



Composable ERP Transformation

Over the past ten years there has been more than just a digital transformation in the ERP sector. A new orchestration of the entire IT landscape has given rise to new combinations in hardware, middleware, and software. Many black box systems have been replaced by hybrid architectures and composable IT. Oracle is at the forefront of this development with an extremely broad range of solutions.

By Peter M. Färbinger

n recent years, IT departments have evolved from internal service providers to key players in digital transformation. IT infrastructure must continuously adapt to current business requirements. IT must respond to two key business requirements: accelerating transformation through the development of digital innovations and enabling the process and IT landscape for cross-system cross-company data exchange. Only a few ERP users have a technology stack that supports their business requirements. Many companies are therefore placing a high priority on application modernization. At the same time, ERP users complain that application modernization is not being given enough priority. One reason for this could be that responsibility for IT budgets lies mainly with CEOs and CFOs, even though IT is the driving force behind modernization.

Disruption and Composability

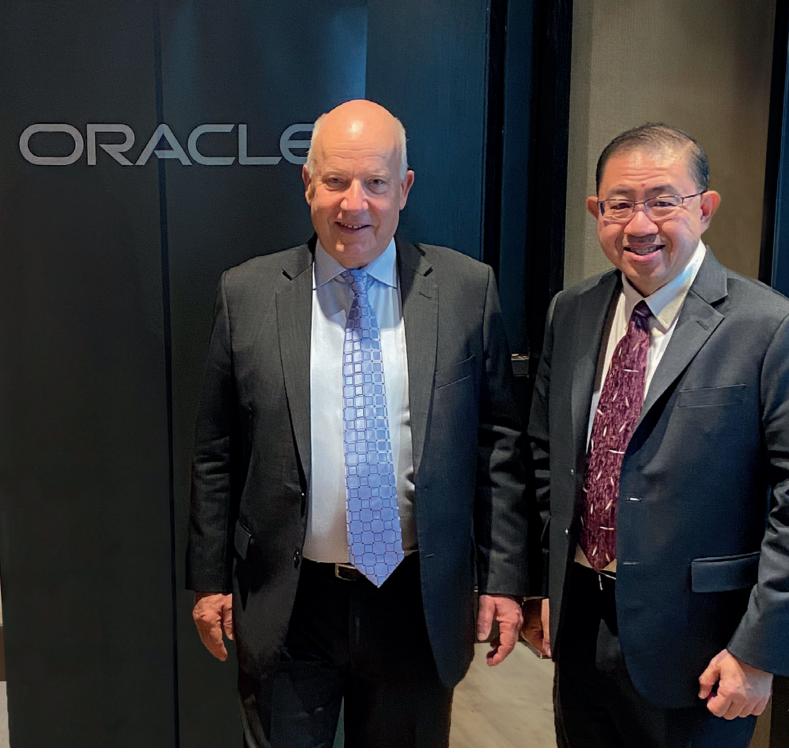
The use of current technologies such as AI is currently only a driver for IT modernization for selected ERP users. This is because many companies are still in the early stages of introducing disruptive technologies and first need to lay the foundations for using AI effectively. However, many ERP users believe that AI and IT platforms will help their companies modernize their applications in a better and more timely manner.

It is surprising that only a few companies have already defined a precise ERP strategy for implementing application modernization. IT modernization is not just an IT issue, but also a business one. It is therefore crucial to reconcile the differrent interests and perspectives and develop a common strategy that delivers the greatest benefits for all stakeholders. It should be noted that there is no universal solution. As a rule, different modernization strategies are used depending on the application. A comprehensive analy-

sis of the current state and IT architecture is essential for making an informed decision. It is also crucial that decision-makers within the company recognize the relevance of IT modernization as a decisive factor for future business success.

