

Modernize Transactional Applications with Trusted, Efficient Data Management



The Best-Run Businesses Run SAP®

Heighten performance and efficiency for transactional systems

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To create a competitive advantage in the digital economy, companies need applications that reliably process millions of transactions on premise and in the cloud. SAP® Adaptive Server® Enterprise (SAP ASE) delivers cost-effective and trusted data management to help [modernize transaction-intensive applications](#) with high performance, continuous availability, and efficiency.

Digital businesses are facing exponential data growth in a hyperconnected world. Applications that process transactions under extreme conditions are now commonplace. For example, stock markets are handling millions of transactions a day, and online retailers are seeing a huge rise in e-commerce transactions.

In response to recent growth in data and users, transactional systems must meet new challenges in the areas of performance, reliability, and efficiency. SAP ASE provides a high-performance database that can help you

dependably and affordably capture, store, and manage data generated from millions of business events occurring every minute of every day.

SAP ASE is designed to meet the demands of the digital economy. With recent innovations, you can accelerate business growth as millions of transactions are processed more quickly, protect customer and partner data against common threats, and increase profitability through operational efficiencies.



Accelerate transactional processing to build business value

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Maintain business continuity and shield from threats

Simplify data management on premise and in the cloud

Innovate with a choice of deployment options

SAP ASE helps ensure high performance and reliability. It delivers capabilities that process and protect millions of transactions housed in terabyte-size databases while lowering the total cost of ownership.

Innovative features free the database engine from performing input/output, network, and other potentially time-consuming activities for more predictable and consistent outcomes. 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, the SAP ASE, enterprise edition, database MemScale option, equips applications with instant responsiveness and significantly higher throughput by using the latest memory architectures for faster query execution and response times.

Processing and analyzing transactions quickly yields tremendous benefits such as detecting fraud more quickly, finding insightful patterns in customer behavior, or delivering more personalized promotions.



SAP ASE is designed for high-performance transaction-based applications involving massive volumes of data and thousands of concurrent users.



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Data replication, encryption, and security technologies built into SAP ASE protect your data from unexpected disruptions and security breaches from within and outside the organization. That means you can keep your service levels consistent and your data secure at all times – whether in transit, when accessed, or while at rest.

To help your business meet security and privacy requirements, SAP ASE employs state-of-the-art, column-level data encryption

as well as full database encryption. Full database encryption complements column-based encryption and provides a straightforward approach to protecting all information in the database without affecting existing applications or running workloads.

With the SAP ASE, enterprise edition, database always-on option, you can run 24x7 global operations with a unified high-availability and disaster-recovery architecture, rolling upgrades, and automatic application failover.



SAP ASE helps deliver zero data loss and zero downtime to help ensure continuously available business operations.



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By simplifying data management, digital businesses achieve lower costs and improved efficiencies while coping with rapid data growth, high transaction volumes, and large numbers of users. Advanced in-database compression of both structured and unstructured data allows you to store data more efficiently, which reduces storage costs. And because data retrieval is more efficient, better performance is realized.

SAP ASE enables you to preanalyze the impact of extreme workloads on software systems. With the SAP ASE, enterprise edition, workload analyzer option, you can capture a workload

from a production system, replay it on a testing environment, and quickly analyze the impact of configuration changes on application performance.

As a cloud-ready solution, SAP ASE offers the flexibility to remain agile and competitive on SAP HANA® Cloud Platform, Amazon Web Services, and other cloud technologies. In addition to a wide range of options for cloud deployment, flexible licensing incorporates SAP ASE, SAP IQ software, and SAP Replication Server® in a single licensing model to meet your particular needs.



SAP ASE is ultraefficient, reducing administrative tasks and freeing up resources for more strategic initiatives.



