

TOP TO BOTTOM

we know

they know

END TO END

## Miele increases price-performance with SAP solutions on consolidated IBM infrastructure

### Overview

#### ■ The Challenge

*In preparation for growth and planned application consolidation, domestic goods maker Miele needed to reduce the complexity of its data centre and reduce the number of physical servers it supported. The aim was to reduce TCO, improve operational efficiency, and create a new consolidated platform for its SAP software.*

#### ■ The Solution

*Working with IBM Global Technology Services, Miele consolidated more than 40 servers to three IBM System p5 570 servers with IBM POWER5 processors running IBM AIX 5L 5.3. The IBM servers each have eight active processors, and a further eight that can be activated to meet peaks in workload, then deactivated again.*

#### ■ The Benefits

*The POWER5 technology delivers excellent price-performance and unprecedented flexibility for Miele's SAP systems. By reducing the number of servers in its data centre, Miele has cut support, maintenance and software licensing costs, and can now scale its SAP architecture more easily and cost-effectively.*

#### ■ Key Solution Components

*Industry: Consumer Products  
Applications: mySAP™ ERP including financials/controlling, materials management, and production planning  
Hardware: IBM System p5™ 570, IBM TotalStorage® Enterprise Storage Server®, IBM tape libraries  
Software: AIX 5L® 5.3, Oracle 9i, IBM Tivoli® Storage Manager  
Services: IBM Global Technology Services*

Miele is one of the world's leading manufacturers of high-quality domestic appliances and commercial equipment. The company currently employs almost 15,000 people and recorded annual turnover in 2005/2006 of about €2.5 billion.

Aiming to simplify its infrastructure, reduce TCO and increase flexibility, Miele decided to undertake a major server consolidation project across its SAP software environment. The company had a growing number of separate servers in its data centre, and the costs of support, maintenance and software licensing were relatively high.

Paul-Ludwig Welpinghus, head of IT Operations at Miele, comments: "We selected the IBM proposal – based on the advanced POWER5 architecture – for its technological superiority, excellent price-performance ratio and innovative virtualization capabilities. In addition, we were confident in IBM Global Technology Services' competence to handle the entire migration to the new infrastructure."

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Head of the Data Centre  
Miele

#### **Fewer servers, more power**

Working with IBM Global Technology Services, Miele opted to consolidate 12 independent SAP instances to three IBM System p5 570 servers, each with 16 POWER5 microprocessors running IBM AIX 5L 5.3.

With the On/Off Capacity on Demand feature, eight of the processors on each server are active as standard, and Miele can activate the remaining ones on demand to meet peaks in workload. When the peak has passed, any unneeded processors can be deactivated – and Miele pays for the extra power only while it is in use.

“We are looking forward to much greater flexibility with the System p5 servers,” says Welpinghus. “The

POWER5 architecture is clearly very powerful, backed up by a great deal of research and development. The ability with AIX 5.3 and POWER5 to share processor resources dynamically between different independent systems is a major advantage in our consolidated SAP software environment. Performance has also improved dramatically – we have measured a 50 per cent improvement in response times for the SAP software now it is running on POWER5 processors.”

Miele uses Oracle 9i databases on the p5-570 servers for its SAP software environment. The p5-570s also run IBM Tivoli Storage Manager for automated backup and recovery services. Miele continues to use an IBM TotalStorage Enterprise Storage Server 800 as its main disk storage system, backed up by IBM tape libraries.

#### **Fast, low-risk migration**

IBM Global Technology Services handled the migration to the new infrastructure, making extensive use of standardised methodologies and tools. These helped to reduce the migration workload for Miele, minimise risk and accelerate the go-live.

Says Welpinghus, “Our experience of the IBM Global Technology Services migration service has been excellent. All project stages were completed to our full satisfaction within the agreed timeframes.”



The challenge for the SAP migration experts from IBM Global Technology Services consisted of migrating the heterogeneous SAP environment of the customer – containing 11 system landscapes of different SAP software releases (3.1, 4.6 and 6.20) and various hardware and database platforms – to the new IBM System p5 570 platform within 6 months, while providing a seamless transition.

To fulfil this goal, Micro-Partitioning was used on the p5-570, configured so that automatic load-balancing could take place between the LPARs. The SAP system with the largest data volume had a database size of approximately 900GB and was successfully migrated to the new systems in one weekend.

The success of the project was due to the combination of effective project management, extraordinary competence and the outstanding support of the consulting teams from IBM Global Technology Services. The superb cooperation in the combined customer and IBM team allowed the project to be realized very quickly – within all time and cost frames.

#### **Benefits of consolidation**

With the new consolidated infrastructure in place, Miele has been able to eliminate a large number of servers from its data centre, leading to a reduction in long-term support and maintenance costs. The new infrastructure is also simpler and more

compact, making it easier to maintain and upgrade, and less expensive to host.

“The business benefits of our consolidation to the p5-570 servers are very clear,” says Welpinghus. “The p5-570 servers offer lower TCO than our previous server farm, data security is better, and we have much more flexibility.

“As we extend our SAP supply chain management capabilities and as the business continues to grow, we expect to expand our computing capacity in the future.

“With all business-critical systems consolidated to the p5-570 servers, we have a single standard for the future, and a single type of system to upgrade, making it faster, simpler and more cost-effective to handle growth.”

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Paul-Ludwig Welpinghus  
Head of the Data Centre  
Miele



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