"While SAP is currently the world's leading ERP provider, there are many other providers expanding their market share in the same market," emphasizes Gerhard Kuppler, Oracle Vice President SAP Alliances. "At Oracle, we believe we offer the industry's broadest choice of deployment platforms: on-prem, in the cloud, and hybrid. We are also the leading provider of multi-cloud implementations in the market, where our Oracle Cloud Infrastructure, Oracle Database@Azure, Oracle Database@AWS, and Oracle Database@GCP enable customers to choose the deployment platform that best suits their needs. And with this multi-cloud design built into our products, customers are not locked in and have the flexibility to move from one platform to another as their needs change. In AI, we offer not only LLMs, but also the industry's leading Al infrastructure with the latest GPUs in a SuperCluster with up to 131,072 GPUs." (see graphic on page 5)

IT analyst Gartner has identified twelve emerging technical disruptions that will significantly shape the future of business systems. IT decision-makers should give these developments top priority over the next five years, as they not only offer short-term competitive advantages but will also establish themselves as the standard in companies in the long term. "Technology leaders need to act now to gain early competitive advantage from these technologies," said Bill Ray, distinguished VP analyst at Gartner. "Innovative advances such as GenAlenabled code architectures, disinformation security, and Earth intelligence are creating the differentiation needed to secure a decisive advantage in areas such



From lefto to right: Gerhard Kuppler, Vice President SAP Alliances, Oracle and Kuen Sang Lam, Senior Director – Global SAP on Oracle Cloud Infrastructure and Technology, Oracle.

as data processing and product offerings."

The transformation of organizations is an increasingly demanding challenge. Currently, the development of AI in particular is leading to greater complexity in IT landscapes and making it more difficult to implement digital transformation projects. The development of new technologies makes it clear that company digitalization should not be viewed as a singular project. Rather, it is a process that is often slowed down by outdated system landscapes, as these do not grow with the company and thus limit agility and innovation.

"Since R/3 Release 1," explains Gerhard

Kuppler in an exclusive interview with E3, "we have been working closely with SAP to simplify and streamline IT operations for SAP systems, from the early days of the SAP DBA tool to the BR tools used today to manage Oracle databases for SAP systems. Over time, we have added support for more and more features of the database product, as well as additional database options that address complex customer requirements for security, reliability, scalability, and performance."

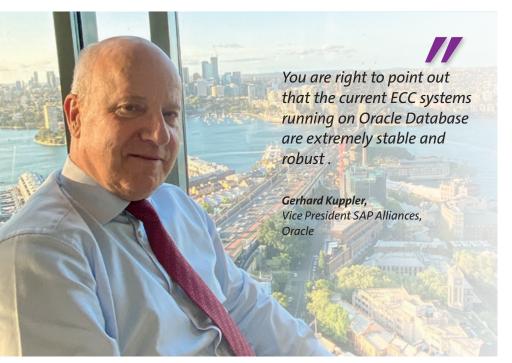
ERP requirements

The Oracle database meets these requirements with the following options:

Advanced Security for encrypting data at rest and in transit; Advanced Compression for reducing storage size and improving performance; Database Vault for role separation and control of data access rights; Active Data Guard for easy and seamless disaster recovery failover; Oracle Database In-Memory for column-based in-memory processing to improve analytical processing; and finally, Real Application Clusters for active-active high availability clustering.

Exadata technology (on-prem, in the cloud, and hybrid) can be particularly beneficial for SAP customers to create an optimal environment for running the Oracle database that underpins SAP sys-





tems. With the Zero Data Loss Recovery Appliance (on-premises or as a cloud service), SAP customers can manage SAP systems of any size quite easily and in a time-saving manner.

Many of the largest SAP customers use the above solutions (e.g., Loblaw in Canada with 180TB and Cencora (Amerisource-Bergen) in the US with more than 100TB). These are good testimonials for running SAP on Oracle Cloud. However, many ERP users are still in the early stages of identifying use cases. Companies that actively work with AI will have a competitive advantage over those that do not use AI in the future. At the same time, there are a number of challenges to consider during implementation, from shadow AI to compliance issues. This tension between risks and regulations must be resolved. In Germanspeaking Europe, generative AI is less of a strategic consideration and more of a practical implementation. This empowers specialist departments, but also raises complex questions regarding access

"SAP has announced that it intends to discontinue extended support for SAP Business Suite at the end of 2030," points out Gerhard Kuppler, Oracle VP SAP Alliances. "Our current Oracle Database 19c has an extended maintenance end date till the end of 2032. We plan to certify Oracle Database 23ai for SAP Business Suite as soon as it is released for all platforms.

