Enabling the Intelligent Enterprise
Modernizing IT for SAP S/4HANA running on SUSE Linux Enterprise with Intel-based Dell EMC infrastructure

ABSTRACT
For organizations on the road to a next-generation SAP environment and the intelligent enterprise, a significant transformation lies ahead. It's important to begin this journey with a broad understanding of the software, hardware, and services that enable transformation, as well as the benefits and implications of leveraging new applications and technology.

To promote this high-level understanding, this white paper:
• Explores the benefits of SAP HANA® and SAP S/4HANA®
• Outlines key considerations for planning a path to SAP HANA and S/4HANA
• Highlights key software, hardware, and services that drive IT transformation
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ENABLING THE INTELLIGENT ENTERPRISE

The digital era offers incredible opportunities for businesses, but it also brings significant challenges. IT departments around the world struggle to empower the business with fresh insights from the data in complex, isolated systems. To gain these essential insights, your IT organization needs a modern infrastructure built to deliver the performance, scale, protection, and availability required by new mission-critical, data-driven, intelligent applications.

SAP S/4HANA®, together with SAP® Leonardo, helps your organization address these needs. It brings together structured business data with data from the Internet of things (IoT) and other sources and replaces classic SAP enterprise resource planning (ERP) and Business Suite applications with powerful in-memory and edge processing. The result is a comprehensive SAP solution that enables real-time insights for business processes, machine learning, and artificial intelligence (AI) — and provides the future for the intelligent enterprise.

THE TIME IS RIGHT TO MOVE FORWARD

SAP has announced that it will offer only mainstream maintenance for SAP Business Suite 7 core application releases until the end of 2025. As the SAP HANA database and platform are the strategic foundation for next-generation data-driven intelligent applications, S/4HANA will run only with the SAP HANA database. Given these impending changes, the time is right for your organization to lay the groundwork for adopting SAP HANA and moving to SAP S/4HANA.

PLANNING A PATH TO SAP HANA AND S/4HANA

Digital transformation is a journey that takes different routes for different organizations. While everyone’s path forward is unique, most organizations share some common objectives, including the need to sustain traditional SAP deployments while migrating to SAP HANA and S/4HANA.

More specifically, these objectives typically include the need to:

• Set a modern IT foundation that consolidates and simplifies IT to lower total cost of ownership (TCO) and increase productivity for traditional SAP landscapes, while creating an infrastructure that’s ready for SAP HANA
• Run SAP in a cloud operating model for greater agility with higher-value features, such as self-service, orchestration, and application lifecycle management
• Enable new data-driven intelligent applications and business processes, powered from the edge to the core

Let’s take a look at each of these objectives for organizations that want to plan a path to SAP HANA and S/4HANA while balancing the need to reduce cost and simplify IT for SAP landscapes.

SET A MODERN IT FOUNDATION

Historically, IT has run SAP production and non-production systems on siloed infrastructure, whether by design, to protect production performance, or by the deployment of ad-hoc projects that meet targeted needs. This fragmentation strains your valuable IT budgets and resources with the burdens of maintaining, monitoring, and managing sprawling, complex system landscapes.
A modern IT foundation helps your organization consolidate and simplify IT for SAP landscapes, including the adoption of SAP HANA and S/4HANA. This foundation enables your IT team to redefine agility, performance, protection, and availability for mixed workloads with varying operating profiles, such as online transaction processing (OLTP), online analytical processing (OLAP), and big data.

**RUN SAP IN A CLOUD OPERATING MODEL**

Many enterprises run their core SAP applications on-premises. As they modernize their IT infrastructures, they increasingly look for solutions that provide agility, high availability, operational efficiency, and optimized control for the most mission-critical and demanding SAP enterprise production environments. These are among the benefits of running SAP in a cloud operating model.

The cloud operating model starts with a future-proof infrastructure foundation designed to run traditional SAP ERP and BW applications with emerging intelligent applications powered by SAP HANA and S/4HANA. The modern infrastructure serves as the foundation for the entire cloud environment. It enables your IT team to respond to the pressure from all sides — developers, end users, line-of-business owners — to quickly deliver the right IT services and applications to support the business, no matter what the project requires.

