

Flex System Solution for SAP NetWeaver Business Warehouse Accelerator

Real-time analytics for your SAP Business Warehouse - powered by Lenovo Flex System



Figure 1: Lenovo Flex System

Timely access to relevant information has always been critical to business success. Many companies and institutions use SAP NetWeaver™ Business Warehouse (SAP NetWeaver BW) as a key element for business intelligence in their SAP application landscapes. However, query performance has often been a challenge. In many situations the use of SAP NetWeaver BW is limited to a relatively low number of power users as well as predefined reports. Today, more than ever, companies need instant insights to run their business and spread the use of SAP NetWeaver BW to many more users. They need a solution that delivers insight at high speed along with flexible scalability. Near real-time analytics have become a “must have” and Lenovo and SAP have the ideal solution.

Cost effective, snap-in acceleration

Lenovo offers an integrated solution that enables customers to deploy SAP NetWeaver Business Warehouse Accelerator (SAP NetWeaver BW Accelerator) in an easy, cost-effective way as a snap-in solution to an existing SAP NetWeaver BW landscape. Using Intel Xeon processor-based servers, the Flex System Solution for SAP NetWeaver Business Warehouse Accelerator offers users near real-time analytics when using SAP NetWeaver BW.

The Flex System Solution for SAP NetWeaver BW Accelerator crunches through terabytes of SAP NetWeaver BW data in a matter of seconds, without the need for dedicated database administrators building and maintaining pre-defined aggregates or spending valuable time on query performance-tuning. Flex System Solution for SAP NetWeaver BW Accelerator helps customers to implement SAP NetWeaver BW Accelerator as a mission-critical system, with minimal effort using standard functionality.

HIGHLIGHTS

- Deliver enhanced business results with super-fast BW query response time
- Lower TCO by renewing your outdated BWA landscape
- Speed deployment and simplify management with Lenovo Services

SOLUTION BRIEF

Flex System Solution for SAP NetWeaver Business Warehouse Accelerator

***Choose Flex System
SN550 compute nodes
and the storage system
that best meets your SAP
NetWeaver Business
Warehouse Accelerator
requirements.***



Figure 2: Lenovo Flex System SN550



Figure 3: Lenovo ThinkSystem DS4200



Figure 4: Lenovo Storage V3700 V2

SAP NetWeaver BW Accelerator significantly extends the traditional SAP NetWeaver BW offering by delivering:

- Query processing up to 200 times faster than traditional approaches.
- Smart data compression combined with in-memory processing and search engine-based parallel processing delivered with unmatched scalability, offering increased speed, flexibility and business insights.
- Turbo-charged insights and decision support that empowers SAP NetWeaver BW users.

Flex System compute nodes are the perfect fit for the infrastructure requirements of SAP NetWeaver BW Accelerator:

- Performance-tuned to support more SAP users.
- Low cost of operation with the broadest and deepest choice of configurations.
- Proven scalability within a single chassis and beyond.
- Integrated Virtual Fabric provides flexible virtual I/O for lower cost and higher system utilization.
- Flexible storage options to match your specific capacity, performance, cost and reliability needs.

Lenovo Storage systems complement the solution with:

- Fast and reliable access to large volumes of data, unleashing your compressed data and information assets.
- Dedicated Fibre Channel attachment, delivering fast index updating and reducing general network I/O traffic for greater performance.
- Robust systems with very high data integrity and fail-over capabilities for continuous operations.

Deep teaming by Lenovo and SAP – collaboration for your success

Lenovo and SAP teams have worked extensively on the development and certification of this solution, keeping it current with the latest processor, system and storage technologies. Lenovo and SAP continuously extend the solution to address new options for customers. In addition, Lenovo led the integration of high-availability and disaster recovery using features in the IBM Spectrum Scale (formerly General Parallel File System or GPFS™) file system, enabling clients to enhance system availability and deliver enhanced business results.

SOLUTION BRIEF

Flex System Solution for SAP NetWeaver Business Warehouse Accelerator

Solution benefits

- Dramatic enhancements in query response times, empowering information workers to become more effective and productive.
- Ability to run endless variations of ad-hoc queries and resolve performance constraints for database-intensive queries.
- Significant reduction in administrative effort due to reduced need to build and maintain aggregates.
- Scalable architecture that can grow with increasing requirements means investment protection and flexibility to react to changing business needs.
- Pre-tested, optimized and validated solution to deliver easy integration and quick implementation.