This will push the support date for Oracle Database even further. It will depend on whether SAP listens to its customers, who continue to rely on the

stable SAP Business Suite for a much longer period of time." Gartner analysts have predicted that by 2030, more than 40 percent of current SAP ECC customers will still be using ERP/ECC 6.0 (SAP Business Suite 7) for key business areas.

Investment Report 2025

In 2025, the German-speaking SAP User Group (DSAG) once again surveyed companies in Germany, Austria, and Switzerland about their investment plans. Key findings: The general willingness to invest in IT solutions, including SAP solutions, is showing a steady increase. Regarding the ERP solutions SAP Business Suite 7 (ERP/ECC 6.0), S/4 Hana On-prem, and S/4 Cloud, it is clear that S/4 is becoming increasingly relevant. In addition, survey participants confirm that SAP will continue to grow in importance for their companies.

When asked about the ERP solutions they use, SAP ERP and Business Suite 7 are once again at the forefront. Forty-two percent of SAP customers plan to invest in S/4 On-prem, while 23 percent plan to invest in Business Suite. The results show a clear shift towards cloud solutions.

Many larger companies have a company-wide cloud strategy or guidelines in place for modernizing IT processes. As a rule, these companies tend to have greater investment power. Nevertheless, DSAG CEO Jens Hungershausen warns: "Some customers feel pressured by SAP to move to the cloud. The pace set by the software manufacturer is not sustainable for every company. SAP must not push its customers into making quick decisions for the

sake of its own share price. Instead, SAP must ensure that companies have realistic, economically viable, and strategically sensible migration prospects. Freedom of choice, long-term planning security, and fair conditions for on-premises customers are still needed."

Another question focuses on digital transformation and the progress companies are making in this area. Given the data available, it comes as no surprise that a significant number of SAP's customers in German-speaking countries have a positive view of digital transformation.

Large companies generally have the resources and budgets to implement comprehensive digitization projects at a faster pace and integrate their IT infrastructure efficiently. In addition, digital transformation and innovation are often defined as strategic priorities in this context, and their implementation is specifically promoted. This probably leads to larger companies assessing the progress of their transformation more positively than smaller companies, which may have to work with more limited resources.

The results of the DSAG Investment Report 2025 suggest that companies are increasingly willing to invest in forwardlooking technologies in the future. It should be noted that there is a significant trend toward the cloud. The growing relevance of artificial intelligence and cybersecurity illustrates the current challenges and opportunities facing companies. The increasing use of cloud services and the significantly growing relevance of artificial intelligence (AI) highlight the urgency of technological advancement in order to remain competitive. At the same time, an increasingly differentiated picture is emerging between large and small companies in terms of resource allocation for digital transformation.

SAP ERP/ECC 6.0

"You are right to point out that the current ECC systems running on Oracle Database are extremely stable and robust," says Gerhard Kuppler, Oracle Vice President SAP Alliances, when asked the following: from the perspective of SAP customers and based on the available DB, cloud, and AI technology from Oracle, the SAP NetWeaver stack with ERP/ECC 6.0 could probably continue to function operationally for many years. What are the arguments in favor of ECC/ NetWeaver operation?

"As long as SAP continues to offer patches for the SAP kernels and Oracle provides patches for the Oracle compo-



nents, these Abap systems can continue to run smoothly and efficiently in the future," explains Gerhard Kuppler. "Many SAP customers would rather invest their limited IT budget in new areas such as AI and machine learning, IoT and others to deliver brand new capabilities than reimplement their ERP, which they have spent 20 years building. Reimplementing ERP will add minimal new capabilities to what they already have today.

If ECC is a house and S/4 Hana is a newer house with better amenities, switching from ECC to S/4 would be like moving from a functional house to a newer house with nicer furnishings. However, if customers decide to stay in the current ECC house, they can afford a car. This gives them a greater radius of action and more freedom, just as a car offers more opportunities to explore uncharted territory. If SAP refuses to extend the maintenance plan for ECC, some customers may switch to third-party maintenance. And that is something neither Oracle nor SAP wants. Both SAP and Oracle agree on the risks of third-party maintenance."

