HP StorageWorks Rapid Backup for mySAP Business Suite for EVA

Business Blueprint

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> "The HP StorageWorks Rapid Backup for mySAP Business Suite is a data protection solution for intricate SAP environments."

Executive summary

For the majority of enterprises relying on mySAP Business Suite applications for their mission-critical processes, Oracle is the Relational Database Management System (RDBMS) of choice. To ensure the ongoing availability of these applications plus associated data to users across the organization, enterprises strive to minimize or even eliminate any impairment of Oracle availability during backup.

While a traditional backup typically implies hours of Oracle downtime or backup mode time, the HP StorageWorks rapid backup methodology for Enterprise Virtual Arrays (EVAs) returns Oracle to unimpaired availability within minutes.

The solution is an integral part of an overall data protection strategy and has the following attributes:

- **Predictable:** minimizes performance penalty typically associated with online backup; minimizes offline backup downtime to minutes rather than hours

- **High performance:** causes minimal impact on application operations

- **High availability:** increases availability of the SAP application

- **Scalable:** supports different database sizes

- **Application aware:** 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

Companies are becoming bigger and more complex, covering 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 with greater application availability and with minimal impact to performance.

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Solution summary

The SAP backup/restore functions are among the most critical operations in the production environment. Downtime or application performance penalty can be detrimental and cannot be tolerated. The business continuance volumes (BCVs) generated by the HP solution enable customers to back up their production database with minimum impact on database service levels. This solution integrates SAP application tools and proven HP methodologies. Backup operations are completed using streaming backup data from a virtual snapshot instead of an original disk. Because of this, the time that the database must be in backup mode is minimized (online) or downtime is minimized (offline) and backup operation management is simplified. By implementing this solution, the customer's mean-time-between-failures (MTBF) is drastically reduced.

The solution is based on the capability of HP EVAs to create a virtual snapshot of a LUN within the disk freespace of the disk subsystem.

Return on investment (ROI)

Solution feature	Impact on SAP environment	ROI effect
• Provides online or offline backup using replicated volumes	• Minimizes downtime during offline backup operation • Reduces online backup time database must be in backup mode	• Improves business operations through accurate, programmable performance metrics
• Integrated with SAP tool BRBACKUP	• Offers integrated point-in-time backup with minimal performance impact on business applications	• Maintains business operations and revenue flow
• Receives full integration, testing, and support by HP	• Mitigates business risk and prevents negative impact to business operations	• Reduces complexity and time-to-implement solution

Solution description

This solution includes HP StorageWorks local replication technology and customizable scripts to automate backup operations of mySAP Business Suite environments. By performing backup operations from point-in-time copies of SAP databases, online backup procedures reduce the time the application must be in backup mode and an associated performance penalty. In an offline procedure, customers can resume full operation of the SAP environment in minutes and reduce the amount of application downtime, which is typically measured in hours.

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 (BCV) 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 BCV while the SAP application runs at optimal performance. If an offline backup procedure is performed using this solution, the downtime of the application is reduced to less than 15 minutes.

Value proposition

- Receives protection of business data against hardware and software failures, as well as human errors

- Provides quick and automated backup of mySAP Business Suite data

- Allows for a trouble-free deployment pretested and preconfigured for quicker installation or customization

- Receives assurance of data integrity

- Arrives engineered within SAP guidelines mitigating risks

Services

- **SAP Basis engineers:** The HP Services organization has more than 1,000 SAP Basis-trained engineers who work with HP SAP customers. 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 problem 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.

- **Enables rapid deployment of mySAP Business Suite 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 Business Suite solutions.

- **Provides end-to-end control** of the entire mySAP Business Suite environment with management tools and support services that manage every component, from hardware to application—even in distributed, Internet-based system environments.

- **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, 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

To learn more about HP's offering, visit **www.hp.com**.

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