**ACCELERATE DECISION MAKING FROM THE EDGE TO THE CORE**

Data-driven applications bring SAP HANA business data together with external IoT, machine learning, AI, and big data to fuel intelligent applications and business processes. In this new world, data is aggregated, pipelined, managed, and stored from the edge to the core.

To capture value from all of this data, your organization needs a comprehensive IT framework and strategy to orchestrate data management across distributed, complex IT landscapes on secure, scale-out infrastructure. This foundation serves as the platform for building and deploying SAP Leonardo-based industry use cases.

In addition, this foundation enables your enterprise to accelerate decision making at the edge — because not all IoT data will be processed at the core data center in SAP HANA. IoT edge computing includes SAP applications and use cases supporting decisions that need to be made locally, with smaller subsets of aggregated data being transmitted to the core.

**SOLUTIONS TO ENABLE THE INTELLIGENT ENTERPRISE**

For organizations on the road to a next-generation SAP environment, a significant transformation lies ahead. It's important to begin this journey with a broad understanding of the software, hardware, and services that enable transformation, as well as the benefits and implications of leveraging new applications and technology.

If your organization is on this path to the future, Dell EMC, Intel, SUSE, and SAP are your ideal partners. Together, our team brings together the hardware, operating system and application software, services and expertise you need to design and deploy a comprehensive solution for your enterprise environment.

In this section, we walk through some of the key components that come together to create a robust enterprise environment built around products from SAP, Dell EMC, Intel, and SUSE.

**SOFTWARE**

There are many software packages available to provide accounting systems, resource planning, execution, scheduling, and inventory, among other use cases. With those in mind, enterprises should carefully review their short- and long-term needs and operational requirements balanced with financial plans. Of the many software providers, SAP stands out as a viable platform that supports many industries. SAP has been in the business for many years and offers a wide range of Industry 4.0-enabling software solutions.
In particular, SAP offers a variety of applications designed to give enterprises the information they need, when they need it. SAP has designed SAP S/4HANA to be the digital core of an enterprise IT landscape. SAP S/4HANA harmonizes planning and execution processes. It provides the capacity to connect with IoT devices to automatically respond to fluctuating signals, as well as to provide predictive indicators for preventative maintenance and product service, with deep insight into the cost implications and tradeoffs of different scenarios.

SAP S/4HANA enables enterprises to react quickly to variable market demand, predict operational issues, and improve performance by streamlining and integrating the entire product lifecycle — from planning and scheduling to sequencing, execution, and analysis. With SAP S/4HANA providing the most current information on demand, processes, resources, and capacity are tightly aligned to market demands for optimal production efficiency and profitable and timely delivery of products.

SAP Leonardo, SAP’s digital innovation system, enables rapid innovation to help enterprises reimagine their businesses. With its portfolio of capabilities — including SAP Leonardo IoT, SAP Leonardo Machine Learning, SAP Leonardo Analytics, SAP Leonardo Big Data, and SAP Leonardo Blockchain — Leonardo powers a digital approach to enterprise processes using the SAP HANA platform.

Leonardo ties together a connected network of people, processes, and things, and applies business context to the real-time insight generated from this network. And Dell EMC is the first to have an SAP-certified Leonardo gateway device that allows for processing at the edge and data streaming back to the core.

**SAP S/4HANA PLATFORM**

SAP HANA is an in-memory data platform that enables organizations to accelerate business processes, deliver more customer and business insights and intelligence, and simplify IT environments with analytics and predictive insights. SAP HANA Streaming Analytics adds real-time streaming analytics to the SAP HANA platform. This makes it easy for developers to incorporate smart stream capture and active event monitoring, alerting, and event-driven response capabilities to their SAP HANA applications.

SAP S/4HANA is a real-time enterprise resource planning suite built to take advantage of the SAP HANA in-memory computing platform. SAP S/4HANA removes common obstacles associated with legacy ERP applications, such as batch latency, complex landscapes, and manually driven processes. The result is incredible flexibility and speed enabled by a dramatically simplified data model.

