SAP HANA on IBM Power Systems:
Driving innovation at the speed of business

IBM

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Learn how companies across a range of industries are transforming their business to meet today's demands with SAP HANA on IBM Power Systems.

A rock-solid foundation for business-critical workloads

Across industries, organizations are recognizing the advantages of implementing SAP HANA solutions on IBM® Power Systems™—a platform built with open technologies and designed for mission-critical applications. With SAP HANA on IBM Power Systems, organizations are accelerating performance of analytics, transactional workloads, enterprise resource planning (ERP) and more. Running SAP HANA on IBM Power Systems provides:

Flexibility: IBM Power Systems is the first platform to support virtualized instances of SAP HANA in production. SAP customers can run eight SAP HANA instances on a single IBM Power Systems server.[1]

Resiliency: Designed for 99.999 percent uptime, IBM Power Systems helps maximize SAP HANA availability. With IBM Power Systems, organizations can preemptively migrate applications before failures occur using advanced self-monitoring and predictive failure alerts.

Performance: IBM Power Systems was purpose built for data-intensive workloads like SAP HANA. This impressive performance results in faster, more efficient analysis of business data.

Discover how enterprises are using SAP HANA on IBM Power Systems to adapt easily to changing business demands, achieve around-the-clock availability and drive greater innovation with fast, real-time insights.

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Ctac cuts lead times with fast platform deployment

Background

Offering business consultancy, cloud services and software development, Ctac is an information and communications technology (ICT) provider and SAP Value Added Reseller headquartered in Hertogenbosch, The Netherlands, with offices in Belgium and France.

Challenge

Ctac wanted to help its customers optimize their business processes, enabling them to gain the advantages of real-time analytics without imposing high up-front investments in new infrastructure.

Solution

The company deployed IBM Power Systems servers with IBM POWER8® processors, IBM PowerVM® virtualization technology and SUSE Linux Enterprise Server for SAP Applications. The environment provides Ctac customers with a highly flexible and scalable cloud infrastructure. An IBM Storwize® V7000 storage system helps optimize performance across systems and applications.

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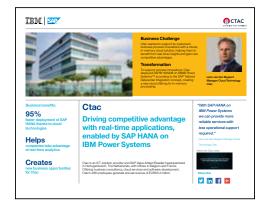
Results

New business

The solution has generated new business opportunities by enabling Ctac to create a new, flexible in-memory cloud offering that allows customers to scale capacities up and down according to their business needs.

Fast deployment

A 95 percent improvement in deployment speed substantially cuts implementation time for real-time business applications and significantly increases responsiveness to fluctuating demands.

Lower costs

The solution helps cut operating costs by simplifying the IT infrastructure, boosting capacity utilization with advanced virtualization and reducing the administrative workload.

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Dedagroup helps clients grow to new heights

Background

Dedagroup is the 10th-largest Italian-owned IT group. The firm supports enterprises, public organizations and credit institutions, offering expertise in applications, technology and system integration. Founded in 2008 and headquartered in Trento, the company currently operates branches across Italy and in Mexico, the United States, France and the Middle East.

Challenge

In the fast-moving cloud services market, Dedagroup must keep innovating to win customers, contain costs and stay ahead of rivals.

Solution

With a new cloud offering based on SAP HANA and supported by IBM POWER8 servers, Dedagroup offers customers a winning combination of high performance and flexibility at a competitive price.

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Results

Improved services

Rapid data processing helps Dedagroup's clients launch products faster and expand their businesses.

Increased market share

Cost-effective, cutting-edge cloud offerings enable Dedagroup to win new clients, boost revenue and increase market share.

Fast time to market

The company has accelerated its time to market for launching new services and solutions.

