

Reliable Agility for Your Enterprise with SAP HANA, SUSE and Fujitsu PRIMEFLEX

SAP HANA offers the promise of a streamlined SAP landscape and real-time business agility. The key is to implement that promise without overly complicating your IT environment. Luckily, SUSE and Fujitsu have come together to offer a tailored, future-proof infrastructure solution that simplifies your path to a highly reliable and available SAP HANA platform.

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Get the Most from Your SAP HANA Investment

SAP HANA can help enterprises embrace today's digital landscape. The in-memory database can help you solve complex problems; make faster, smarter decisions; and aid in keeping your company agile. But you must implement SAP HANA carefully to avoid compounding the issues of complexity that IT departments deal with every day.

SUSE and Fujitsu can help meet your need for mission-critical systems that require high performance, maximum uptime and the option to scale up or out. With SAP HANA on Fujitsu Integrated System PRIMEFLEX for SAP HANA and SUSE Linux Enterprise Server for SAP Applications, you can simplify complex enterprise IT management and reduce IT expenses.

Target Audience

This white paper is meant for CIOs, solution architects and technical architects who plan to deploy SAP HANA. This paper contains links in various sections to technical guides for those in search of detailed information.

A Partnership Suited to Supporting SAP HANA

SUSE and Fujitsu have longstanding, trusted relationships with SAP. Fujitsu has been an SAP global alliance partner for over 40 years, and SUSE has maintained a joint testing and development relationship with SAP that started at the SAP LinuxLab in Germany in 1999. Additionally, 95 percent of all SAP HANA installations run on SUSE Linux Enterprise Server for SAP Applications, and SUSE was recently named an SAP HANA Innovation Award Winner 2017.¹

Since 2011, SUSE, SAP and Fujitsu have been working jointly on launching and improving world-class SAP HANA systems. Fujitsu

was the first to ship an SAP HANA appliance, and SUSE was the first operating system vendor for SAP HANA appliances. Fujitsu Japan was awarded the SAP Asia Pacific Japan Award for Partner Excellence for Partner Managed Cloud.² That experience makes the two companies perfectly suited to support SAP HANA in your enterprise.

The Best Way to Capture the Benefits of SAP HANA

The experience Fujitsu and SUSE have with SAP means they know the importance of optimizing the value of SAP HANA. They offer a highly reliable and high-performance infrastructure that helps support your mission-critical SAP HANA implementation.

That infrastructure is based on Fujitsu Integrated System PRIMEFLEX for SAP HANA and SUSE Linux Enterprise Server for SAP Applications. It acts as the perfect foundation for SAP HANA whether you use it as the cornerstone of your on-premises data center or connect it to applications in the cloud in a hybrid cloud scenario.

1 suse.com/communities/blog/suse-receives-sap-hana-innovation-award-2017-industry-disruptor/

2 <https://news.sap.com/sap-announces-recipients-of-regional-awards-for-partner-excellence-2018/>

Fujitsu's tailored, future-proof infrastructure solution for SAP HANA helps you to gather and analyze vast amounts of data in real time, safely and securely. SUSE Linux Enterprise Server for SAP Applications offers features that help ensure stability for critical workloads, including high availability with automated failover and security hardening through the operating system.

Together, the solution offers you the best way to achieve high availability while reducing complexity and optimizing your investment. Let's take a detailed look at the components of the solution now.

A Closer Look at the Components

SUSE Linux Enterprise Server for SAP Applications

The leading Linux platform for SAP HANA, SAP NetWeaver and SAP S/4HANA provides optimized performance and reduced downtime as well as faster migration and SAP HANA deployments. It is the premier operating environment for SAP solutions..

INCREASE SERVICE AVAILABILITY

It increases the service availability of mission-critical operations with built-in business continuity features that include automated data recovery; resource agents that automate the takeover in SAP HANA system replication setups; and full operating system rollback. You can find a setup guide for system replication [here](#). Fujitsu has also authored a [white paper that describes safeguarding business continuity for SAP HANA](#) and the way SUSE Linux Enterprise Server for SAP Applications and other technologies come together to provide that.

