

SUSE and Fujitsu: A Reliable, Agile Platform for SAP Applications

The increasing complexity of IT environments can reduce efficiency. Luckily, there are ways to implement SAP applications and SAP HANA without complicating your environment. SUSE and Fujitsu together can help you reduce complexity, guarantee high availability and optimize your investment in SAP solutions.

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Optimize Your Investment in SAP Solutions

SAP HANA and SAP applications can help enterprises embrace today's digital landscape. They can solve complex problems; help business leaders make faster, smarter decisions; and aid in keeping companies agile.

But you must implement SAP applications and 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 solutions from Fujitsu and SUSE, 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 already deploy or are planning to deploy SAP solutions. This paper contains links in various sections to more-technical guides for those in search of more detailed information.

A Partnership Suited to Supporting SAP Landscapes

A good SAP foundation starts with a trusted relationship with SAP, which SUSE and Fujitsu have. 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, 90 percent of all SAP HANA installations run on SUSE, and SUSE was recently named an SAP HANA Innovation Award Winner 2017.*

Fujitsu was the first to ship an SAP HANA appliance, and SUSE was the first operating system vendor for SAP HANA appliances.

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

The combination of all that experience will help you get the most from your SAP deployments.

A Reliable, Agile and Interoperable Foundation for SAP Landscapes

The experience Fujitsu and SUSE have with SAP means they know the importance of optimizing the value you get from your SAP technologies, particularly SAP HANA. They offer a highly reliable and high-performance infrastructure that helps support mission-critical SAP landscapes and that you can introduce into a heterogeneous environment without interrupting live operations.

Fujitsu's tailored, future-proof infrastructure solutions for SAP applications are based on SUSE® Linux Enterprise Server for SAP Applications. SUSE offers features that help ensure stability for critical workloads, including high availability with automated failover and security hardening through the operating system.

“We had a team of 14 that manually entered information to create a bill of material for each new design. That team now consists of three people who can create the necessary bill within seconds rather than hours.”

VISHAL ADHYAPAK
IT General Manager
Tara Jewels

Together, Fujitsu and SUSE make it easier to get the best out of your SAP landscapes, with Fujitsu Integrated System PRIMEFLEX for SAP Landscapes and Integrated System PRIMEFLEX for SAP HANA. Both run SUSE Linux Enterprise Server for SAP Applications, which provides integrated management functions to set up and run SAP-optimized infrastructure. Implementation, operation and enhancements are highly automated. To ensure efficient provisioning of optimal performance, you can allocate system resources dynamically and distribute workloads with flexibility. Let's take a detailed look at the components of the solution.

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 landscape 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](#).

The solution includes a built-in SAP HANA firewall and storage encryption management to protect data in remote data centers. SUSE also offers a unique guide to help you secure SUSE Linux Enterprise Server for SAP Applications for running HANA: "[Operating System Security Hardening Guide for SAP HANA](#)."

A high-availability SAP-certified 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.

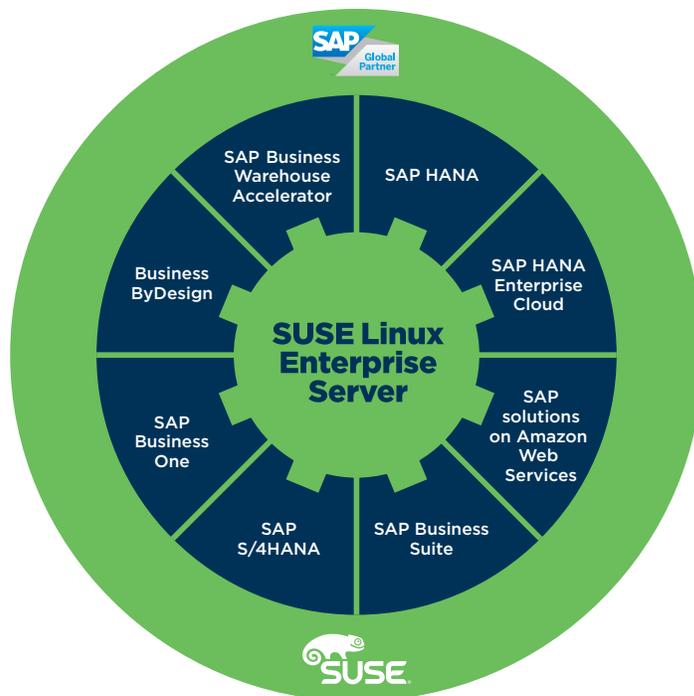
It also comes with Extended Service Pack Overlap Support. This increases the time you have to upgrade to the next operating system service pack from six to 18 months. The idea isn't to put off upgrades, but to allow you to perform upgrades on the best schedule for your organization. For instance, you 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 Management enhances performance by allowing the administrator to limit the amount of page cache used and prioritize memory for SAP applications. A dedicated update channel delivers operating system enhancements that correspond to SAP application updates.