Innovate with a choice of deployment options

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To meet your specific requirements, SAP ASE can be extended with these options:

Option	Description
SAP HANA® accelerator for SAP® Adaptive Server® Enterprise (SAP ASE)	<ul style="list-style-type: none"> • Accelerate reporting capabilities of SAP ASE • Build analytical applications on the SAP HANA platform
SAP ASE, enterprise edition, database MemScale option	<ul style="list-style-type: none"> • Improve the efficiency of SAP ASE in high-core-count machines • Speed query execution and response times with the latest memory architecture
SAP ASE, enterprise edition, database always-on option	<ul style="list-style-type: none"> • Help ensure high availability and disaster recovery in a unified architecture • Accelerate failover for planned and unplanned downtime
SAP ASE, enterprise edition, partitions option	<ul style="list-style-type: none"> • Manage large data volumes by dividing them into smaller, more-manageable pieces • Improve query performance with faster data retrieval
SAP ASE, enterprise edition, encrypted column option	<ul style="list-style-type: none"> • Secure data with granular native data encryption • Protect your data in transit, when accessed, or while at rest
SAP ASE, enterprise edition, compression option	<ul style="list-style-type: none"> • Reduce storage costs • Improve performance by compressing relational and unstructured data
SAP ASE, enterprise edition, workload analyzer option	<ul style="list-style-type: none"> • Diagnose problems and manage configuration changes proactively • Capture, analyze, and replay production workloads in a nondisruptive manner

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Objectives

Solution

Benefits

Quick Facts

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Several editions of SAP ASE are also available to provide greater flexibility for deployment and use:

- **SAP Adaptive Server, platform edition** – Secure deployment flexibility by incorporating SAP ASE, SAP IQ software, and SAP Replication Server in one licensing model.
- **SAP ASE, enterprise edition** – Power mission-critical database management systems for a single node environment.
- **SAP ASE Cluster Edition** – Deliver an enterprise solution for database deployments across a shared-disk cluster.

- **SAP ASE, Edge edition** – Enable solutions for smaller database deployments and applications with a limitation of four cores.
- **SAP ASE, developer edition** – Take advantage of a free download for development environments (limited to one database engine and 25 concurrent connections).
- **SAP ASE, express edition** – Access a free download for development and deployment on limited configurations (limited to one database engine up to 5 GB).



Drive value with faster, more-efficient transactional systems

Drive value with faster, more-efficient transactional systems

Essential transactional systems that drive your business must address key challenges in the areas of performance, reliability, and efficiency. SAP ASE captures, stores, and manages data generated from millions of business events that are generated every second of every day – with greater reliability and affordability.

SAP ASE delivers proven benefits for transaction-intensive applications from SAP, our partners, and custom solutions. In fact, businesses that run SAP Business Suite applications on the SAP ASE database have realized distinct cost and performance benefits relative to other relational database management systems, including a 31% reduction in infrastructure costs, higher productivity among IT staff, and improved quality of service due to an 89% reduction in downtime.¹

US\$243,000

Saved per 100 users over five years¹

FOOTNOTE

1. Carl W. Olofson and Randy Perry, "Reducing Costs While Simplifying Administration: Monetizing the Benefits of SAP ASE," IDC, June 2014.





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Summary

SAP® Adaptive Server® Enterprise (SAP ASE) is a high-performance database management system designed to handle massive volumes of data and thousands of concurrent users in the cloud and on premise. Maintain the performance and availability needed for mission-critical transaction processing. Reduce administrative tasks to free up resources for more strategic initiatives.

Objectives

- Process millions of transactions quickly to accelerate business growth
- Protect customer and partner data against common threats and disasters
- Lower costs and increase profitability through operational efficiencies

Solution

- In-memory computing that reduces latency for multiuser, mission-critical applications
- Unified architecture for disaster recovery and high availability
- Simple, sophisticated administration to reduce operating costs and enable innovation

Benefits

- Achieve fast performance at extreme transaction volumes
- Deliver critical security and trusted reliability
- Improve efficiency and lower overall IT costs

Learn more

To find out more, call your SAP representative today or visit us online at www.sap.com/ase.



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