Disaster Recovery), but offers low data integrity and typically a poor Return on Investment (ROI). Manual backup and restore procedures provide the data integrity but lack reasonable Recovery Point and Recovery Time Objectives. In addition, the complexity of today's application landscapes requires in-depth know-how of the detailed system architecture to get the systems back to life.

## Products

- DBShadow.
- FSShadow.
- SwitchApplication.
- SMSCommander.
- MailShadow.

## Arguments, which convince!

The Libelle solutions make your High Availability and Disaster Recovery Architecture safe and sound. They close thus gaps, that classical systems (e.g. RAID/Cluster technologies), do not cover.

*Best in its Class Protection from the Consequences of:*

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- Corrupt or Deleted data
- Faulty software updates
- Human-errors
- Hardware problems
- Disasters and sabotage

*Protect your Business regardless of:*

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- Distance between production and mirror system
- Size of the systems
- Hardware and Applications in use

*Other Implementation Scenarios:*

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- Simplistic approach for building backup data centers
- Transparent monitoring of critical IT processes
- Automation of system refreshes by creating test databases/environments
- Planned fail-over to minimize planned downtime
- Backup from the mirror system without affecting production systems
- Reporting with production data on the mirror system
- Server move without downtime