



Mission Critical Security and Predictive Performance for SAP Applications

Why Unisys Forward!

*Forward!*TM is fabric architecture designed to optimize mission critical SAP and SAP HANA solutions with the flexibility of virtualized environments and the security, scalability and predictable performance of UNIX solutions. *Forward!* extends Unisys Mission Critical Computing capabilities on Intel Xeon x86, and builds on over three decades of Mission Critical Computing experience.

Why SUSE Linux Enterprise Server?

SUSE Enterprise Linux Server for SAP Applications is the only operating system optimized for SAP software solutions. With over 12 years of technology and engineering collaboration, customers worldwide benefit from tightly integrated products and services, as well as comprehensive support options.

Today's SAP Migration Solutions:

New environments require optimized solutions to support the need for mission critical computing and predictive performance.

SAP is the recognized market leader in the ERP application market with 24% market share according to Gartner. Their applications run many of the largest organization across the world and SAP is considered as the mission critical system to run their business.

SAP is making a fundamental architectural change with the development of SAP HANA. HANA is an in-memory database designed to improve system performance and provide the infrastructure for real time analytics and big data reporting across the enterprise. The in-memory database requires higher levels of system performance and much more memory to support the new HANA environment. SAP estimates the memory requirements will average terabytes of memory with a high end of 70 TB within a server cluster in 2014. They are challenging standard hardware platforms to support the new environments. Within this environment, SAP highly recommends dedicated hardware for predictive performance, security and system reliability.

HIGHLIGHTS

- Reduce the Cost of deploying SAP between 25-33%
- Save 75% on software licensing and Hardware and software maintenance
- Replace UNIX for the price of one year of maintenance
- Hard Partitioning for unmatched security, and predictable performance
- Fabric-based infrastructure for virtually unlimited scalability and flexibility
- Cut down time for analysis from days/hours to minutes/seconds

Joint Solution: Optimized platform for SAP Applications

Migrate to a cost effective solution with predictive performance, security and system reliability

The challenge for organizations is migrating to a platform and architecture to support the SAP and SAP HANA requirements. SAP is a mission critical application within many organizations and supporting the new HANA environment is a challenge given today's standard infrastructure solutions.

The foundation of the *Forward!* fabric solution is the s-Par[®] secure hard partitioning technology for Intel Xeon. s-Par creates a secure container isolating workloads in a virtualized partition similar to more expensive UNIX solutions for a more cost effective mission critical solution. The virtual partitions connect through memory or high speed software defined communications to simulate a multi-tiered system physical architecture. Both connections help to improve system performance through faster server communication providing an ideal platform for in-memory solutions such as SAP HANA. Mission critical environments can be deployed in hours versus weeks or months for traditional dedicated physical environments giving clients the tools to reduce the cost of implementation and the time to market.

Forward! provides a secure fabric architecture for mission critical applications like SAP. s-Par creates a secure virtual container designed to protect systems and data from standard VM vulnerabilities. Communications between partitions and servers are managed across secure out of bounds channels with the objective of preventing information from being hijacked while increasing the speed of communications. The *Forward!* platform integrates Unisys Stealth[™] for extreme security for the most secure Linux platform.

As the leading platform for SAP applications, SUSE Linux Enterprise Server for SAP Applications includes high availability components that provide an integrated clustering solution for physical and virtual Linux deployments enabling customers to implement highly available Linux clusters and eliminating single points of failure.

Your Business Case

Your organization demands that you do more with less, and that you develop your plan to take advantage of a cost effective architecture to support SAP HANA. The challenge for organizations is migrating to a platform and architecture to support the SAP HANA requirements.

According to Gartner, "65% of UNIX applications will migrate to x86 platforms primarily Linux by 2017."

For many considering migration and platform options for SAP HANA, the Unisys *Forward!* Architecture with SUSE Linux Enterprise Server for SAP Applications can provide a more cost effective, yet scalable, secure and predictable platform – the advantages are clear!

Approach

This joint solution takes a logical approach so that you get the best results, enabling you to reduce costs and realize a significant ROI. The solution is comprised of:

- Unisys *Forward!* Platform with secure hardened partitions and high speed interconnect to support large system clusters for in-memory databases.
- SUSE Linux Enterprise Server for SAP Applications, the only operating system optimized for SAP software solutions.
- Unisys Services and Support to provide for a successful implementation and operation.

Unisys & SUSE offer a well-designed and proven solution that delivers results.

Expertise

Unisys has over three decades of experience solving the challenges of mission critical computing. And, our growing list of customers illustrates our commitment to continue to develop superior solutions. We understand the challenges in the data center and the importance of a secure, scalable and predictive platform.

SUSE is preferred by 70 percent of SAP's Linux customers. With more than 12 years of technology and engineering collaboration, and the winner of SAP Pinnacle Awards, SUSE Linux Enterprise Server continues to be recognized as the leading Linux platform for SAP applications.

Summary

This optimized and integrated solution provides a cost effective platform with the predictive performance, security and system reliability required for mission critical applications like SAP HANA.

Forward! Architecture enables the secure partitions that mirror the characteristics of a dedicated solution on a more cost effective Intel Xeon platform.

Let Unisys, SUSE and SAP reduce risk, cost and complexity with the power and efficiency of the *Forward!* platform.

For more information visit:

<http://www.unisys.com/unisysandsuse>

<http://www.suse.com/suseandunisys>



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Estimates based on Unisys engineering models. Actual benefits may vary dependent on specific client implementations.