

# Simplify IT and Reduce TCO: Oracle's End-to-End, Integrated Infrastructure for SAP Data Centers



## KEY FEATURES

- Vertical integration
- Cloud-ready infrastructure
- Built-in, low-overhead virtualization
- Simplified maintenance and management
- Energy efficient
- High performance
- Tight partnership and unified support with SAP

## KEY BENEFITS

- Reduced total cost of ownership
- Increased business agility
- Focus on driving business value

Over time, IT infrastructures have become increasingly complex and costly to manage and operate. Oracle's end-to-end, integrated, industry-leading infrastructure solutions for SAP let you simplify your IT environment so you can drive more business value. With a high-performance, robust, open, and flexible SAP infrastructure based on Oracle solutions, you can leverage the power of virtualization to reduce total cost of ownership and increase business agility.

## Introduction

With increasing numbers of interdependent applications, servers, and databases, distributed IT environments, and more users than ever before, IT infrastructures have become extremely complex. Increased complexity leads to higher costs, impedes agility, and reduces the time and resources available for innovation. So, to drive more business value, IT organizations must simplify their infrastructure and operations.

With end-to-end integration, Oracle IT solutions for SAP span the enterprise, from browser to data center to storage, allowing you to simplify your SAP environment. Oracle solutions help you save energy, increase flexibility, improve availability, and streamline management operations. The result is reduced total cost of ownership (TCO) and accelerated return on investment (ROI) for your SAP and Oracle environment. Through vertical integration, cloud-ready, best-in-class systems, and a tight partnership with SAP, Oracle delivers solutions that let you drive more business value.

## Vertical Integration

Oracle adds value and simplifies your infrastructure through integration. No other vendor provides all the components of the stack, so their solutions must be pieced together, a time- and resource-consuming process. Oracle's solutions are designed to work together at every level from the start and are built on open standards for easy integration with your existing IT infrastructure.

- **Broad portfolio** - Oracle's portfolio is the broadest in the business. That gives us a unique ability to offer customers a complete hardware and software stack—from applications through middleware and databases, and all the way down into servers and storage. We offer all of this on premises or in the cloud.
- **End-to-end integration** - Each of the layers—and all the products within the layers—have been designed and engineered to work together according to open standards.
- **Optimized performance** – Because Oracle solutions are designed from the start to work together, we're able to optimize performance across the entire stack.
- **Increased reliability and security** – Oracle's integrated design approach ensures all

components work together reliably and boosts security.

- **Streamlined management** – Because Oracle’s management tools run through every layer, it’s also much easier to manage the stack and upgrade it over time.

The net result is that Oracle customers spend a lot less time and money on routine tasks, and a lot more on strategic projects.

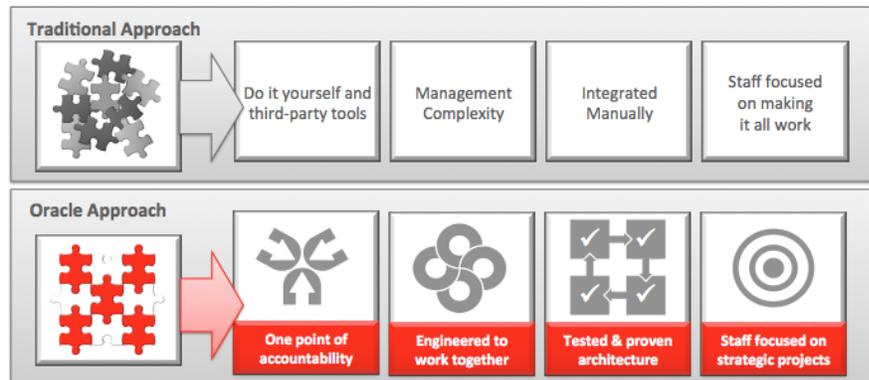


Figure 1. Oracle’s integrated approach helps simplify your IT landscape.

## Cloud-Ready Infrastructure

Oracle’s solutions are designed to work in the cloud and the same Oracle systems can be used to build a complete cloud infrastructure as well as your SAP environment. With Oracle, you get a complete, integrated cloud that minimizes IT integration efforts, increases flexibility and agility, boosts performance, and protects your existing Oracle investments. When your business is ready, you can move to the cloud easily—without expensive integration efforts—and be sure that your data is connected across all of your systems.

