SAP® Sybase® Replication Server® Delivers Near-Zero Downtime for SAP® Business Suite
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## Quick Facts

### Summary
SAP® Sybase® Replication Server® provides a near-zero downtime disaster recovery solution for SAP® Business Suite users running on SAP® Sybase® Adaptive Server® Enterprise (SAP Sybase ASE). This powerful data management tool overcomes the limitations of traditional high availability disaster recovery (HADR) solutions to eliminate both planned and unplanned downtime. This functionality is built into the SAP Sybase ASE runtime license for SAP Business Suite at no additional cost.

### Business Objectives
- Eliminate downtime – whether planned or unplanned – that negatively impacts productivity and service-level agreements and is unacceptable for mission-critical business applications
- Avoid limitations of traditional HADR approaches that can result in data loss and downtime for users of SAP Business Suite
- Increase business and IT efficiency

### Solution
- Continuous, near real-time data replication
- Maintenance of warm standby databases
- Nonintrusive capture of transactions from the database log as it commits new transactions
- Automatic failover and failback enabled
- Failback to the primary site allowed when operation is restored
- Both on-site and remote backup of data

### Benefits
- Maintain the integrity of your transactions
- Replicate your business-critical data in real time to prevent data loss
- Avoid the high cost of both planned and unplanned application downtime
- Reduce downtime during failover with a warm standby database
- Maintain superior application performance of SAP Business Suite
- Safeguard data in multiple locations
- Integrate with existing SAP tools to go live quickly and simplify management

### Learn More
Call your SAP representative, or visit us online at [www.sap.com](http://www.sap.com).
Achieve Near-Zero Downtime for SAP Business Suite Running on SAP Sybase ASE

It has never been more critical to minimize the financial impact of downtime, meet service level agreements, and keep your mission-critical SAP® Business Suite applications running. SAP® Sybase® Replication Server® – a near-zero downtime disaster recovery solution certified for SAP Business Suite running on SAP® Sybase® Adaptive Server® Enterprise (SAP Sybase ASE) – addresses these challenges head-on. It aligns with the SAP Business Suite roadmap and is included with your existing SAP Sybase ASE runtime license for SAP Business Suite.

SYNCHRONIZE YOUR MOST IMPORTANT BUSINESS DATA IN REAL TIME

Legacy high availability disaster recovery (HADR) tools have inherent limitations that can result in damaging downtime. Backup – whether batch- or trigger-based – doesn’t operate in real time, which can result in data loss in the case of a fail over. Log shipping – the process of backing up database log files from a primary server and then restoring them manually on a backup server – is a cumbersome, resource-intensive task in terms of staff time and infrastructure. And disk-level replication has distance limitations and produces a “cold standby.” Even worse, disk-level replication can propagate corruption from your primary site – rendering your secondary site unusable in an emergency.

SAP Sybase Replication Server overcomes these limitations to deliver a warm standby that is updated continuously, in real time. This market-leading data movement tool can eliminate data loss as well as most planned and unplanned downtime, and has been deployed and proven in more than 3,000 enterprises.

With SAP Sybase Replication Server, your mission-critical business data will be seamlessly synchronized in the background to your target database, minimizing work disruptions. By creating an always-updated warm standby environment, you can continue to operate SAP Business Suite applications at full speed, even in the event of a problem with your primary database.

SAP Sybase Replication Server addresses the data management needs of many enterprises with complex infrastructures. Cargill Incorporated – one of the largest privately held companies in the U.S. – had to deploy and maintain 80 servers from 1,200 client desktops. “On a typical day, we’re moving a gigabyte of data back and forth across our enterprise and are running about 8,500 reports an hour,” says the manager for the Database Administrator Group, Cargill Grain Division. “We simply couldn’t do this effectively without SAP.” By using SAP Sybase Replication Server to keep data synchronized across the enterprise, Cargill reduced IT operating costs from $42 million to $13 million USD.¹

AVOID THE HIGH COST OF APPLICATION DOWNTIME

IT departments invest a lot of time and energy preparing contingency plans for unplanned downtime. But it’s estimated that 90% of downtime is actually planned as a result of processes such as software and hardware upgrades.² SAP recently certified the disaster recovery (DR) functionality offering for SAP Sybase Replication Server for SAP Business Suite running on SAP Sybase ASE. SAP Sybase Replication Server reduces planned and unplanned downtime to near zero by facilitating automated failover to a warm standby database that has up-to-date data, see Figure 1.