**SAP HANA DATA ACCESS, INTEGRATION, AND VIRTUALIZATION**

SAP enables enterprises to get data from any source without sacrificing performance with built-in SAP HANA data access, integration, and virtualization capabilities. SAP HANA supports federated queries, data replication, remote data sync, and processes to improve data quality. These capabilities allow staff to access data from inside and outside the organization for full visibility in a simplified IT landscape.

**SAP ANALYTICS CLOUD AND SAP DIGITAL BOARDROOM**

SAP Analytics Cloud combines all analytics capabilities — including planning, predictive analytics, and business intelligence (BI) — in a single solution delivered under a software-as-a-service (SaaS) model. IT staff can take advantage of modern, intuitive user experience — and save time by planning, analyzing, predicting, and collaborating in context.

SAP Digital Boardroom, in turn, equips enterprise leaders with real-time contextual information, ad hoc reporting and what-if analysis for better planning and decision making.
SAP HANA ENABLES REAL-TIME SUPPLY CHAIN INSIGHTS

Using the SAP HANA in-memory database technologies, data from supply chain resources like machine learning, artificial intelligence, and other data-gathering systems can be quickly turned to actionable insights. These insights can help increase management insights and reduce supply chain issue response time, bringing costs down and increasing company profits and customer satisfaction.

With SAP HANA, the enterprise data hub becomes the repository for all data, including structured and unstructured data sets, big data, and streaming data from sensors and IoT devices. SAP HANA is designed to handle this type of data by processing transactions and analytics at significant speeds in-memory. In the process, SAP HANA transforms these types of data to deliver real-time analytical insights.

INFRASTRUCTURE

Dell EMC infrastructure components for enterprises include the compute power of Dell EMC PowerEdge™ servers with the latest Intel® Xeon® processors, in combination with Dell EMC software, storage, and networking products. Dell EMC offers a portfolio of infrastructure options that include quick-to-deploy Ready Nodes and Ready Systems. To make it easier for technology leaders to decide on a deployment model that is best for them, Dell EMC offers these certified SAP HANA Ready Solutions optimized for SAP analytics workloads.

The Dell portfolio for SAP solutions includes support for any cloud operating model, from on-premises to hybrid to public cloud. The cloud solutions include hyper-converged and converged platforms that are virtualized with VMware software. Moreover, data protection for business-critical SAP systems is available to address business SLAs. Also available from Dell Technologies is Virtustream cloud solutions.

DELL EMC READY SOLUTIONS

- Dell EMC Ready Nodes are built on Dell EMC PowerEdge servers with Intel Xeon processors, available as ready-built appliances and delivered with SAP HANA software pre-loaded or provided as a Tailored Data Center Integration (TDI) where the HANA database is installed on-premises.

THE FIRST SAP-CERTIFIED IOT EDGE DEVICE

In July 2017, Dell EMC introduced the first SAP-certified Dell EMC Leonardo IoT Gateway edge device. By combining the Leonardo-certified Dell IoT Gateway with SAP solutions, organizations can integrate IoT edge devices in minutes, not hours or days.

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**Figure 1.** Dell EMC Ready Solutions are SAP Certified and provide choice and flexibility for enterprises.
• Dell EMC Ready Systems are ready-built systems with the convenience of an appliance and the flexibility of TDI, including options that incorporate Dell EMC VxBlock, VxRail, and VxRack systems.

DELL EMC CONVERGED AND HYPER-CONVERGED SYSTEMS
The Dell EMC converged and hyper-converged portfolio, including VxRail, VxRack, and VxBlock, provides the ease of deployment and hybrid cloud deployment power to harness even the largest data analysis challenges. In addition, Dell EMC Isilon scale-out storage solutions provide native HDFS (Hadoop Distributed File System) storage for big data that enables the Hadoop data lake. All of these components of the modern data center are powered by Intel processors and technologies.

HYBRID AND CLOUD OPTIONS
Most industries still employ on-premises solutions. However, many software deployments — whether for sandbox, testing, quality assurance (QA), or production environments — are progressively moving to a cloud operating model (private, public, and hybrid clouds). To meet customers' needs, Dell EMC offers a complete selection of fully managed cloud and hybrid cloud solutions for off-premises SAP HANA environments.