On-prem versus cloud

Many SAP customers are considering cloud computing. "NetWeaver customers who want to move to the cloud have more options if their database is Oracle DB," explains Kuen Sang Lam, Senior Director SAP on Oracle Cloud Infrastructure and Technology. These customers can choose to move to standard VMs have the option of using the Exadata Cloud Service, which allows them to run their Oracle database on an Exadata machine in the cloud. In addition, customers can also run their SAP database on Exadata Cloud@Customer, where we deploy an Exadata in the customer's cloud. We are also working to have Oracle Database@Azure, Oracle Database@ AWS, and Oracle Database@GCP certified by SAP for running SAP Business Suite."

The many options would enable SAP customers to find a solution tailored to their individual needs. In addition to complete public cloud computing, Oracle also offers a hybrid solution known as Cloud@ Customer, where the entire cloud is deployed in the customer's preferred data center. "We are also working on a multi-cloud deployment model so that customers can leverage the benefits of Oracle Exadata technology with a hyperscaler of their choice," explains Kuen Sang Lam. "We recommend that our customers discuss their needs with us so that we can offer them a solution that best suits their requirements and budget."

But what aspects need to be considered when changing the IT architecture and ERP system? "Stability, reliability, and performance," says Kuen Sang Lam. "This is particularly important when migrating from one ERP to another. Customers need to ensure that their current ECC system is stable, runs reliably, and offers users good performance. This will enable them to focus on the complex migration project without having to spend too much time fixing problems in their existing system. The current ECC system should serve as a benchmark for the new system to be implemented. Optimize the new system until it is as fast or faster than the existing one. Launching a new system that is slower than the current one is a recipe for failure."

Gerhard Kuppler adds: "The most important question customers need to ask themselves is whether they want to bet the company on the outcome of an ERP project. If the answer is no-which it should be—then they need to prepare for that and ensure that the company runs smoothly and efficiently throughout the project. Before the project begins, they need to optimize the entire stack for the current ECC system, including the base platform—whether on-premises, in the cloud, or as a Cloud@Customer. They need to ensure that the current system is well covered in terms of performance, reliability, efficiency, and resilience.

"This is similar to building a new house, where the current house must continue to be maintained. You also need to factor in delays in the project so they do not negatively impact the business. Finally, you also need to plan for the possibility of project failure. The failure of an IT project should never cause a company's downfall. A plan in case a project fails ensures that the company survives the unfortunate event."

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In the field of AI, Oracle offers not only LLMs, but also AI infrastructure with the latest GPUs in a SuperCluster with up to 131,072 GPUs.



In enterprise IT, there are few systems that can match the complexity, size, and importance of SAP applications running on Oracle databases. As a result, strategies for protecting the data of these systems are carefully considered, funded, and continuously improved.

By Sugumaran Kannusamy, Oracle

AP applications on Oracle databases are the digital backbone of global finance, manufacturing, supply chain, and human resources management. Despite heavy investment in backup infrastructure, one unpleasant fact remains: backups are easy, recovery is hard. Anyone can create a backup. But when disaster strikes-whether it's human error, hardware failure, data corruption, or ransomware-the speed and reliability with which you can restore your SAP system determines whether your business survives the crisis or loses millions. Oracle aims to redefine the limits of what's possible with the Zero Data Loss Recovery Appliance (ZDLRA).

SAP DB backup failures

Older backup systems were not designed for today's SAP workloads. While many can schedule backups and retain copies, few offer the speed, integrity assurance, and real-time protection that modern businesses need. Behind the flawless dashboards and positive system status reports, a silent crisis is brewing. IT managers in companies with SAP workloads know that most backup strategies are only good enough until something goes wrong. And when that happens, the facade collapses.

SAP systems today face a multitude of complex challenges. One of the biggest illusions is the so-called backup window.

In reality, SAP systems never sleep, as users from different regions carry out transactions around the clock. The idea that there is a safe time window for backups therefore remains pure fantasy. Companies are consequently faced with the choice of either performing risky backups during ongoing operations, or doing without them altogether.

