

hp storage solutions

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business
blueprint

hp StorageWorks rapid backup for mySAP business suite for Oracle on HSG80 on Tru64

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executive summary

Enterprises deploy mission-critical SAP applications to meet today's business challenges. The availability of these applications across the organization becomes critical during backup and restore operations.

The HP StorageWorks Rapid Backup for mySAP Business Suite is a data protection solution for intricate SAP environments. It provides best practices for utilizing a business continuance volume to perform the backup operations of the SAP database. The solution is an integral part of an overall data protection strategy and has the following attributes:

- predictable: ensures no online backup downtime or minimal offline backup downtime
- high performance: causes minimal impact on application operations
- high availability: ensures availability of the SAP application
- scalable: meets different database sizes
- application aware: is integrated with the SAP application tool, BRBACKUP
- automated: invokes backup process upon initiation
- serviceable: receives implementation and maintenance by HP Services

business needs

To meet business needs, customers must:

- have accessible global business protection
- leverage information to maximize operations

Becoming bigger and more complex, companies can cover several sites in a variety of time zones. To SAP users, it is not just having access to the data in a reliable manner—it is also having access to the information that allows better decision making at a faster pace.

To achieve business velocity, an organization needs a sound business continuity strategy that allows it to reduce planned and unplanned downtime.

Even planned downtime costs money, and backing up data in the traditional manner—directly from a primary volume to tape—can take hours to complete, slow application performance, or require the business application to be taken offline. This solution enables customers to back up data to tape without affecting application availability and with minimal performance reduction.

The solution simplifies backup. Recovery of individual lost files can also be simplified for a database administrator.

**solution
summary**

This solution integrates SAP BRBACKUP tool and HP StorageWorks technology. Backup operations are completed using streaming backup data from a mirror copy (business continuance volume) instead of an original disk, which minimizes the impact on the production system and simplifies backup-operation management. This solution also provides for the rapid restore and recovery of individual data volumes. Customers can restore damaged files to their point of failure. By implementing this solution, the customer’s mean-time-between-failures is drastically reduced.

This solution is based on the capability of the modular arrays to create a clone of the data residing on the disk subsystem by performing a split mirror at the controller level.

The rapid backup solution delivers quantifiable business benefits, which are detailed in solution technical blueprints.

**return on
investment (ROI)**

solution feature	impact on SAP environment	ROI effect
<ul style="list-style-type: none"> Provides online or offline split mirror backup 	<ul style="list-style-type: none"> Minimizes downtime during offline backup operation Offers continuous access to data through online backup 	<ul style="list-style-type: none"> Improves business operations through accurate, programmable performance metrics
<ul style="list-style-type: none"> Provides data protection by granting the ability to rapidly restore individual data volumes 	<ul style="list-style-type: none"> Increases availability of critical business information used to run the enterprises 	<ul style="list-style-type: none"> Maintains business operations and revenue flow
<ul style="list-style-type: none"> Receives full integration, testing, and support by HP 	<ul style="list-style-type: none"> Mitigates business risk and prevents negative impact to business operations 	<ul style="list-style-type: none"> Reduces complexity and time-to-implement solution

solution description

This solution includes HP StorageWorks cloning technology and customizable scripts to automate backup operations of mySAP Business Suite environments. By performing backup operations from clones of SAP databases, online backup procedures eliminate any downtime and in an offline procedure customers can resume full operation of the SAP environment in minutes and reduce the amount of application downtime.

Because this solution can keep the application online during the backup process, users can access the database during the backup process, providing timely information to make informative business decisions.

How does it work? To begin, specific tools within the SAP application trigger the backup mode, which prepares data files for backup, thereby reducing the overall time required to run. With minimal performance impact to the application, access to the data is still available for use, ensuring business continuance. Traditional online backups would continually impact performance levels until the backup process was completed; however, with the rapid backup solution, a copy (business continuance volume) of the database is split off solving any availability issues. This copy performs the backup in place of the original database. The application returns to normal functionality with no impact to the system. In the background, the physical backup is performed on the backup system, streaming data from the business continuance volume while the SAP application runs at optimal performance. In addition, if recovery of an individual data volume is needed, the copy can reduce recovery time from hours to minutes. If an offline backup procedure is performed using this solution, the downtime of the application is reduced to less than 30 minutes.