• Hybrid cloud — Dell EMC offers a mix of on-premises, private cloud, and public cloud services from Virtustream, a Dell Technologies company, with orchestration between the platforms. Such configurations enable workloads to move between private and public clouds as computing needs and costs change, giving businesses greater flexibility and more data deployment options. The Dell EMC Enterprise Hybrid Cloud solution brings together hardware, software, and services from Dell EMC, SUSE, and VMware into a platform to deliver the foundation for infrastructure as a service. Dell EMC and VMware engineering teams have designed, tested, and proven the hybrid cloud solution in multiple workload settings, so organizations can avoid risk and accelerate time to production value.

• Off-premises managed cloud for SAP — Virtustream offers private, hybrid, and public cloud solutions, along with an unparalleled platform for running SAP and SAP HANA workloads in the cloud. Virtustream cloud solutions are purpose-built to run complex, mission-critical, I/O-intensive applications like SAP with unmatched economics, application-
level performance SLAs, and integrated security and compliance. Virtustream pre-sales experts and consultants have extensive experience working directly with SAP applications. They have the expertise to seamlessly migrate SAP deployments to the cloud.

OPERATING SYSTEM

SUSE LINUX ENTERPRISE SERVER FOR SAP APPLICATIONS

SUSE® Linux Enterprise Server (SLES) is the leading Linux platform for SAP infrastructures. More than 10,000 SAP customers rely on SUSE Linux Enterprise to run their SAP applications. SUSE Linux Enterprise is known as a highly reliable, scalable, secure, and optimized server operating system that is built to power physical, virtual, and cloud applications.

SAP and SUSE work closely together to validate and test SUSE Linux Enterprise Server for SAP Applications to maximize the capabilities of the customer's SAP infrastructure. Because SUSE Linux Enterprise Server for SAP Applications is validated by SAP, it is uniquely positioned to support all of your SAP software solutions.

SUSE Linux Enterprise Server for SAP Applications provides significant benefits over other Linux distributions by using best practices to reduce risk. Among other advantages, SUSE delivers:

• Optimizations for SAP applications, including additional SUSE products, which can help streamline the management and maintenance of any SAP Landscape
• Optimizations for business continuity of SAP HANA and SAP NetWeaver
• Extended support for the longer lifecycle of SAP Landscape deployments
• Improved security through encryption and best practices

OPTIMIZED FOR SAP APPLICATIONS

SUSE Linux Enterprise Server for SAP Applications is the original enterprise Linux operating system optimized for all mission-critical SAP HANA and SAP NetWeaver software solutions and is the globally recognized leading OS for SAP HANA.

At the core of SUSE® Linux Enterprise Server for SAP Applications 15 is SUSE's common code base, a world-class, secure, open source operating system built to power mission-critical physical, virtual, and cloud-based workloads. A critical component is a modern 4.12 Linux kernel that provides a core foundation that enables you to maximize service uptime, provide maximum security for all of your application needs, and create a cost-effective infrastructure with the support of a wide range of hardware platforms.

Additionally, SUSE Manager helps SAP Basis administrators and IT operations centrally manage the servers — physical, virtual, and cloud — that make up each SAP Landscape. SUSE Manager automates server provisioning, patching, and configuration management for faster, consistent, and repeatable server deployments, efficiently optimizing operations and reducing costs. To better improve compliance with internal security policies, SUSE Manager provides detailed Common Vulnerabilities and Exposures (CVE®) auditing and analysis.

OPTIMIZED FOR BUSINESS CONTINUITY

SUSE Linux Enterprise Server for SAP Applications includes the SUSE Linux Enterprise High Availability Extension that supports a choice of multiple High Availability/Disaster Recovery (HA/DR) scenarios for SAP HANA and SAP NetWeaver. Included is Relax and Recover (ReaR), which is a simple-to-use bare-metal disaster recovery solution.

Implementing a powerful private cloud for SAP HANA

Starting in the mid-2000s, Endress+Hauser ran its SAP applications using SUSE Linux on a mainframe system. However, because this configuration was not certified for a planned migration to SAP HANA, the company decided to transfer its system to another IT environment. The measurement and automation technology specialist evaluated the alternatives and selected a complete IT infrastructure solution from Dell EMC for its migration. Dell EMC was able to meet all of the deadlines and budgetary requirements for the project, enabling Endress+Hauser to speed up its SAP project by two months.