Another problem relates to enormous databases, which now often range in size from 20 to over 100 terabytes and are thus literally too large to fail—or be restored quickly. Many backup systems reach their limits when restoring large amounts of data. This results in a painful recovery phase that often lasts days or weeks, during which every delay means immediate loss of revenue. Even common backup methods based on snapshots have critical weaknesses. They are static, do not capture changes in real time, and often neglect redo logs, which ensure data consistency. This creates large transaction gaps which can have devastating consequences in an emergency.

Many companies also face the dilemma of having to pursue separate strategies for their SAP systems and all other IT areas. This means double licensing costs, isolated storage systems, multiple operating systems, and chaotic recovery processes. CIOs are forced to manage complicated and vulnerable "Frankenstein architectures" that can fail at critical moments.

But what is particularly stressful for IT

teams is the paranoia about the unknown when it comes to recovery. When they click "Restore," they are always left with the anxious question of whether the backup is truly intact.

The fear of discovering too late that the backup was inadequate accompanies every IT team and increases the pressure enormously. The risks are immense because SAP applications form the backbone of business operations—whether in finance, manufacturing, warehousing, or human resources. A failure during recovery is not only annoying, but tantamount to a systemic collapse—a heart attack for the entire business process.

Recovery with Oracle ZDLRA

ZDLRA is officially supported in SAP environments, as confirmed in SAP Note 105047 "Support for Oracle Functions in the SAP Environment." This solution is therefore not only fully compatible, but also expressly approved and supported by Oracle. It stands out from conventional backup solutions because it was not designed as a simple backup appliance, but as a powerful recovery platform.

From the outset, Oracle's goal was to ensure guaranteed, fast recovery without any data loss. These benefits apply to all Oracle databases, including those for SAP, regardless of the operating system used. ZDLRA thus offers a reliable, platform-independent solution that provides companies



with crucial security in critical situations. ZDLRA offers the fastest recovery speeds of any backup platform worldwide—up to 15–24 terabytes per hour. This level of performance is unmatched by any other provider, making ZDLRA the first choice for companies with extensive SAP landscapes. ZDLRA managed, in less than three to four hours, to restore a 60-terabyte SAP production database. Most conventional systems would take ten to fifteen hours or even longer. This time difference is the difference between a short service interruption and a full-blown operational crisis.

Why it always works

ZDLRA has block-level intelligence and does not just back up data files, but understands Oracle data blocks. This means that only the blocks that have changed need to be backed up, which reduces backup windows and data traffic while ensuring recovery consistency.

Unlike other solutions, Oracle ZDLRA compresses TDE-encrypted backups, saving space, speeding up recovery, and en-

ZDLRA

Oracle's Zero Data Loss Recovery Appliance is a purpose-built data protection solution that protects transactions in real time and enables databases to be restored in a very short time in the event of a failure or ransomware attack. Automated recovery, immutable backup copies, and a highly available architecture help you meet organizational requirements for protecting and quickly recovering critical data.

suring comprehensive data protection. This allows for space-saving encrypted backups. ZDLRA captures Oracle redo logs in near real time. This ensures zero data loss (RPO = 0), even between backups. In the event of corruption or failure, recovery can continue without transaction gaps. This means ZDLRA allows for real-time redo transport.

ZDLRA provides end-to-end data validation. Each backup is automatically checked for corruption, consistency, and usability. This eliminates uncertainty during recovery attempts—you restore a clean, trusted copy every time. ZDLRA also creates full backups from incremental changes as needed, without ever having to reread terabytes of unchanged data. This enables instant recovery points without the burden of frequent full backups.

ZDLRA is primarily an on-prem deployment platform. Customers running SAP applications on Oracle Cloud Infrastructure can use the Zero Data Loss Autonomous Recovery Service (ZRCV) to get the same service with the same security. This means it is also a cloud-enabled deployment platform.