## Best-In-Class Solutions

Oracle focuses on creating the best possible products and solutions on the market. Gartner recognizes Oracle as the #1 provider across dozens of product categories, segments, and industries. Oracle delivers functionality, scalability, reliability, and security—all with mobile and social features built in. That means you can spend less time on maintenance and customizations, and more time on innovation.

## Lower TCO

By simplifying IT, Oracle allows you to reduce TCO of your SAP infrastructure. In fact, a recent market study showed that simplifying IT with Oracle systems drives a value of US \$3610 per employee each year, totaling US \$83 million average annual benefits.<sup>1</sup> That money can be redirected to strategic business goals. Oracle systems reduce TCO through a number of methods.

- **No integration costs**—Oracle’s solutions are pre-integrated, saving you time and money.
- **Virtualization and consolidation** - The Oracle Optimized Solution for SAP enables the consolidation of multiple, complex SAP landscapes. Built-in no-cost, low-overhead virtualization technologies isolate SAP workloads and offer the fine-grained resource

<sup>1</sup> Edison Group, “Advantages of Oracle SPARC Servers Running Oracle Solaris over Commodity Alternatives,” August 2014.

control needed to safely consolidate the SAP landscape within a single platform. This saves you money on hardware and software licenses and power and cooling.

- **Simplified maintenance and management** - Built-in management tools streamline software updates and patch rollouts. To simplify software maintenance, patches from Oracle and SAP are integration-tested for compatibility, verified, and bundled together for easier administration. This means the entire software stack—even patches and upgrades applied previously—goes through load and stress testing before being released to ensure patch combinations work as expected. This reduces risk, shortens downtime, and saves you time and resources, which you can then redirect to other projects. All of this adds up to more efficient operations and better productivity.
- **Energy efficiency** - Oracle actively develops new processors with simpler cores that produce less heat and use half the power of competitive processors. In addition, Oracle works closely with Intel to design energy-efficient computers using Intel Xeon processors. Oracle's eco-efficient Open Storage products combine solid state disks (SSDs) and hard drives to improve storage performance, increase capacity, and lower power consumption. Beyond using green hardware, increasing system utilization with virtualization technologies is critical to reducing energy consumption. Virtualization technologies from Oracle dramatically reduce energy costs, simplify administration, and improve flexibility, from the edge of the network to back-end information management, to enable your business to adapt and grow quickly.
- **Performance** – Oracle's high-performance systems allow you to do more in less time with a smaller, simpler infrastructure. Reports and analyses run faster, giving you new insight into your business so you can respond faster to changing market conditions with new business models.
- **Unified support** – Support is just a single call away for your entire SAP and Oracle environment. This minimizes system downtime by reducing risk and resolving issues faster, so you can be more productive.

All of this adds up to lower TCO for your SAP environment. The Oracle Insight Program can analyze your infrastructure and business strategy to help you understand the cost effects of your current technologies and how you can improve the TCO of your SAP environment.

## Customer Case Studies

Many companies are choosing Oracle systems for their SAP environments to lower TCO. One European retailer migrated from IBM p-series to Oracle Engineered Systems for savings of 49% across their data center, as shown below.

### DATA CENTER SAVINGS FOR EUROPEAN RETAILER

Savings Area	Cost Reduction
Labor Costs for Servers	9%
Labor Costs for Database	5%
Software Maintenance Costs	21%
Hardware Maintenance Costs	34%
Storage Costs	21%
Floor Space and Facilities Costs	2%

