IBM®

Butterfly Storage Environment Assessment

An IBM offer

Enabling organisations to fully realise their data protection reengineering strategies, and find new ways to drive greater value from storage software and hardware solutions.

IBM **Cloud & Smarter Infrastructure**

Butterfly®
AUTOMATED BACKUP DATA MIGRATION
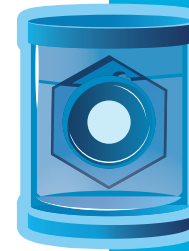
How well is your data protected?

Protecting data and ensuring a fast and accurate restore is no longer a simple task. Data volumes are growing at 50 - 60 percent per year, and legacy backup applications struggle to scale to meet this challenge.

Additionally, any number of point solutions such as replication, CDP, deduplication, snapshots and archiving, have all been introduced into the environment to meet specific data protection challenges, leading to strains on administration and complicating recovery processes.

It's no surprise that many organisations are planning to reengineer or replace their backup systems to address these challenges.

However, replacing a core piece of IT infrastructure such as the backup system is a large, complex and risky proposition, causing many organisations to pause or even delay implementation. Selecting a strategic backup and recovery management solution is critical and will impact the operational and financial effectiveness of the IT department for years to come.

Traditional assessment tools such as ROI (Return on Investment) calculators can provide a rough estimate of savings, but in many instances lack an empirical baseline of costs and don't provide much in terms of actionable information and risk analysis when planning a change in the backup infrastructure.

Data volumes are growing at

50–60%

per year
with legacy backup applications struggling to scale to meet this challenge.

IBM Tivoli® Storage Manager can reduce backup infrastructure costs

by up to 38%

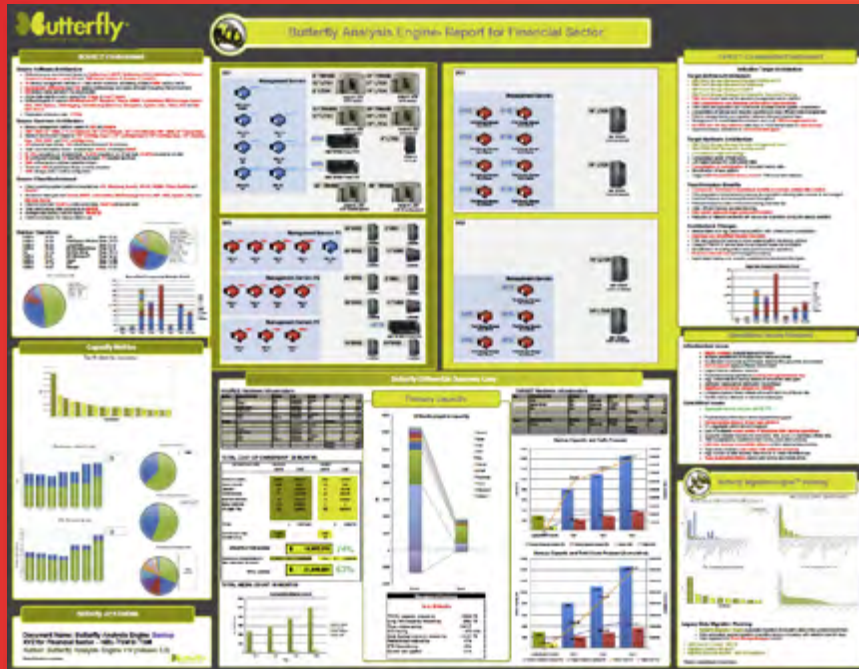**based on more than 450 Butterfly Analysis Engine Reports.**

Helping organisations meet today's and tomorrow's data protection challenges

Using IBM's Butterfly Analysis Engine, organisations will receive a complete analysis of their existing backup infrastructure and an automated solution for migrating to a new IBM Tivoli® Storage Manager (TSM) platform.

The Butterfly Analysis Engine includes a unique library that contains efficiency and effectiveness statistics for various storage, server and infrastructure setups and configurations. It provides a complete view of your existing data and infrastructure, and presents the findings in an easily understood format that allows you to assess the cost and risk implications by comparing both your current and the proposed Tivoli Storage Manager backup environments. This ensures you can confidently make migration decisions based on real empirical data.