hp solution overview

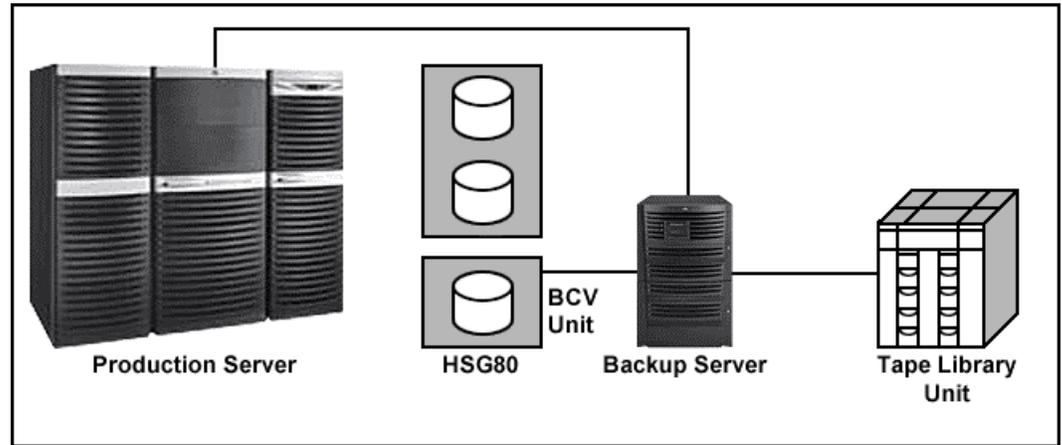


figure 1. rapid backup solutions setup

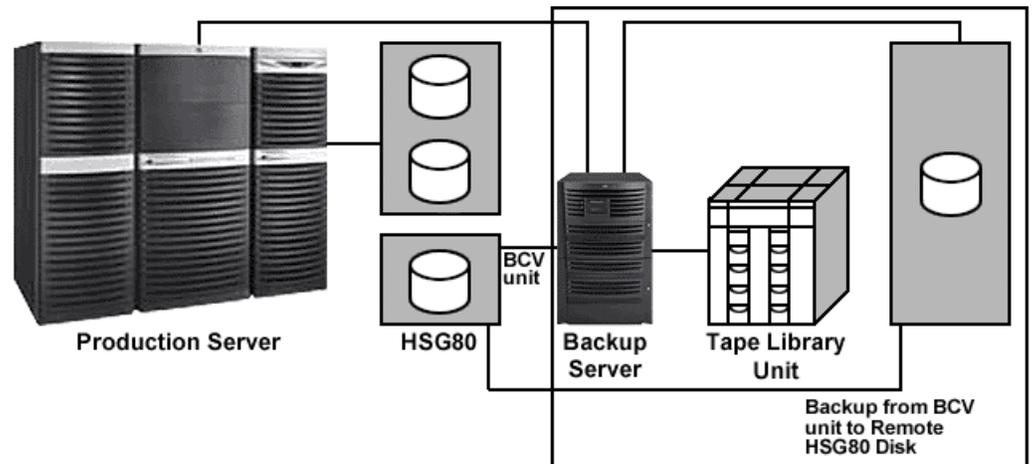


figure 2. rapid backup with remote storage setup

value proposition

- receives protection of business data against hardware and software failures, as well as human errors
- provides quick, complete, and automated backup of mySAP Business Suite data
- allows for a trouble-free deployment pre-tested and preconfigured for quicker installation or customization
- receives assurance of data integrity
- simplifies administration of individual file restore functions
- arrives engineered within SAP guidelines

services

- **SAP Basis engineers:** The HP Services organization has more than 1,000 SAP Basis-trained engineers who work with our SAP customers. Our HP/SAP specialists can help customers who have issues in their environment from both an HP and an SAP perspective—one of the reasons HP has won the SAP Award of Excellence six years in a row.
- **one-stop help:** Customers can call HP for any problems with their SAP environment.
- **call-to-repair support:** HP is the only vendor to provide a call-to-repair support agreement to ensure any problems in a customer's mission-critical environment are solved quickly and efficiently.
- **design and implementation services:** HP has SAP-trained and experienced consultants who provide designs and implementations specifically for the SAP mission-critical environment.

why hp

- **ensures continuous uptime** by systematically eliminating single points of failure across the board—from the hardware to the SAP application level. HP solutions for SAP provide instant, automated switchover for hardware, operating system, database, and SAP components, ensuring service continuity in the event of failure.
- **delivers security** with solutions that perform encryption for secure transactions and instant authorization and authentication checks.
- **prepares you for sudden load peaks** by keeping extra CPU and storage capacity on standby for instant activation whenever needed.
- **enables rapid deployment of mySAP.com solutions** because HP consultants, cooperating closely with SAP, use a structured approach based on SAP best practices to help customers design and implement the IT infrastructure that their enterprise needs to ensure a smooth, speedy rollout of mySAP.com solutions.
- **provides end-to-end control** of the entire mySAP.com environment with management tools and support services that manage every component, from hardware to application—even in distributed, Internet-based system environments.
- **enables faster recovery time** to ensure the customer's SAP environment is restored with minimal impact to their business.
- **provides the highest level of storage performance in the industry**, which contributes to higher productivity of the customer's SAP resources.

for more information

To learn more about HP storage solutions for SAP, contact your local HP sales representative or visit our Web site at www.hp.com/go/storage

To learn more about HP SAP alliance, visit our Web site at www.hp.com/go/sap

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