It's about total cost of ownership, not dollars per terabyte of storage. ZDLRA is designed not only for performance, but also for long-term cost efficiency. Unlike traditional backup environments, where hidden costs arise from sprawling infrastructure, third-party tool chains, and high operational overhead, it simplifies the entire backup and recovery stack. With native integration, built-in deduplication, automatic validation, and real-time recovery capabilities, it reduces complexity, minimizes management overhead, and eliminates the need for complex

multi-vendor setups.

Most importantly, with a recovery rate of 15 to 24 terabytes per hour, it dramatically reduces downtime, turning extended outages into quick recoveries. The result is lower total cost of ownership (TCO), higher reliability, and faster recovery times.

Air-gap resilience

When it comes to fast database recovery, speed alone is not enough—security is just as important. With ransomware and cyber threats on the rise, backup systems themselves are targets. ZDLRA addresses this challenge by integrating advanced security mechanisms. The platform supports immutable replication and air-gap configurations. Backup data is securely replicated to a secondary ZDLRA system or, alternatively, to the Oracle Cloud. These solutions enable physical or logical "air gaps," i.e., security distances that ensure that clean, uncompromised recovery points are available in the event of a malware attack or sabotage. This means companies get the best possible data security and integrity in critical situations.

Modern CIOs aren't judged by how many backups they make, but by how quickly, cleanly, and reliably they can get the company back online without losing any data. With ZDLRA, recovery isn't a gamble anymore—it's a guarantee.



Sugumaran Kannusamy, Vice President – Hybrid Cloud Systems, Asia Pacific, Oracle



SAP ECC demands the highest performance—Oracle Exadata delivers it. As a platform fully certified for SAP NetWeaver, Exadata offers extreme speed, reliability, and easy scalability—whether on-prem, in the cloud, or hybrid.

By Sugumaran Kannusamy, Oracle

n a world where business moves at digital speed, SAP ECC is the operational heart of many global companies. From finance and manufacturing to logistics and human resources, SAP systems execute business-critical processes that require the highest levels of performance, security, scalability, and efficiency. But SAP ECC is only as good as the platform it runs on.

For ECC/NetWeaver and others

That's where Oracle Exadata comes in—a system designed to make applications like SAP ECC faster, more stable, and more efficient. Whether deployed on-prem, in a cloud behind the customer's firewall, or in Oracle's public cloud, Exadata delivers unmatched performance and reliability for SAP environments. In this article, you'll learn why SAP ECC and NetWeaver-based applications run best with the Oracle Exadata platform, not just technically, but also strategically. Oracle Exadata is not a general-purpose server or a cloud VM. Rather, it is an engineered systems platform designed specifically for high-performance database workloads and fully SAP-certified. This is crucial for companies that operate large SAP landscapes, often consisting of dozens or even hundreds of interdependent database instances.

Exadata's unique features

Firstly, Exadata has integrated computing, storage, and networking functionality. Unlike traditional implementations

with a motley architecture, Exadata offers a fully integrated stack that is optimized and tested for Oracle Database with SAP workloads.

Secondly, it has built-in redundancy and fault tolerance. With redundant components and Real Application Clusters (RAC), Exadata ensures maximum availability for SAP applications.

Thirdly, Exadata is provided quarterly with the important "SAP Bundled Patches." These patch bundles are pre-tested and certified by SAP for Exadata. They can be downloaded directly from the SAP support portal, which simplifies compliance approval and ensures a smooth patching process.

This type of integration eliminates many problems that are typical of multi-vendor environments, such as configuration complexity, patching delays, and blame games when incidents occur. Exadata makes SAP landscapes easier to manage, more secure, more powerful, and more reliable.

Exadata performance is enhanced by Smart Scan, SQL Offload, and Storage Index features. In a traditional setup, all SQL query processing takes place on the database servers, which can quickly become bottlenecks, especially during large data scans. With Exadata, however, query workloads are offloaded to intelligent storage servers, which perform data filtering, column projection, and local aggregations. This reduces database CPU usage and network traffic, as only the

relevant result set is returned from the storage servers to the database server.