Within minutes, Butterfly automatically scans and processes up to 4,000 raw data indicators, without the need for host agents. An example of the Butterfly Analysis Engine Report can be found on the next page.

*Mouse over the example **Butterfly Analysis Engine Report** below to see the components*

Do you have the full picture of your storage environment that allows you to plan ahead?

The Butterfly AER will enable you to develop your storage strategy by:

- Visualising the size and complexity of your current environment

- Highlighting risk and performance indicators across your complete storage infrastructure

- Directly comparing current and potential storage environments

- Using real, empirical data to uniquely show storage utilisation and growth without agents on hosts

- Recommending a target environment based on this bespoke mapping of your needs and current situation

- Delivering a roadmap for the consolidation and migration of all legacy data.

Key deliverables of AER:

Visibility of source environment and overheads

Backup capacity analysis

Discovery of architecture and configuration

Target environment benefits

Resolved operational issues

Business case and Total Cost of Ownership (TCO)

Manage your data resources more efficiently than ever before

Helping organisations meet today's and tomorrow's data protection challenges.

IBM Tivoli® Storage Manager is a data protection platform that gives organisations a single point of control and administration for storage management needs. It enables outstanding efficiency, simplicity and scalability for virtual, physical and cloud backup environments of all sizes.

With IBM TSM, organisations can expect to:

- reduce backup infrastructure costs by up to 38% (collective data from various Butterfly assessments)

- reduce footprint and backup storage requirements by up to 95%

- eliminate periodic full backups because of TSMs innovative, incremental 'forever' backup process

- include data reduction components and reporting tools (that most other vendors/ suppliers charge incrementally for)

- gain flexible deployment choices (including form factor and data volume based licensing)

- visualise the whole data backup infrastructure in an attractive graphical interface

- protect up to 300 terabytes of data and billions of objects, and ingest up to 20 terabytes per day of new or changed client data.

IBM Tivoli® Storage Manager is the most scalable data protection product on the market.

A single TSM server can protect up to

300 terabytes

of data,

billions of objects

and up to

20 terabytes per day

of new or changed client data.

Case Study: **TransGrid**

Based in New South Wales and having over 1,100 employees, TransGrid owns and operates a network of more than 12,000 kilometers of transmission lines with ratings up to 500kV of electricity, connecting generators of electricity to retail distributors.

Challenge

TransGrid outsources a majority of its IT support to a third-party provider, including support of its data storage and backup environments, which contain in excess of 400 TB of data. For a decade, the company managed the storage environment using two separate systems: IBM Tivoli® Storage Manager and a discrete tape-driven database backup solution. Having a dual environment contributed to high management costs and complexity. It also presented issues related to data duplication, resulting in capacity challenges, 6-hour backup windows and recovery times of more than one hour.

Solution

After evaluating many products, TransGrid deployed the IBM Tivoli® Storage Manager Suite for Unified Recovery offering, a single platform for data backup and recovery. The company simultaneously implemented an IBM Storwize® V7000 unit, a virtualised software-defined storage system designed to consolidate workloads onto a single storage system for easier management.

Benefits

- Decreased data recovery time by 400 percent

- Shortened data backup window by nearly 50 percent

- Improved system management by consolidating backup and recovery on a single system.

*This story is based on a specific customer case. IBM does not guarantee comparable results elsewhere.

"We've achieved a deduplication ratio of 5:1, so our recovery times have decreased by 400 percent, and with the incremental forever backup capabilities, we've shortened our backup window by almost 50 percent".

Stuart Barber
Information and Communications Technology Operations Manager TransGrid

Just three easy steps to get the ball rolling

1

Contact an IBM sales representative and ask them to set up a short call with our IT specialist, in order to better understand your current backup environment.

2

Our IT Specialist will then arrange a time to visit you and collect data from your backup servers, which they will load into our Butterfly engine. This will take approximately 15 minutes for each backup server.

3

Approximately 14 days from the collection date, the Butterfly engine will then process all data and generate a report outlining your current environment and any opportunity for improvement.

More information

To learn more about Butterfly, please contact your IBM sales representative or IBM Business Partner, or visit **www.butterflysoftware.net**

To learn more about IBM Tivoli® Storage Manager, visit **ibm.com/tivoli/products/storage-mgr**