## Global SAP instance for 30.000 users worldwide (k€)

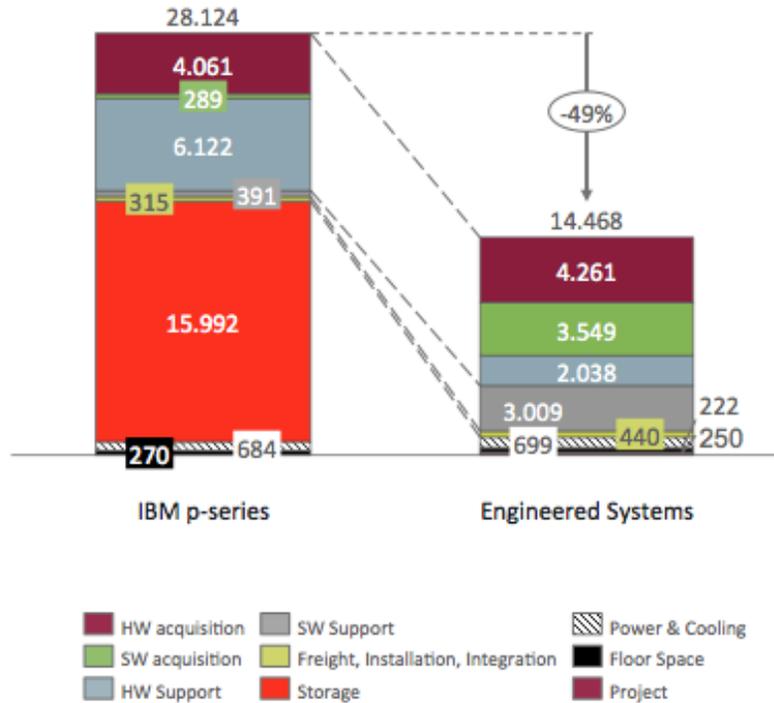


Figure 2. Data center savings for European retailer.

Several other companies have also achieved impressive savings and benefits by migrating their SAP environments to Oracle Exadata Database Machine.

### ORACLE CUSTOMER SAVINGS AND BENEFITS

Customers	Benefits Acheived
Glencore International	<ul style="list-style-type: none"> <li>• Reduced time for report generation from overnight to less than an hour</li> <li>• Reduced complexity of IT systems significantly</li> <li>• Reduced administrative team by 75%</li> </ul>
Lion Corporation	<ul style="list-style-type: none"> <li>• Increased SAP ERP Accounting query speed by 20x</li> <li>• Reduced storage requirement by half</li> </ul>
China Shenhua Energy Company	<ul style="list-style-type: none"> <li>• Cut costs of system maintenance and operations by 80%</li> <li>• Ensured 24x7 system availability</li> <li>• Laid a solid foundation for future low-cost IT infrastructure expansion</li> </ul>
Dongfeng Motor Corporation	<ul style="list-style-type: none"> <li>• Improved performance of logistics management system by 15x</li> <li>• Provided capacity and scalability to meet company growth over next 3 years</li> </ul>
Koçtaş Home Improvement	<ul style="list-style-type: none"> <li>• Improved query performance by 4x to 10x</li> <li>• Improved availability levels significantly</li> <li>• Ensure quick and easy scalability</li> </ul>

## Conclusion

Based on market-tested, industry-leading technology, Oracle's end-to-end infrastructure solutions for SAP provide a high-performance, robust, open, flexible SAP architecture that leverages virtualization to reduce TCO and increase business agility. Oracle's solutions help you simplify IT so you can deliver more value to your business. Email [saponoracle@oracle.com](mailto:saponoracle@oracle.com) for more information about Oracle's solutions for SAP customers.

**ORACLE**

### CONTACT US

For more information about Oracle solutions for SAP customers, visit [oracle.com/sap](http://oracle.com/sap) or email [saponoracle@oracle.com](mailto:saponoracle@oracle.com).

### CONNECT WITH US

-  [blogs.oracle.com/oracle](http://blogs.oracle.com/oracle)
-  [facebook.com/oracle](http://facebook.com/oracle)
-  [twitter.com/oracle](http://twitter.com/oracle)
-  [oracle.com](http://oracle.com)

### Hardware and Software, Engineered to Work Together

Copyright © 2014, Oracle and/or its affiliates. All rights reserved. This document is provided for information purposes only, and the contents hereof are subject to change without notice. This document is not warranted to be error-free, nor subject to any other warranties or conditions, whether expressed orally or implied in law, including implied warranties and conditions of merchantability or fitness for a particular purpose. We specifically disclaim any liability with respect to this document, and no contractual obligations are formed either directly or indirectly by this document. This document may not be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without our prior written permission.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group. 0115



Oracle is committed to developing practices and products that help protect the environment