# THE POWER OF SAP HANA, DELIVERED BY DELL AND RED HAT

**BROCHURE**

## THE OPERATING SYSTEM FOR SAP HANA

- Simplify your IT landscape by standardizing on one operating system.

- Take advantage of your options and choose the platform that best supports how you want to use SAP HANA.

- Support your SAP HANA deployment with exceptional performance, reliability, and scalability.

Red Hat, Dell, and SAP offer a complete solution that helps you manage and derive insight from today's explosion of data. Red Hat® Enterprise Linux® for SAP HANA® is a powerful, cost-effective platform that gets you up and running quickly, so you can meet the needs of demanding enterprise environments.

Dell offers powerful, comprehensive solutions for the SAP HANA platform, from modular, scalable hardware to services that move customers rapidly from a business case through a proof-of-concept to a full SAP HANA deployment, all without disruption.

SAP HANA is an in-memory platform that can process transactions and analytics on a single data copy. It includes a database, advanced analytics processing, and application and integration services in a single platform. This simplifies IT landscapes, speeds up business processes, and allows smarter business innovation.

## STANDARDIZE AND ACCELERATE DEPLOYMENT

Executives need business data to act and are frustrated with the lack of real-time visibility. IT attempts to juggle numerous data and analytics requests, without missing reporting deadlines. It is difficult for IT to meet the needs of business stakeholders when the infrastructure for analytical reporting is unable to handle the demand. Overworked systems and teams can take a long time to go through the steps of data processing and analysis. They require time to:

- compile the data.

- clean the data.

- load the data.

- format the data.

- report the results.

- refresh the data and start all over again.

SAP HANA combines transactional and analytical processing in one system on one data copy. It can perform real-time analytics on massive amounts of data and a variety of datasets. It also includes a rapid development environment for SAP and custom-built applications.

With SAP HANA, data management is simplified by reducing data copies, aggregates, indexes, and the need for separate database instances for online transaction processing (OLTP) and online ana-lytical processing (OLAP). By eliminating the divide between transactions and analytics, SAP HANA allows you to accurately answer any business question, anywhere, in real time.

When you place predictive analytics, spatial processing, text analytics, streaming data processing, data virtualization, and data integration capabilities on the same system with the existing database and Apache Hadoop or Apache Spark on the same system where transactional data is captured, you can innovate with big data and make it simpler and faster to use. SAP HANA improves performance and sim-plifies processes. This approach provides real-time access to results gleaned from mountains of data.

SAP HANA's in-memory capabilities dramatically increase the availability and speed of business information, which allows real-time insight for decision making, improves business performance, and fuels innovation.

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## LEADERS IN ENTERPRISE I.T.

### RED HAT

Red Hat Enterprise Linux provides a stable, secure, flexible platform for achieving real-time insight using the SAP HANA platform. This solution is the result of a collaborative engineering relationship between SAP and Red Hat, and includes technology optimized to meet the unique requirements of SAP HANA.

Red Hat Enterprise Linux for SAP HANA has the capabilities and features that companies rely on, including the XFS file system to support very large files and tuned profiles that optimize SAP HANA performance. Red Hat provides much more than an operating system—it offers a portfolio of solutions that address IT needs across the enterprise. Red Hat Enterprise Linux for SAP HANA supports development of all types of application and datacenter initiatives, from private cloud to hybrid cloud.

Red Hat Enterprise Linux for SAP HANA delivers the capabilities and features that customers expect from Red Hat Enterprise Linux.

| BENEFIT | DESCRIPTION |
|---|---|
| Performance | Red Hat Enterprise Linux is a high-performing operating system, which is particularly important when benchmarking criteria like I/O speed. I/O speed is crucial to the performance of an in-memory data platform like SAP HANA. |
| Reliability | Red Hat Enterprise Linux customers are able to deliver 99.999% up-time to their enterprise users,[2] in part due to its reliability, availability, and serviceability (RAS) features and fine-grained performance management capabilities, which are highly valuable for SAP HANA deployments. |
| Scalability | Systems built on Red Hat Enterprise Linux host demanding workloads and scale to handle petabytes of data. |
| Support and trust | Integrated, proactive single-ticket support is available through SAP Solution Manager. |

### DELL

Dell platforms can handle even the most demanding application requirements. When running Red Hat Enterprise Linux, Dell delivers clear advantages, including:

- better performance.