Groundbreaking performance

For SAP workloads, especially those user self-developed Abap "Z" programs, these features make a huge difference. Such programs are typically batch-intensive, transaction- or analytics-heavy, and difficult to optimize. On Exadata, customers have seen performance improvements 3 to 33 times in real-world scenarios, resulting in faster reporting, shorter job run-times, and better decisions. This is important in industries such as retail (inventory/POS updates), finance (end-ofmonth batches), utilities (billing cycles), and manufacturing (production planning), where delays translate directly into costs or lost opportunities.

High availability

High availability is essential in an SAP environment. Whether SAP ECC or Business Warehouse (BW), downtime means business interruption. Exadata includes Real Application Clusters (RAC) out of the box, enabling active-active clustering across multiple nodes. Also included are Automatic Storage Management (ASM) for disk redundancy and fast recovery, and Oracle Clusterware for managing SAP SCS/ASCS high availability configurations. Instead of piecing together HA solutions from different vendors, Exadata offers native end-to-



end resiliency—certified and supported by Oracle and SAP.

Consolidation and scaling

SAP landscapes are notoriously complex. It is not uncommon for companies to have to manage dozens of development, QA, training, and production systems. With massive scalability and consolidation capabilities, Exadata helps reduce this complexity. Key benefits include increased DBA productivity (125+ databases per DBA), high consolidation density (100+ databases per rack), and lower data center costs (power, cooling, rack space).

Thanks to technologies such as Hybrid Columnar Compression (HCC), Flash Cache, and Storage Tiering, customers can reduce storage usage by up to 10 times while improving performance. An example of a use case: a global retail chain using SAP IS Retail reduced its batch job window from 2-3 days to 8 hours and compressed its archive storage by 15 times with Exadata.

Three deployment models

Today's SAP customers want the choice between on-premises, cloud, and hybrid. Oracle Exadata is the only platform that offers true architectural parity across all deployment models. At the same time, each model has its own strengths. Exadata on-prem provides full control, data sovereignty, and a CAPEX model. Exadata Cloud Services (OCI) are fully managed, scalable, ideal for rapid deployment and global operations with reduced real estate and energy costs. Exadata Cloud@Customer allows for cloud simplicity behind firewalls, an OPEX model, and regulatory compli-

ance. Flexibility and consistent architecture make Exadata the ideal platform for regulated industries (banking, healthcare, government) where data availability, latency, and control are paramount and non-negotiable.

Real-world impact

What are the customer experiences after switching to Exadata technology? Cencora (AmerisourceBergen) reported: "With Exadata, we were able to triple SAP throughput without any service interruption. The platform is incredibly stable and scalable." This is by no means an exception. It is one of many examples of what Exadata delivers in some of the world's largest and most demanding SAP ECC environments.

Value beyond the database

Oracle Exadata is not just an infrastructure platform, but also a catalyst for business transformation. In today's digital economy, where speed, risk minimization, and operational efficiency determine competitiveness, Exadata offers strategic advantages that go far beyond pure performance. Through fewer integration points, consistent patching cycles, and a unified management framework, Exadata reduces the operational complexity and risk associated with fragmented SAP environments. Companies benefit not only from faster innovation cycles, but also from greater confidence in compliance, business continuity, and audit readiness.

Oracle Exadata is also the ideal platform for consolidating a system landscape. It supports both SAP and non-SAP Oracle Database workloads on a single infrastructure, enabling CIOs to streamline data center operations, eliminate silos, and gain a single source of truth for the entire enterprise. This creates a more solid foundation for artificial intelligence and machine learning initiatives, analytics modernization, and multi-cloud integration strategies.

In short, Exadata is no longer just the database platform of choice. It is becoming the strategic core of enterprise IT modernization.

Conclusion

SAP infrastructure, reimagined

SAP ECC and NetWeaver systems are at the heart of modern business processes, and the infrastructure they run on determines whether they become a growth accelerator or a bottleneck. Oracle Exadata redefines what an SAP infrastructure should be: faster, smarter, and inherently resilient. It delivers unmatched performance, seamless scalability, and built-in high availability, all in a platform that simplifies operations and accelerates business results. Whether on-prem, in the Oracle Cloud, or behind a firewall with Cloud@Customer, Exadata is the only platform that delivers true architectural parity and enterprise-level reliability in any deployment model. For IT leaders who aren't just maintaining systems but shaping the future, demanding acceleration, reliability, and transformation at scale, Exadata is the platform of choice. Exadata isn't just infrastructure. It's a competitive advantage, not just for today, but for the future.