Read the case study

Taking innovation to new heights with SEIDOR

Background

Employing more than 3,000 people, SEIDOR is a Spanish multinational technology company that provides consulting services and software solutions. The company is also a leading IBM Business Partner, specializing in SAP products and solutions.
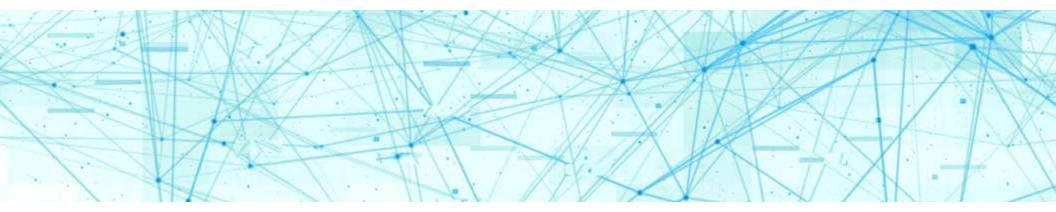
Challenge

To maintain its market-leading position, SEIDOR wanted to meet increasing customer demands for solutions that provide enhanced flexibility and easy IT management at a competitive price point.

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IBM

Solution

SEIDOR deployed the SAP HANA database on IBM Power Systems and launched the solution as a cloud-based pay-per-use platform.

Results

The new service helped SEIDOR expand its market share and win new business, with over 70 customers and more than 3,500 users already accessing its cloud service.

Watch the video

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Meeting diverse customer demands at TUM

Background

Technische Universität München (TUM) is one of the world's leading technical universities, combining first-class facilities for cutting-edge research with unique learning opportunities for more than 37,000 students. The SAP University Competence Center location at TUM provides educational services to a total of 217 other institutions for higher education.

Challenge

The SAP University Competence Center wanted to implement a high-performance, flexible hosting platform that was agile enough to meet changing customer demands while keeping operational costs low.

Solution

To support its SAP HANA hosted solutions, the university deployed an integrated stack of IBM solutions, including IBM Power Systems and IBM XIV® storage.

Results

Flexible services

Drawing on the built-in virtualization capabilities of the IBM Power Systems platform, TUM can now offer efficient, flexible services to rapidly meet a wide range of customer demands while minimizing the university's administrative burden.

Efficient delivery

The solution enhances the university's reputation for attracting new students and funding while providing cost-effective hosting services that meet the needs of its growing customer base.

IBM | SAP

Technische Universität München offers fast, simple and smart hosting services with SAP and IBM

Technische Universität München (TUM) is one of the world's leading technical universities, combining top-class facilities for cutting-edge research with unique learning opportunities for more than 37,000 students. The department of informatics serves just over 3,500 students, with a strong focus on links to industry. The SAP have the opportunity to acquire and strengthen SAP competence, attend trainings and learn how to apply teachings to their classes and become part of a community of academics using SAP software in teaching and research.

Fostering innovation

Overview

Challenge
To make its latest hosting services offering based on SAP HANA a realistic proposition, the SAP University Competence Center at TUM needed a cost-effective platform, agile enough to meet changing customer demands at low cost.

Solution

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Kennametal reacts faster to changing customer needs
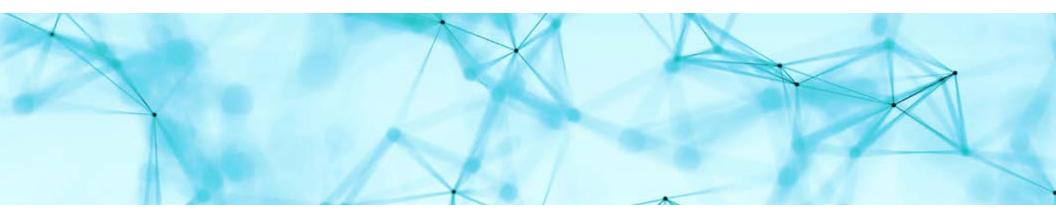
Background

Kennametal is a global industrial technology leader delivering innovative custom and standard wear-resistant solutions, including metalworking tools, mining and construction products, and specialized engineered components. The company serves customers in more than 60 countries across aerospace, earthworks, energy, general engineering and transportation markets.