The solution includes a built-in firewall and encryption key management to help you protect data in your data centers. SUSE

also offers a unique guide to help you secure SUSE Linux Enterprise Server for SAP Applications for running SAP HANA, available [here](#).

A high-availability extension provides an integrated clustering solution for physical and virtual Linux deployments which allows you to implement highly available Linux clusters to eliminate single points of failure. This works with the SAP HANA system replication mentioned above and the resource agents provided by SUSE to create automated backup for your SAP HANA solution.

It also comes with extended service-pack support. This increases the time you have to upgrade to the next operating system service pack from six to 18 months. The idea isn't to put off upgrades, but to allow you to perform upgrades on the best schedule for your organization. For instance, you can align your operating system update with your SAP HANA updates to minimize planned downtime.

IMPROVE OVERALL PERFORMANCE

The SUSE Linux operating system is optimized for performance. The page cache limit protects performance by allowing the administrator to limit the amount of page cache used and free up memory for more important tasks. Upon installation, SUSE Linux Enterprise Server for SAP Applications makes it easy to set the right operating system parameters to run SAP HANA. A dedicated update channel delivers SAP-specific packages.

DECREASE DEPLOYMENT TIME

SUSE Linux Enterprise Server for SAP Applications combines application installation and superior support capabilities into a unified solution. Time-saving features include an installation wizard with tuning parameters; an installation configuration package that allows you to quickly and accurately configure SAP applications for optimal performance; easy integration with SUSE Manager; and priority support and maintenance 24 hours a day, seven days a week.

Fujitsu PRIMEFLEX for SAP HANA

PRIMEFLEX for SAP HANA is backed by 40 years of experience in delivering fast, secure, high-availability implementations with optimized total cost of ownership. The predefined and pretested infrastructure solution is based on SAP-certified components and leverages technologies from specialist partners such as SUSE.

The solution covers everything from preinstalled scale-up systems to customized disaster-tolerant setups, VMware virtualized

“SUSE Linux Enterprise Server for SAP Applications presented a number of advantages over Red Hat Enterprise Linux. In our assessment, SUSE Linux Enterprise Server for SAP Applications is unbeatable for reliability and performance in an SAP HANA environment.”

LUDI NEL

Technical Director
iSphere Technologies

“Our business acts more effectively and efficiently as a result of moving to Fujitsu PRIMEFLEX for SAP HANA. We have the ability to create and analyze the information we need with total reliability.”

WASSIM HAMWI

Vice President Group IT Service
Meydan Group

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platforms, and individual scale-up and scale-out concepts in line with the SAP HANA Tailored Datacenter Integration approach.

- *The PRIMEFLEX for SAP HANA single node or scale-up option features highly scalable SAP-validated appliances that are easy to implement and operate in your environment.*
- *The PRIMEFLEX for SAP HANA multi-node or scale-out option combines SAP-certified components for maximum flexibility in designing your solution. You get an SAP HANA infrastructure that meets your demands in terms of performance, availability, security and efficiency.*

No matter which option you chose, you get the excellent performance, scalability and efficiency of Fujitsu servers to support your SAP HANA implementation.

Powering Successful Enterprises around the World

Fujitsu and SUSE have helped organizations all over the world take advantage of SAP HANA. Nakilat, a Qatari natural gas transport company, has reduced the time it takes to generate reports from hours to seconds, all while capturing “dramatic cost savings.”

Reports sped up in a similar way after the Meydan Group, a Dubai entertainment and hospitality company, implemented its PRIMEFLEX for SAP HANA solution.

South African IT leader iSphere based its SAP HANA-as-a-service offering on a SUSE and Fujitsu solution and was able to move 12 customers to SAP HANA on the first day of its iHANA solution.

SUSE and Fujitsu: Helping You Thrive and Innovate with SAP Solutions

It's not impossible to control complexity in your IT environment and support SAP HANA at the same time. You simply need the right partners. With their long experience in SAP solutions, Fujitsu and SUSE can help you optimize the value of SAP HANA. Build a reliable, agile and interoperable foundation for the future of your business with Fujitsu and SUSE.

Learn More

Learn more about how SUSE and Fujitsu can provide a reliable foundation for your SAP deployment at: www.suse.com/fujitsu