Many SAP customers are faced with the challenge of operating their NetWeaver-based applications efficiently and securely. This requires an optimized infrastructure that helps ensure performance, scalability, and security on-prem as well as in cloud or hybrid environments.

By Gursewak Sokhi, Oracle

hether on-prem or in private and public clouds, Oracle helps SAP customers work faster, more securely, and more flexibly while reducing costs. SAP and Oracle have been working together for decades to provide customers with a supported SAP/Oracle environment with Oracle Database, enabling smooth SAP operations that meet demanding business requirements.

Oracle Linux

Oracle Linux is the optimal foundation for Oracle Database and promotes high performance, scalability, and security for SAP workloads. Oracle Linux is a highly secure and optimized operating environment for developing and deploying NetWeaverbased applications across on-premises hardware platforms, Oracle Engineered Systems, Oracle Cloud Infrastructure (OCI), other leading hyperscaler cloud platforms, and multicloud environments. In addition to providing a reliable open source operating system (OS), Oracle Linux offers KVM-based virtualization, infrastructure management, Oracle Ksplice zero-downtime patching, cloud native tools, and much more.

Serving as Oracle's development and runtime platform, Oracle Linux forms the backbone of the Oracle Database and provides a robust, scalable foundation for compute-intensive workloads. Oracle Linux stands out from alternative Linux distributions through its deep integration with the solution stack. It includes the Unbreakable Enterprise Kernel (UEK), which has been optimized specifically for Oracle Database to maximize efficiency and deliver outstanding performance. The Oracle Database and Oracle Linux development teams work closely together to continuously enhance

UEK with upstream innovative solutions, performance optimizations, finely tuned system calls, and more to improve application performance. This close coupling helps improve transaction speeds and query processing for a wide range of applications, including SAP workloads.

Deploy SAP for the cloud

Oracle is continuously working with SAP to certify and support SAP NetWeaver-based applications on OCI. OCI runs on Oracle Linux, making it easier for companies to move Oracle-based SAP applications to the cloud. OCI enables customers to run the same Oracle Database and SAP applications as they do on-premises, preserving their existing investments while reducing costs and improving flexibility.

Oracle and SAP have certified SAP Net-Weaver-based applications that use Oracle Database for exclusive operation on Oracle Linux on OCI, Amazon Web Services (AWS), Google Cloud Platform, and Microsoft Azure. Oracle Linux is also used to deploy SAP NetWeaver-based applications with Oracle Exadata Cloud@Customer.

Manage Infrastructure

Companies often face the challenge of staying up to date with critical security patches and managing operating system deployments across their application infrastructure. With Oracle OS Management Hub, customers can automate, streamline, and simplify the management and monitoring of updates and patches for Oracle Linux systems from a single management console in OCI. OS Management Hub is fully integrated with Ksplice, enabling customers to apply selected security updates to Oracle Linux

without rebooting, reducing application disruption and maintaining continuous availability. OS Management Hub manages Oracle Linux systems in distributed environments-in private data centers, OCI, and supported third-party clouds. It enables IT teams to easily view and manage operating system deployments at a glance and at scale, including those supporting critical SAP workloads, to help ensure security compliance and improve operational efficiency. With OS Management Hub, organizations, including SAP customers, can better manage their systems without worrying about maintaining the underlying infrastructure, allowing administrators to focus on projects that drive revenue.

Realize your full potential

Oracle's decades of experience supporting standards-based computing has resulted in a robust infrastructure stack that helps organizations worldwide reduce costs while meeting business-critical requirements for diverse workloads. For all SAP customers, using Oracle Linux as the backbone for their SAP/Oracle deployments can help lower total cost of ownership while increasing reliability. Whether the SAP/Oracle deployment is running on-premises, in the cloud, or in a hybrid environment, Oracle Linux can play a fundamental role in helping to increase operational efficiency for SAP workloads.



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