Challenge

Configuration complexities within the company's ERP systems were making it difficult for finance personnel to view and analyze their SAP data. Kennametal wanted to standardize and simplify its financial processes and sought a platform that could accelerate business system performance and provide rapid insights into key operational metrics.

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Solution

Kennametal worked with IBM Global Business Services® to migrate SAP ERP from an Oracle database to an SAP HANA in-memory database running on IBM Power Systems with IBM POWER8 processors. The server hosts development, sandbox and QA environments running on IBM PowerVM.

Results
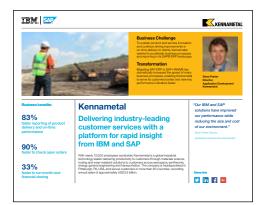
Accelerated performance

Kennametal accelerated its on-time performance reporting by 83 percent, open order reporting by 90 percent and month-end batch processing by 33 percent.

Simplified support

Choosing both hardware and services from a single provider helped streamline vendor management, enabling efficient, responsive service and a lower total cost of ownership.

Enhanced service

Migrating to SAP HANA on IBM Power Systems has helped dramatically increase the speed of core business processes, enabling Kennametal to gain faster insights into key performance indicators and enhance the customer experience.

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VEKA AG keeps business systems running around the clock

Background

VEKA AG is the world's largest extruder wof PVC profile systems for windows and doors. Headquartered in Sendenhorst, Germany, VEKA employs approximately 5,000 people worldwide and reports annual revenues of more than EUR 790 million (USD 880 million).

Challenge

To manufacture and deliver products to customers on time, VEKA depends on its core business systems running uninterrupted all day, every day. The company needs high-performance systems that can help ensure around-the-clock access to real-time information from its core SAP business applications.

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IBM

Solution

VEKA deployed five IBM Power Systems servers and four IBM FlashSystem® storage solutions to support its traditional SAP applications, as well as a brand-new SAP HANA environment on IBM POWER8.

Results

Faster response

Migrating to SAP HANA on IBM Power Systems has helped VEKA improve response time, enabling staff to work 30 percent faster and more productively.

Better performance

Email backup capability has helped the company free up resources while reducing the impact on user performance.

Cost savings

VEKA has achieved substantial savings in annual energy costs, thanks to the solution's low power consumption.

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Achieving unprecedented time to insight at Mondi Group

Background

Mondi is an international packaging and paper group, employing approximately 25,000 people across more than 30 countries. The company's key operations are located in central Europe, Russia, North America and South Africa.

Challenge

Executives at Mondi wanted to gain answers to complex business questions, but massive data volumes were continuously slowing down reporting. To improve its business insights, the company sought to enhance its analytics capabilities.

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Solution

Mondi engaged IBM to migrate its SAP Business Warehouse solution to the SAP HANA database and upgraded its SAP ERP systems to IBM POWER8 servers.

Results

Faster reporting

The company has accelerated its reporting capability, which is on average three times faster.

Improved decision-making

With faster reporting, Mondi is encouraging staff to use hard data to improve decision-making.

Reduced downtime

The company experienced system downtime of just two days during migration, rather than the six days originally anticipated.

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Bosch Group drives game-changing innovation

Background

Bosch is a leading global supplier of technology and services, employing 374,000 people and generating annual revenues of EUR 70 billion. The company operates its own IT division of approximately 4,000 people.

Challenge

To help the company remain innovative, business users at Bosch need responsive, highly personalized IT services plus the ability to enhance services and add functionality on the fly.

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Solution

With SAP S/4HANA, Bosch gains deep operational insight. The combined speed and performance delivered by the SAP HANA on IBM Power Systems platform enables rapid analytics queries.

Results

Innovation

Business users at Bosch can set up systems quickly with minimal support from IT, unlocking substantial time savings and fostering a rich culture of innovation to drive commercial success.

Better insights

Fast data analytics gives managers deep insights into business operations.

Increased agility

The flexibility of the IBM Power Systems platform allows users to quickly develop personalized services and add functionality to meet changing needs.