Leadership Technology

The Lenovo solution for SAP NetWeaver BWA includes the following components:

- Flex System Enterprise Chassis
- Flex System SN550 compute node
- Lenovo Storage V3700 V2 or Lenovo ThinkSystem DS4200
- SUSE Linux Enterprise Server operating system
- Industry-standard Ethernet switches
- Industry-standard Fibre Channel switches

Flex System SN550 Compute Node

- Latest 24-core Intel Xeon processor Platinum 8160 CPU
- Range of configurations from two to 28 nodes
- Industry-standard 16 Gb Fibre Channel adapter
- 128, 192, 288 or 384GB RAM per blade

Lenovo ThinkSystem DS4200 and Lenovo Storage V3700 V2

The Lenovo ThinkSystem DS4200 and Lenovo Storage V3700 V2 are versatile storage systems designed to provide simplicity, speed, scalability, security, and high availability for small to large businesses. Both storage systems deliver enterprise-class storage management technology in a cost-effective solution with a wide choice of host connectivity options, flexible drive configurations, and enhanced data management features. These storage systems offer excellent scalability ranging from the smallest to the largest SAP NetWeaver BW Accelerator configurations and include rapid setup for optimal performance and high availability.

IBM Spectrum Scale

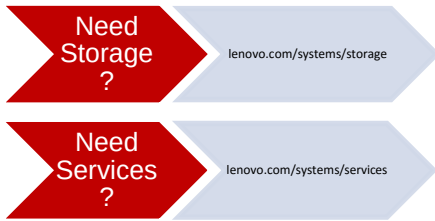
- IBM Spectrum Scale consolidates and virtualizes the storage into a single scale-out storage solution
- Performance optimized shared file system for Linux clusters
- Scalable file management system for SAP NetWeaver BW Accelerator which delivers superior SAP NetWeaver BW Accelerator index performance, user and data scalability which is unique to the Lenovo offering

Features:

- **Fast query response**
- **Proven, enterprise class infrastructure**
- **Delivered as an integrated solution**

SOLUTION BRIEF

Flex System Solution for SAP NetWeaver Business Warehouse Accelerator



High Availability with IBM Spectrum Scale

New High Availability feature enables a disaster-tolerant failover solution which enables an automatic reliable failover to a standby compute node or system in very short time

It assures all data indexed and committed before the disaster are preserved and available on the standby node

Proven “out-of-the-box” high availability to minimize downtime of the overall SAP NetWeaver BW and SAP NetWeaver BW Accelerator solution

Scaling and accelerating your deployment

You can take immediate advantage of the Flex System Solution for SAP NetWeaver Business Warehouse Accelerator. The first step is to determine the right configuration for your respective SAP NetWeaver BW landscape. Lenovo offers five categories (M, L to XXXL), with predefined server and storage configurations, validated by Lenovo and SAP. Sizing tools such as SAP Notes and SAP Quicksizer make the selection of the right SAP NetWeaver BW Accelerator configuration fast and easy. If needed, Lenovo solution experts, qualified Business Partners and SAP are available to support you in this process.

SAP NetWeaver BW Accelerator service offerings

Lenovo offers specific SAP NetWeaver BW Accelerator services to perform rapid implementation, maintenance and managed services to keep the SAP NetWeaver BW Accelerator solution up-to-date with the latest software and firmware levels. Should you require the solution to be integrated into specific IT processes like high availability, specialists and qualified Business Partners are at your service. Functional training and consulting services on the SAP NetWeaver BW/BW Accelerator applications are available from SAP and qualified global and regional consultants and systems integrators.

Why Lenovo

Lenovo is the leading provider of x86 systems for the data center. The portfolio includes rack, tower, blade, dense and converged systems, and supports enterprise class performance, reliability and security. Lenovo also offers a full range of networking, storage, software and solutions, and comprehensive services supporting business needs throughout the IT lifecycle.

For More Information

To learn more about the Flex System Solution for SAP NetWeaver Business Warehouse Accelerator, contact your Lenovo Business Partner or send an email to sapsolutions@lenovo.com or visit: www.lenovo.com/sap/bwa



© 2017 Lenovo. All rights reserved.

Availability: Offers, prices, specifications and availability may change without notice. Lenovo is not responsible for photographic or typographical errors. **Warranty:** For a copy of applicable warranties, write to: Lenovo Warranty Information, 1009 Think Place, Morrisville, NC, 27560. Lenovo makes no representation or warranty regarding third-party products or services. **Trademarks:** Lenovo, the Lenovo logo, System x, ThinkServer, ThinkSystem are trademarks or registered trademarks of Lenovo. Microsoft and Windows are registered trademarks of Microsoft Corporation. Intel, the Intel logo, Xeon and Xeon Inside are registered trademarks of Intel Corporation in the U.S. and other countries. Other company, product, and service names may be trademarks or service marks of others.

LZS12348-