- improved agility.

- greater scalability.

- lower total cost of ownership.

A comprehensive service and support portfolio takes advantage of Dell's considerable experience in running SAP landscapes for its customers. And Dell's innovative engineering and services help customers quickly experience the business advantages SAP HANA provides.

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1   *Red Hat client data and* **Fortune Global 500 list***, 2014*

2   *For more information, see* **Red Hat and Meteorcomm press release** *(http://red.ht/1UUnOII) and* **Red Hat Stratus case study** *(http://www.redhat.com/pdf/healthcare/Red_Hat_Stratus_Uptime.pdf).*

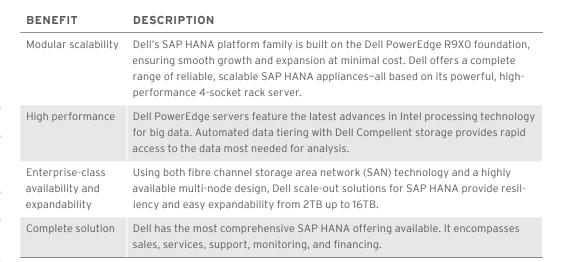| BENEFIT | DESCRIPTION |
|---|---|
| Modular scalability | Dell's SAP HANA platform family is built on the Dell PowerEdge R9X0 foundation, ensuring smooth growth and expansion at minimal cost. Dell offers a complete range of reliable, scalable SAP HANA appliances—all based on its powerful, high-performance 4-socket rack server. |
| High performance | Dell PowerEdge servers feature the latest advances in Intel processing technology for big data. Automated data tiering with Dell Compellent storage provides rapid access to the data most needed for analysis. |
| Enterprise-class availability and expandability | Using both fibre channel storage area network (SAN) technology and a highly available multi-node design, Dell scale-out solutions for SAP HANA provide resiliency and easy expandability from 2TB up to 16TB. |
| Complete solution | Dell has the most comprehensive SAP HANA offering available. It encompasses sales, services, support, monitoring, and financing. |

## ABOUT RED HAT

Red Hat is the world's leading provider of open source solutions, using a community-powered approach to provide reliable and high-performing cloud, virtualization, storage, Linux, and middleware technologies. Red Hat also offers award-winning support, training, and consulting services. Red Hat is an S&P company with more than 80 offices spanning the globe, empowering its customers' businesses.

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## ONE SOURCE FOR SAP HANA SERVICES AND SUPPORT

Dell is your single source for all solution components—including SAP HANA software licenses and Red Hat Enterprise Linux for SAP HANA subscriptions. Dell Services provides complete solution support and consulting expertise, along with financing.

Need help assessing your SAP HANA needs as soon as possible? Dell offers specific SAP HANA services to assist with your implementation:

• Managed Services for SAP HANA

• SAP HANA Executive Workshop

• SAP HANA Proof of Concept

• SAP Modernization Services

• SAP HANA Implementation Workshops

• Analytics Factory

• Dell ZeroIMPACT Migration Services for SAP HANA

• SAP HANA Database Replication Services

## GET STARTED

The business imperative for SAP HANA is clear: you need faster transactions and analytics on fresh data and you need it now. As the foundation for a new class of real-time applications, SAP HANA helps businesses stay ahead of the competition through simplicity and speed. Rapid actionable insight leads to rapid decision-making and rapid outcomes, creating business agility that lets you proactively respond to changing markets.

Red Hat and Dell, in partnership with SAP, can help you get real-time insight into business operations that change the way your company makes decisions. With Dell and Red Hat, the road to SAP HANA is short, smooth, and cost-effective.

Contact your Red Hat or Dell sales representative or visit **redhat.com/dell** and **dell.com/hana** for more information.