Volker Fischer
Senior Expert, AIX
Bosch

Watch the video

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Using fast analytics to optimize supply at HR Group

Background

Headquartered in Osnabrück, Germany, major footwear retailer HR Group sells its products through 2,500 locations, including 750 of its own branches, in 20 countries.
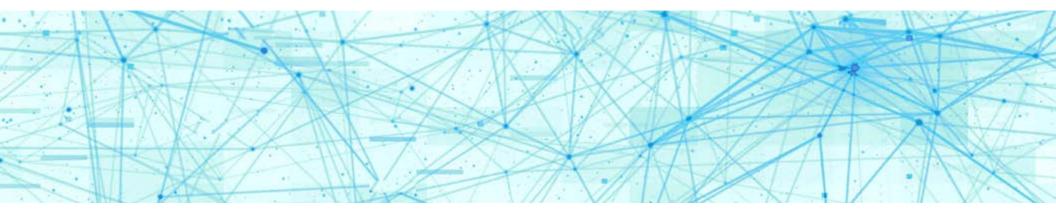
Challenge

To sell its stock across all its branches at the best possible prices, the company needs fast insights into changing customer behavior and shifting fashion trends.

Solution

HR Group migrated to SAP HANA on IBM Power Systems for SAP Business Warehouse, taking advantage of the latest IBM POWER8 technology and centralized IBM Storwize V5000 storage. The company also linked point-of-sale devices in its 750 branches to SAP HANA using SAP Point-of-Sale Data Management.

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Results

Optimized inventory

With near-instant insights into market trends and more granular planning capabilities, the company can now stock the right products at the right branches more reliably than before.

Reduced risk

Using SAP POS Loss Prevention Analytics for Retail, HR Group can monitor its transactions and quickly identify suspicious or potentially fraudulent activity, helping to minimize risk and loss.

Increased productivity

Having all of its SAP applications on a single, highly reliable server platform helps the company standardize systems management and increase IT productivity.

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South Shore Furniture accelerates transaction processing

Background

South Shore Furniture is a North American furniture manufacturer, with plants in Canada and Mexico and a distribution center in the United States.

Challenge

To meet its aim of delivering goods to customers within 24 hours of receiving each order, South Shore Furniture must maintain lean and efficient supply-chain operations.

Solution

South Shore Furniture dramatically accelerated order processing and fulfillment by upgrading its SAP Business Suite and SAP Business Warehouse applications to SAP HANA running on IBM POWER8.

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Results

Faster transactions

South Shore Furniture is able to process transactions eight times faster, driving rapid deliveries to its customers.

Improved insights

The new SAP HANA solution helps the company pave the way to enhanced analytics capabilities, and new Internet of Things and big data initiatives.

Scalability

The capacity-on-demand feature of the IBM Power Systems platform allows the company to dynamically activate inactive processors or memory resources on the server as its business peaks dictate.

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Accelerating business processes at Ecogas

Background

Ecogas specializes in distributing natural gas to households and businesses across six provinces in Argentina. A regulated monopoly, the company serves approximately 1.2 million customers through an extensive distribution network.

Challenge

With existing business systems near full capacity, Ecogas sought to upgrade its IT infrastructure so the company could effectively manage greater business volumes. Ecogas needed a reliable server platform that could support rapid future growth while enabling it to maintain its high levels of customer service.

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Solution

Ecogas replaced its legacy business solutions with SAP for Utilities running on SAP HANA. The software integrated smoothly with the company's existing SAP ERP systems, supported by IBM Power Systems servers.

Results

Faster processing

Ecogas accelerated payment processing by 73 percent and compliance reporting by 83 percent while gaining valuable analytics capabilities.

Improved service

The solution helped ease the company's path to growth, enabling it to handle higher processing volumes while providing customers with fast, efficient services and accelerating response times.

Better insights

In-depth analytics capabilities helped Ecogas gain a deeper understanding of its customers. The company now can identify ways to improve on-time payments, which helps boost cash flow.

