Simplify and accelerate

HP ConvergedSystem 500 for SAP HANA and VMware vSphere
Transforming your data center

In the age of Big Data, how well—and how fast—you capture and analyze data can be a real differentiator. That makes straightforward, reliable, real-time access to data a business imperative.

That’s no small undertaking in today’s business environment, where IT is increasingly responsible for enabling new products, services, and business processes that will drive future competitive advantage for the entire business.

It’s no wonder that business intelligence/analytics, cloud, and enterprise resource planning (ERP) are three of the top five priorities for CIOs.²

The SAP HANA® in-memory platform gives you instant access to huge volumes of data as they are created, without complex layers of data management and storage getting in the way. Performing real-time analytics, transaction execution, and data processing on a single in-memory database allows you to obtain value from exploding data volumes, even with limited capital and operational resources. This, in turn, allows the business to leverage IT as a true source of competitive advantage—supporting business innovation by combining online transaction processing (OLTP) and online analytical processing (OLAP) capabilities.

However, to maximize SAP HANA performance, you need to shift focus from routine adoption to driving real business value. This calls for an optimized environment that can scale performance, manage Big Data efficiently, and operate reliably while saving costs, in a holistic, solution-based manner.

¹ Taneja Group Research 2014
² Gartner Executive Programs, “Flipping to Digital Leadership: Insights from the 2015 Gartner CIO Agenda Report,” October 2014
Accelerating business innovation with HP and VMware

HP and VMware have partnered to develop joint solutions for SAP HANA that are proven to work optimally across hardware and software, with a complement of services. The industry-leading combination of HP ConvergedSystem 500 for SAP HANA and VMware vSphere® virtualization technology accelerates faster decision making by giving you the ability to rapidly deploy SAP HANA and achieve faster time-to-value across solutions, while significantly reducing total cost of ownership (TCO).

HP ConvergedSystem 500 for SAP HANA is a portfolio of easy-to-order, easy-to-deploy, and easy-to-manage systems that are optimized for real-time workloads. They are pre-built, and optimized for high performance and unmatched scalability.

Combining the power of HP ConvergedSystem 500 for SAP HANA with VMware vSphere virtualization drives even more speed, efficiency, and simplicity with full SAP® and VMware support. This allows you to accelerate the adoption of SAP HANA in the most flexible, cost-effective way, with advanced features such as VMware vSphere vMotion®, VMware vSphere Distributed Resource Scheduler™ (DRS), VMware vSphere High Availability (HA), and Disaster Recovery (DR) using VMware vCenter™ Site Recovery Manager™.


Optimized for speed
HP ConvergedSystem 500 for SAP HANA with VMware vSphere helps you make faster, better business decisions supported by real-time, reliable access to analytics and reporting. And you can become real-time, faster with truly complete systems that simplify IT through quick deployment, intuitive management, worldwide consulting, and support.

The solution also allows you to streamline common tasks and manage your SAP HANA environment more effectively. This includes accelerating and automating provisioning to reduce overall deployment time to hours vs. days. And only HP and VMware have demonstrated the best performance benchmarks for virtualized SAP HANA, putting to rest any concerns about performance degradation by virtualizing.

Purpose-built for efficiency
HP ConvergedSystem 500 for SAP HANA with VMware vSphere provides more reliable and predictable performance with robust systems that are purpose-built and optimized for SAP HANA with high availability and enterprise data protection features. For day-to-day operations, VMware vSphere vMotion allows you to live-migrate SAP HANA databases across VMware vSphere hosts in just minutes, with zero downtime and zero data loss. In the case of a server outage, VMware vSphere HA preserves 99.9 percent uptime by automatically restarting virtual machines on other hosts in the cluster, without manual intervention.

The integration of virtualized IT services with analytics-based, highly automated operations management simplifies and streamlines administration. At the same time, the ability to unify and manage SAP HANA with the rest of the virtualized data center allows you to reduce the need for specialized staff. This delivers big gains in efficiency, lowering operating expenditures (OPEX) by 56 percent and freeing up resources to be focused on innovation. Capital expenditures (CAPEX) are reduced by 70 percent as well, through enhanced hardware utilization rates and scenario-based data center capacity planning capabilities. Consolidating multiple physical servers into a single virtual environment and standardizing server configurations lowers TCO even further.

3 EMC IT, 02/14 EMC Perspective, H12853
4 Based on EMC IT internal analysis.
5 SAP test results, “SAP BW Enhanced Mixed Load Standard Application Benchmark Results,” October 2014
**Built-in simplicity**

HP ConvergedSystem 500 for SAP HANA with VMware vSphere reduces complexity and simplifies manageability, letting you stay focused on driving business value. The system dramatically simplifies IT through quick deployment, intuitive management, deployment consulting, and support. You can simplify your IT landscapes by deploying reusable virtualized SAP HANA VMware templates, in minutes, instead of having to configure each instance individually.

Virtualizing SAP HANA also helps to speed deployment of new applications, giving you the flexibility to make application changes and updates with ease. Unified management tools allow you to manage your SAP HANA environment using the same tools you use to manage your VMware-virtualized data center. The unified management portal gives you access to VMware-enabled abstraction, pooling, and automation of the entire compute layer, enabling rapid application provisioning on any hardware stack and on vSphere-based private or public clouds.

You can also simplify sizing of new environments, and reduce costs and delays associated with sizing errors by standardizing on virtual SAP HANA templates across your data center. Self-service features allow designated users to easily provision infrastructure, platform, and desktop services in minutes from the on-demand self-service portal and catalog.

**Virtualize SAP HANA on HP and VMware today**

HP and VMware together have developed a comprehensive solution, empowering you to transform your business and maximize value, by optimizing transactional to analytic workloads. This gives IT the power to redefine economics, and allows the business to leverage IT as a true source of competitive advantage—helping to drive business innovation. You can reduce your risk and increase your time to value with consulting and deployment services from HP Technology Services, who have the expertise and the knowhow to configure and deploy SAP HANA virtualized.

Learn more at:

- [hp.com/go/sap/hana](http://hp.com/go/sap/hana)
- [vmware.com/go/sap-hana](http://vmware.com/go/sap-hana)