DECREASE DEPLOYMENT TIME

SUSE Linux Enterprise Server combines application installation, migration 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 from both SUSE and SAP that helps you resolve issues with the operating system and SAP applications simultaneously.



Fujitsu PRIMEFLEX for SAP Landscapes

PRIMEFLEX for SAP Landscapes is backed by experience in delivering fast, secure, high-availability implementations with optimized total cost of ownership, successfully reducing complexity. The predefined and pretested infrastructure solution is based on SAP-certified components and leverages the technologies of specialist partners such as NetApp, VMware and SUSE.

With the advanced orchestration and administration capabilities of FlexFrame Orchestrator software, PRIMEFLEX for SAP Landscapes provides an optimized operational concept for the entire SAP landscape. You can deploy centralized SAP software components across physical and virtual resources based on business demand. The result is faster provisioning of innovations, resulting in an empowered, agile business. This applies to all IT provisioning models: on-premises, as a managed or hosted service, or deployed in the cloud.

Fujitsu PRIMEFLEX for SAP HANA

PRIMEFLEX for SAP HANA takes advantage of the same experience that goes into PRIMEFLEX for SAP Landscapes. The predefined and pretested infrastructure solution covers everything from preinstalled scale-up systems and VMware virtualized platforms, as well as individual scale-up and scale-out concepts in line with the SAP HANA Tailored Datacenter Integration approach, right through to customized disaster-tolerant setups.

You can get PRIMEFLEX for SAP HANA either preinstalled in the factory and delivered ready to run at your site, or delivered as a reference architecture, providing the flexibility to adapt it to your specific requirements. With the ready-to-run solution, everything is designed holistically with preintegrated servers, storage, network connectivity and software that operate harmoniously.

“We used to run reports overnight because they were so time consuming. Now, we can generate all analysis and reports within seconds or minutes—even at peak times, allowing us to be more responsive to market demands.”

ABHIJEET KOLESHWAR

Chief SAP System Manager
Sterlite Technologies Limited

The infrastructure is completely set up and tested in the factory staging center before delivery to you.

SUSE Linux Enterprise Live Patching

SUSE Linux Enterprise Live Patching is a smart open source solution that delivers live kernel patching for stability and security updates without the need to reboot. The subscription-based extension of SUSE Linux Enterprise Server for SAP Applications provides access to fixes for any SUSE Linux Enterprise Server 12 maintenance Linux kernel released in the last 12 months.

SUSE Linux Enterprise Live Patching is built on an open source technology called kGraft, which allows for runtime patching of the Linux kernel without having to stop the kernel. It keeps mission-critical systems running and allows you to avoid downtime with workloads such as in-memory databases, time-consuming simulations and compliance tasks.

With Live Patching, you can increase service availability, reduce planned downtime and maintain the security of your systems.

SUSE Manager

If you are not using FlexFrame Orchestrator to provision, manage and maintain your SAP Landscape, SUSE Manager can help keep your Linux systems running smoothly. It is a best-in-class open source IT infrastructure management solution for your software-defined infrastructure.

It allows DevOps and IT operations teams to reduce complexity and regain control of IT assets by enabling comprehensive management of multiple Linux distributions, systems, virtual machines and containers—all within a single, centralized solution. It simplifies the maintenance of your Linux deployments across physical, virtual and cloud environments.

The solution provides a graphical visualization of IT systems' status and their relationships and allows you to organize your Linux servers into logical groupings for easier management. You can also identify which Linux assets need attention at any time. From automated Linux server provisioning and patching to configuration of tens of thousands of servers, SUSE Manager helps you reduce costs, streamline operations and improve compliance and service quality.

As a result, your organization can decrease total cost of ownership while securing enterprise systems and improving compliance and service quality. You can find a setup guide for managing SAP HANA in a scale-out environment using SUSE Manager at: www.suse.com/promo/sap/hana/suse-manager-scale-out

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 landscapes 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 applications and SAP HANA. Build a reliable, agile and interoperable foundation for SAP landscapes and 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



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