READ THE CASE STUDY
Exclusive to SUSE Linux Enterprise Server for SAP Applications, the SAP HANA High Availability Resource Agents offering enhances SAP HANA System Replication capabilities by automating the process of switching from a failing primary system to a secondary system. These automation capabilities help your team eliminate manual operations to reduce recovery time from hours to minutes depending on the database size. SUSE supports performance-optimized, cost-optimized, and multi-tenant HA scenarios for scale-up and scale-out configurations.

As an additional SUSE product, SUSE Linux Enterprise Live Patching provides live kernel patching for stability and security updates without the need to reboot a server. Your administrators can apply a kernel patch to a running SAP HANA system with no performance impact to the running SAP HANA instance. SUSE supports a server running for up to a year with live patches applied before needing to reboot.

EXTENDED SUPPORT FOR THE LONGER LIFECYCLE OF SAP LANDSCAPE DEPLOYMENTS

24x7 Lifecycle Priority Support is included for access to updates and technical support. Each Service Pack includes full support for 4.5 years, eliminating the need for Long Term Service Pack Support (LTSS). Customers can initiate a support request via regular SAP escalation channels: telephone, web front-end, customer service network (CSN), or SAP Solution Manager. The request will be immediately assigned to the SAP support request system, and SAP will contact SUSE if the request involves the OS. Customers also have the flexibility to contact SUSE Support directly for OS-specific inquiries.
SECURITY-RELATED FEATURES IN SUSE LINUX ENTERPRISE SERVER FOR SAP APPLICATIONS

As the foundation for your business, SAP Landscapes should have the highest possible security. SUSE has produced an Operating System Security Hardening Guide for SAP HANA for SUSE Linux Enterprise Server for SAP Applications 15.

SAP HANA Firewall configures the additional network zones to fully protect the in-memory system from external attacks. The firewall can be configured automatically or with a guided wizard for faster setup. Remote Storage Encryption Management provides a remote key server to store encryption keys of the SAP filesystem or SAP HANA data storage volumes on a landscape of hundreds or thousands of servers. This capability keeps data secure and reduces startup time after a system restart. Your company’s most valuable asset, data, is secure even in the unfortunate event that the storage devices used are disposed of with the SAP data still on them.

ADDITIONAL FEATURES INCLUDED IN SLES FOR SAP APPLICATIONS

An Installation Wizard uses configuration and tuning packages to automate setup for optimal performance. This includes the automation of the high availability stack as well as support for SAP HANA Tailored Datacenter Integration (TDI) deployments and multiple database containers. The Installation Wizard reduces the time and effort to set up an SAP system from days to hours.

Configuration and tuning packages include parameters specifically for optimizing the performance of SAP solution stacks on SLES for SAP Applications. These packages are used by the Installation Wizard to automate system setup, saving the time and effort of reading SAP notes and other configuration documents.

Workload Memory Protection is based on open source cgroup technology and protects selected applications’ memory from Linux kernel memory management. This makes it possible to sustain high performance of SAP applications that depend on data cached in memory for fast data retrieval. SAP client response time will benefit from Workload Memory Protection.

SAP S/4HANA Transition Support includes features that make it easier for SAP Basis administrators who are used to working with Microsoft Windows Server to be productive working with SAP HANA systems that run only on Linux. These features include Microsoft Remote Desktop Protocol (RDP) support to provide a familiar desktop environment, Active Directory Integration that eliminates the need to recreate user IDs and passwords, and a guide for how to execute common Windows administration commands with Linux.

In addition, a dedicated SAP-specific update channel delivers specific updates and features to maintain system performance of updated SAP applications in advance of the next service pack, without updating the base operating system.

Meet SAP challenges head-on

Together, Dell EMC, Intel, and SUSE offer future-proof solutions designed to invigorate legacy SAP applications, reduce costs, and facilitate the move to SAP S/4HANA. Here are some of the ways that we help your organization meet your SAP challenges head-on:

• Reduce the CAPEX and OPEX associated with running SAP in siloed IT systems. Free resources to focus on high-value SAP projects in your business.