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Better insights for smarter decisions at PT. Diamond

Background

PT. Diamond Cold Storage is an established Indonesian manufacturing company focused on dairy-based and frozen food products. Its subsidiary, PT Sukanda Djaya, is the leading refrigerated distribution company in Indonesia, with operations across 18 major cities.

Challenge

To remain at the forefront of its industry, PT. Diamond sought to upgrade its IT infrastructure to support the adoption of mobile and Internet of Things applications—paving the way to more automated, efficient operations.

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Solution

The company upgraded its existing SAP ERP solution to the SAP HANA in-memory database, running on IBM Power Systems.

Results

The solution enables PT. Diamond to launch mobile technologies while improving operational efficiency and cutting costs. It also supports speed-of-thought analytics, driving smarter decision-making.

Norman Chen

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United Breweries enjoys the taste of success

Background

United Breweries Limited dominates the Indian beer market, with a market share of approximately 50 percent. Its flagship brand Kingfisher has achieved international recognition, selling in 52 countries and leading the way among Indian beers in the global market.

Challenge

To meet strict regulations on the distribution of beer, United Breweries must generate compliance reports. But as data volumes grew, generating the reports on time became challenging.

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IBM

Solution

By migrating its existing SAP HANA database to the latest IBM Power Systems servers, United Breweries dramatically accelerated data analysis and report generation.

Results

Faster reporting

United Breweries has dramatically accelerated data analysis and report generation, helping to achieve a 50 percent improvement in back-end jobs.

Improved scalability

The move to IBM Power Systems has helped the company boost scalability, providing headroom for future growth.

Workload savings

The company optimized the IBM Power Systems platform to run other workloads with SAP HANA, resulting in substantial savings in daily, weekly and monthly workloads.

Ramakrishnan Sudarshanam
Divisional Vice President - IT at United Breweries Ltd

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Shifting quality control into top gear at Indus Motor Company

Background

Founded in 1989, Pakistan's Indus Motor Company manufactures, assembles, distributes and imports Toyota and Daihatsu vehicles as well as spare parts and accessories for those car companies. Employing more than 2,300 people, Indus Motor Company operates a dealership network with 45 locations across the country, and generates gross annual revenues exceeding USD 1 billion.

Challenge

To compete with a surge of foreign entrants into Pakistan's auto market, Indus Motor Company wanted to improve its forecasting process, which would help increase sales order accuracy, reduce costs and enable timely manufacturing to meet demand.

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Solution

Indus Motor Company is transforming front-to-back operations with SAP S/4HANA based on high-performance IBM Power Systems servers connected to IBM Storwize V5000 storage arrays. The solution is at the heart of the company's new digital business processes designed to collect and analyze data from across the business, and transform that data into actionable insight.

Results

Faster planning

The company has achieved 95 percent faster material requirements planning, helping to reduce the risk of supply-chain disruption.

Improve order accuracy

Indus has improved sales order accuracy by 10 percent, enabling timely manufacturing to meet ongoing demand.

Higher quality

The company has experienced a 20 percent reduction in defects per unit, helping to accelerate manufacturing and improve customer satisfaction.

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Next steps and resources

Need more reasons why you should choose SAP HANA on IBM Power Systems?

1. Get more flexibility and agility for SAP HANA.

View the video

2. Discover how to gain more value for your business.

Download the white paper

3. Check out what's new with IBM Power Systems capabilities.

Read the blogs

For more information
Contact your IBM representative or IBM Business Partner, or visit:
ibm.com/power/saphana

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IBM

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[1] SAP Note 2230704 supports eight SAP HANA production instances on IBM E870C and E880C systems. Register or log-in https://support.sap.com/home.html to retrieve the note https://launchpad.support.sap.com/#/notes/2230704/E. Register or login https://support.sap.com/home.html. See SAP Note 2315348-4/11/2016 supports one SAP HANA production instance production/server: https://launchpad.support.sap.com/#/notes/2315348.

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