

THE WORLD'S LARGEST DATA WAREHOUSE

ENTERPRISE DATA WAREHOUSE REFERENCE ARCHITECTURE FACT SHEET

The World's Largest Data Warehouse Next-Generation Technology Available Today

In response to the new realities of the current business environment, Sun and Sybase have joined forces to develop the Enterprise Data Warehouse Reference Architecture. The Reference Architecture addresses the need for simplicity, flexibility, scalability, manageability and investment protection.

Francois Raab, president of InfoSizing, Inc., an independent auditor who audits all TPC-H and other tests, has recently verified the world's largest data warehouse. The testing was conducted at Sun Microsystems' iForceSM Ready Center in Menlo Park, CA, USA on the Enterprise Data Warehouse Reference Architecture, a completely implemented solution based on Sun and Sybase products.

The tests were executed on a real world, fully functioning data warehouse based on open industry standards and commercially available systems, and not an artificially constructed benchmark or a research project.

The input data volume of 48.2 TB was compressed into 22 TB of storage compared to conventional implementations which explode data as much as 8X. The disk/input to data ratio is 0.46x, compared to 5x to 23x for conventional DBMS models. This Enterprise Data Warehouse Reference Architecture puts this solution in a very competitive position with conventional implementations which require large amounts of storage due to the data explosion required by their architectures and technologies. The data volume for this test is 16x larger than the largest industry standard benchmark.

Raising The Bar for VLDW

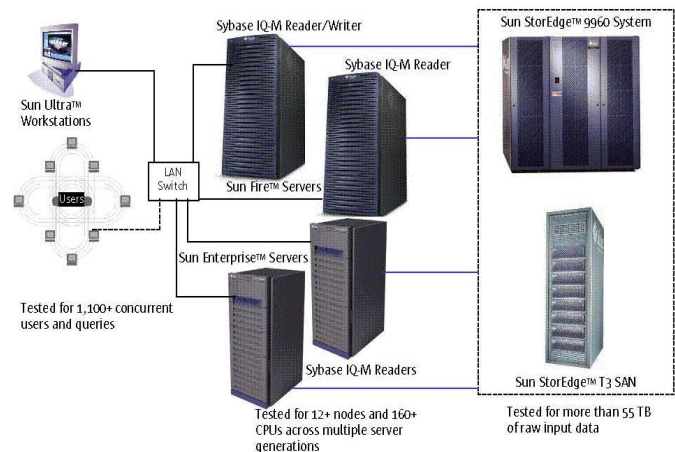
This new Reference Architecture for Very Large Data Warehousing (VLDW) sets a new standard in scalability, flexibility, manageability, availability, investment protection and TCO savings. As implemented, the Reference Architecture requires as much as:

- " 75-90% less storage
- " Delivers query speeds up to 1,000 times faster
- " Reduces installation and setup time by as much as 80%(compared to conventional data warehouse implementations, allowing analysis of years of data instead of months)

With this Reference Architecture businesses can analyze four times as much data for the same budget expenditure, delivering better business forecasting and better business management at the same price. Using other conventional solutions to accomplish the same task would be cost-prohibitive, complex and cumbersome.

Tested, Proven Solution

Sun's Enterprise Data Warehouse Reference Architecture has proven that the applications scale with intensive testing in the iForce Ready Centers Services. Since data bases always grow, knowing the architecture will grow and change with business needs reduces risk, decreases complexity and lowers overall TCO.



Key hardware elements of the architecture include Sun Fire™ 6800 Midframe™ servers and Sun StorEdge™ 9960 storage systems. Software for the Reference Architecture combines Sybase Adaptive Server IQ

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Multiplex software running on the Sun Solaris™
Operating Environment.

Customer Benefits

- " The Enterprise Data Warehouse Reference Architecture helps customers with real solutions for solving real problems in real time.
- " The unique architecture of the system provides up to 75-90% storage savings vs. other conventional DW vendors who would require anywhere from 300-500 TB to process the same amount of input data.
- " The data warehouse can be loaded in real time so businesses don't have to take DW off line from users to load new data. This means continuous access to data without having to maintain two copies of DW (requiring twice as much resources). Competitors have a great deal of difficulty doing this.
- " Due to Sun's scalable system architecture and the Sybase software design, as more resources (server nodes, CPUs) are added, performance continues to scale to process more workload (users, queries). These resources can be added without disrupting the application. This is very difficult for competitors.
- " The Sun StorEdge 9960 system is a high performance, extremely scalable, continuously available storage system that is tailored to the demands of the high-end data center. It is the most available storage system on the market providing instant access of up to 92.7 TBs of continuously protected data. The Sun StorEdge 9960 system provides open systems and mainframe connectivity and is an excellent platform for storage consolidation, direct-attach storage, and storage area network (SAN) applications.
- " The Enterprise Data Warehouse Reference Architecture is simple and easy to deploy and maintain because Sun and Sybase have already proven it works and developed detailed implementation and sizing guides for customers. This lowers complexity and reduces risk. It also lowers overall TCO due to decreased server and storage requirements.
- " All of this translates into significant TCO savings and reduction in time-to-market (or production) for customers.



Complete Life Cycle Management

The Reference Architecture Life Cycle Management Program addresses the entire customer experience from proof-of-concepts to systems/software implementation to managed services that address the individual customer environment. It incorporates all the necessary steps and elements for long-term customer success and lower overall TCO.

Contact your local Sun or Sybase sales rep for further info.
URLs: <http://www.sybase.com/sunarchitecture>,
<http://www.sun.com/architectures-platforms/refarch/edw/>



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