Using high-speed transactional replication, SAP Sybase Replication Server enables real-time failover that lets you avoid the negative cost implications and business risks of planned or unplanned downtime during system disruptions such as software upgrades, hardware failures, power outages, natural disasters, or human error.
The limitations of HADR functionalities can cause more than just downtime and potential data loss. They can also create overhead on your source databases, forcing your end users to accept slower SAP Business Suite application performance levels.

SAP Sybase Replication Server avoids hindering the performance of your business applications by replicating changes – as they happen – directly from the log and not your applications. The solution requires no modification of your source database, and as a result, the primary database and SAP application performance will not be affected.

Once your system operations are restored, SAP Sybase Replication Server makes it easy to failback to your primary database. You can simply reverse the direction of replication to immediately bring your primary database up-to-date. These failover and failback processes are automated by tight integration with SAP Sybase ASE and SAP Business Suite – made possible because the disaster recovery technology of SAP Sybase Replication Server is designed by SAP.

With this DR functionality, you can prevent the loss of transactions or data during a disaster or network outage. You can even set up SAP Sybase Replication Server to support different recovery options to better align with your organization’s unique needs.
Ensure Transactional Integrity and Simplify Management with SAP Sybase Replication Server

**PROTECT THE INTEGRITY OF MISSION-CRITICAL TRANSACTIONS**

To increase auditability across the enterprise and help ensure regulatory compliance, it’s essential to consistently maintain the integrity of your transactions. But many HADR techniques can’t guarantee this level of integrity because they only capture the net results of changes to the database. These techniques leave out key interim steps, frequently require time-intensive schema and system changes, and can significantly decrease accuracy and hamper auditing processes.

SAP Sybase Replication Server is the only replication tool that can ensure the transactional integrity necessary to meet stringent internal and external controls. Because it replicates from the database log, SAP Sybase Replication Server maintains a clear trail of all data and transactions. Based on the solution’s unique ability to execute all transactions on the target side, in the same sequence as on the source side, you can achieve unprecedented levels of accountability.

**SAFEGUARD DATA IN MULTIPLE LOCATIONS**

There’s no such thing as a “one-size-fits-all” business continuity plan. While another organization may rely exclusively on remote backup, you may require a mix of remote and onsite backup locations. And as time passes, your needs may change – so your technology must be flexible enough to support these changes.

SAP Sybase Replication Server allows for both onsite and remote backup of data. Free from the distance limitations of disk-level replication, you can store data at geographically distant sites to better meet the demands of your business.

**STREAMLINE DEPLOYMENT AND MANAGEMENT ON SAP SYBASE ASE**

Setup and administration of SAP Sybase Replication Server is designed to be simple for companies using SAP Business Suite on SAP Sybase ASE. Because the solution is fully integrated with the installer provided by SAP, the DR agent for SAP Sybase Replication Server can easily set up a disaster recovery environment with a primary and secondary site. SAP Sybase Replication Server can even support servers that are configured on separate hosts (for example, with SAP Sybase ASE on one host and SAP Sybase Replication Server on another). You can also automate the materialization process with the DR agent through integration with the installer.

Once you go live, it’s also easy to manage and monitor the solution. Due to the tight integration with SAP tools, ongoing management and monitoring is accomplished through your existing SAP components. This means you can easily setup a disaster recovery environment with the installer and closely track the health of your replication – including the availability of servers, connections, and routes – as well as replication latency and resource utilization with the built-in DR agent.

SAP Sybase Replication Server reduces planned and unplanned downtime to near-zero by enabling automated failover to a warm standby database that has up-to-date data. With operations restored, you can easily failback to your primary database by reversing the direction of replication.
Maximize the Return on Your SAP Infrastructure Investment

CONCLUSION

SAP Sybase Replication Server enhances the value of your SAP Business Suite investment – while minimizing the cost implications and business risks of downtime – by providing near-zero disaster recovery for high-speed transactional replication environments. Because the solution is built on SAP technology, it works with your entire SAP product suite to give you a greater return on your existing SAP infrastructure. And because SAP Sybase Replication Server, enterprise edition – along with advanced services and a data assurance option – is included with your SAP Sybase ASE runtime license for SAP Business Suite, this powerful and flexible functionality is available at no additional cost.

Learn more today. Contact your SAP representative to find out how to get started with SAP Sybase Replication Server.

“On a typical day, we’re moving a gigabyte of data back and forth across our enterprise and are running about 8,500 reports an hour. We simply couldn’t do this effectively without SAP.”

Manager, Database Administrator Group, Cargill Grain Division

FOOTNOTES

1. SAP Customer Success Story: Cargill Inc.