• Gain faster time to value. Accelerate your HANA deployment with Dell EMC’s SAP HANA TDI-certified infrastructure and appliance portfolio.

• Reduce the time required to copy/refresh a system from days to hours by giving your SAP project teams and developers high-performance production copies with end-to-end automation.

• Accelerate decision making, edge to core. Capitalize on the opportunity to innovate with data-driven SAP Intelligent Enterprise applications powered by IoT, AI, blockchain, and machine learning.
TIPS FOR GETTING STARTED ON YOUR JOURNEY

When you’re ready to begin your journey to the intelligent enterprise, the first steps forward involve strategic planning considerations. While there are many ways to get started, many organizations follow a path along these lines:

• Determine the scope of your commitment to SAP solutions.

• Decide whether your enterprise favors a self-managed solution or if a hosting company (like Virtustream) will run the SAP operations for you.

• Decide whether your enterprise favors an on-premises or hosted deployment, or perhaps a deployment of SAP solutions in a public cloud setting.

• Understand the implications of switching to a new database platform and a new or refined set of applications. Consider the impacts on staffing, resource acquisition, third-party contracts, IT staff, and end-user training.

• Depending on the answers to the above, engage with a trusted partner or partners to kick off your projects.

BETTER TOGETHER: DELL EMC, INTEL, SUSE, AND SAP

Together, Dell EMC, Intel, and SUSE stand ready to work with your organization on the journey to SAP HANA and SAP S4/HANA. Our team can help your team achieve better outcomes by putting SAP systems to work to accelerate innovation and the intelligent enterprise.

The solutions for enterprises from Dell EMC, Intel, SUSE, and SAP bring together all the hardware, operating and application software, services, and expertise you need to design and deploy a comprehensive solution that spans a broad environment.

• Dell EMC provides a blueprint for industry-leading solutions that leverage proven infrastructure components and powerful hardware, including Intel Xeon processors, required to drive real-time analytics.

• Intel processors empower Dell EMC edge, core, and cloud solutions to run at peak capacity and enable world-leading benchmark performance.

• SUSE enables enterprises and other large organizations to deploy physical, virtual, and cloud SAP workloads leveraging SUSE Linux Enterprise Server for SAP Applications.

• SAP provides leading-edge solutions for the intelligent enterprise, in which data feeds intelligence, which in turn feeds process automation and innovation.

Ultimately, the combination of powerful hardware components, sophisticated operating and application software, and a leading in-memory database enables your organization to leverage enterprise-class solutions that enhance your customers’ lives and help reduce your capital and operational costs.
DELL EMC

Dell EMC, a part of Dell Technologies, services its customers — including 98 percent of the Fortune 500 — with a broad, innovative infrastructure portfolio that spans from edge to core to cloud. A strategic SAP technology and software partner for more than 20 years, Dell EMC is a leader in server and storage performance benchmarks for SAP HANA and SAP applications.

SUSE

SUSE is a global open-source software company that develops and sells Linux and an array of other enterprise-ready open source products and support services to business customers. The primary distribution from SUSE is SUSE Linux Enterprise Server (SLES), aimed at enterprises seeking robust support for their application and database workloads, whether in physical, virtual, or cloud-based environments. Other SUSE offerings include SUSE Manager, SUSE OpenStack Cloud, SUSE Enterprise Storage, and SUSE Container as a Service Platform, all of which may be implemented as part of a comprehensive SAP system infrastructure strategy.

INTEL

Intel is a world leader in the design and manufacturing of essential products and technologies that power the cloud and an increasingly smart, connected world. Intel delivers compute, networking, and communications platforms to a broad set of customers, including original equipment enterprises (OEMs), original design manufacturers (ODMs), and cloud and communications service providers, as well as industrial, communications, and automotive equipment manufacturers.

SAP

SAP SE is a multinational software corporation that makes enterprise software to manage business operations and customer relations, including SAP HANA for in-memory, high-speed computing. The company has more than 335,000 customers in over 180 countries.

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To learn more:

• Contact your Dell EMC or SUSE account representative.

• Contact DellTeam@suse.com or visit suse.com/partners/alliance/dell/

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