

Objectives

Solution

Benefits

Quick Facts

SAP Solution Brief

SAP Technology | SAP Adaptive Server Enterprise

Get a High Performance, Cost-Effective Database **for SAP® Business Suite Applications**



Run Simple



A database for SAP® Business Suite Applications

As an essential cornerstone for your core business applications, your database needs to provide the highest possible throughput while safeguarding vital information. Optimized for SAP® Business Suite applications, SAP Adaptive Server Enterprise® (SAP ASE) provides a fully integrated transactional database that helps **improve operational efficiency and reduce overall costs**.

A database for SAP Business Suite Applications

As companies seek to streamline operational overhead, the most effective databases are those that are easy to administer and don't require extensive staffing. Central to your enterprise's daily operations, SAP Business Suite applications rely on the underlying relational database management system (RDBMS) for a core set of essential functionalities. The software is only as steady as the database that supports it. Your database must provide the highest possible availability while keeping pace with a fluctuating number of users and the overall data

volumes they generate. Thus, it should provide predictable service levels for throughput, costs, uptime, and administration.

Thanks to its steadfast uptime and the flexibility to handle the most diverse workload profiles, SAP ASE is an excellent fit for SAP Business Suite. SAP ASE can produce extremely competitive performance levels, yet it offers efficient administration that requires fewer database administrators (DBAs) to manage it.

Grow the business with faster performance and scalability

To achieve higher levels of scalability, your database infrastructure should use existing resources more efficiently, rather than require you to purchase additional resources. For more than 30 years, SAP ASE has been a source of database innovation. Its threaded-kernel architecture, memory-management capabilities, and compression technology demonstrate impressive performance and scalability results for customers. Recent SAP standard application benchmarks show that SAP ASE matches or outperforms other database platforms that support SAP Business Suite for transactional workloads.¹

The platform's innovative features enable more predictable and consistent outcomes by freeing the database engine from performing input/output, network, and other potentially time-consuming activities. To further enhance performance, you can increase the amount of data managed in main memory, improve CPU utilization, and execute query plans in parallel. Plus, our latest memory architecture equips SAP Business Suite applications with instant responsiveness and significantly higher throughput for faster query execution and response times.

Grow the business with faster performance and scalability

Maintain business continuity and shield from threats

Simplify system management

Significantly lower overall costs

1. SAP standard application benchmarks, global.sap.com/solutions/benchmark/sd2tier.epx

Maintain business continuity and shield from threats

SAP ASE provides powerful data replication and multifaceted security – key functions that help provide the dependability and 24x7 uptime expected by customers of SAP Business Suite.

Replication technology in SAP ASE enables a near-zero downtime disaster recovery solution for your SAP applications. Comprehensive security features satisfy the most demanding requirements – all without degrading performance or imposing

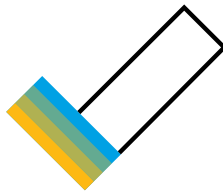
unnecessary administrative overhead. At rest, data is encrypted on disk, and full database encryption is available for additional safeguarding of sensitive information. SAP ASE encryption is transparent to applications, and no code changes are necessary. Additionally, extensive authentication functionality includes de facto industry-standard lightweight directory access protocol (LDAP) authentication, which makes it easier for your DBAs to administer multiple servers.

Grow the business with faster performance and scalability

Maintain business continuity and shield from threats

Simplify system management

Significantly lower overall costs



95%

Lower unplanned downtime
than other database systems²

2. IDC White Paper, sponsored by SAP, "ROI Study: The Case for SAP ASE Database Solutions," February 2017.

Simplify system management

An ideal software environment is one in which the application software and underlying database work well together by design. A cohesive design helps eliminate surprises such as implementation problems, operational headaches, and technical support confusion.

Implementing SAP ASE with SAP Business Suite is straightforward and simplified with the automated setup and configuration of the database and application. An administrator cockpit – a single tool for

the management of application and database – reduces the complexity of running your systems, and it provides a role-based visual interface that helps you keep a watchful eye on all your application and database operations. The cockpit is pre-configured for easy use, or you can personalize the interface to suit your needs. Additionally, the automation of key administrative tasks – such as database tuning, scheduling, and end-to-end error alerting – all contribute to further enhancing DBA productivity and lowering administrative overhead.

Grow the business with faster performance and scalability

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Simplify system management

Significantly lower overall costs



37%

Less DBA time to deploy and manage SAP ASE installations³

3. IDC White Paper, sponsored by SAP, "ROI Study: The Case for SAP ASE Database Solutions," February 2017.

Significantly lower overall costs

In a recent SAP-sponsored report,⁴ IDC studied the total costs of seven database sites that use both SAP ASE and one or more other vendors' RDBMS products. The study compares SAP ASE costs with those of the other RDBMSs on a case-by-case basis. The results? For these organizations, SAP ASE has a significantly lower total cost of operations than other databases – 36% lower over five years – in terms of licensing and server costs, DBA staff-time costs, and productivity costs associated with unplanned database outages.

The combination of SAP ASE and SAP Business Suite offers an impressive price-performance ratio. Procuring your database and application from a single vendor enables economy of scale pricing, which helps reduce total direct costs. A threaded-kernel architecture makes better use of hardware, so you can run more workload on less hardware. Moreover, storage compression technologies can reduce the size of the raw SAP ASE database by up to 75%, saving on storage expenses. These features help to optimize operations with a minimum of staff and lower overall costs.

Grow the business with faster performance and scalability

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Operational efficiencies propel
higher business value.

4. IDC White Paper, sponsored by SAP, "ROI Study: The Case for SAP ASE Database Solutions," February 2017.

A proven database with exceptional value

Deploying strategic enterprise application software such as SAP Business Suite can be a considerable undertaking. An essential foundation for successful deployment of the software is the RDBMS. SAP ASE offers proven benefits for transaction-intensive applications from SAP.

According to the SAP-sponsored ROI study by IDC (February 2017), businesses that run SAP ASE realize distinct business value relative to other relational database management systems – an average five-year ROI of 251% with an 11-month payback period. The value is derived from more efficient IT and DBA operations, increased user productivity, higher revenue, reduced operations impact of unplanned outages, and more cost-effective database operations.

A proven database with exceptional value



US\$2.46 million

Per year per organization
in **higher revenue**⁵

5. IDC White Paper, sponsored by SAP, "ROI Study: The Case for SAP ASE Database Solutions," February 2017.

Summary

For your business to create and sustain a competitive advantage in the face of exponential data growth, your database management systems must address key challenges in the areas of performance, reliability, and efficiency. SAP® Adaptive Server® Enterprise (SAP ASE) offers a high-performance database platform optimized for SAP Business Suite applications. SAP ASE helps improve operational efficiency and reduce total cost of ownership (TCO).

Objectives

- Deliver high levels of system uptime
- Protect vital enterprise information
- Support increasing numbers of users, transactions, and data volumes
- Administer the system with minimal hardware and personnel overhead
- Manage applications and data cost-effectively

Solution

- Comprehensive data protection without application changes
- Sophisticated memory management for automatically delivering scalable high performance
- Integrated tooling, simplifying administrative responsibilities
- Efficient administration for greater DBA productivity and lower costs

Benefits

- Quickly process millions of transactions per minute on large and growing databases
- Enable predictable service levels in dynamic environments
- Reduce TCO through efficient use of storage, processor, and staff resources
- Adapt to changing needs with flexible architecture

Learn more

For more information, call your SAP representative or visit us at www.sap.com/ASE.



Studio SAP | 52092enUS (17/06)

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