

# success<sup>2</sup>

Storage Solutions

The new Siemens Data Center in Warsaw not only houses one of Poland's largest SAP R/3 installations, to take care of several of the company's subsidiaries - it also provides the resources needed for the IT outsourcing activities of Siemens Business Services in Poland. The high demands placed on performance and fault tolerance for this system are met by PRIMERGY servers from Fujitsu Siemens Computers with a SAN-based security management system implemented with its partners EMC and Veritas.

**SIEMENS**

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## THE USER

Siemens Sp.z.o.o.  
based in the  
Polish capital of  
Warsaw

## THE TASK

To ensure reliable backup as a means of protecting against system failures, and to provide additional resources for running SAP solutions.

## THE SOLUTION

Implementation of a SAN-based backup structure and deployment of eleven PRIMERGY servers from Fujitsu Siemens Computers.

„Many IT managers focus on the cost of implementing IT projects and tend to regard the hidden costs stemming from downtime as being of secondary importance. By contrast, Siemens gave top priority to fail-safe performance when it set up its new data center in Warsaw.”

Marcin Zielinski, Data Center-Projektmanager Fujitsu Siemens Computers Polen

# Siemens Data Center in Poland: The focus is on fault tolerance

**When the people in charge of IT at Siemens Sp.z.o.o. in Poland were asked by their internal IT service provider, Siemens Business Services (SBS), about their requirements for the new information management system, the emphasis was on a solution that could restore data within two hours. Fujitsu Siemens Computers worked together with Siemens IT Services and Siemens Business Services to ensure that this demand was met - quickly and reliably.**

Because downtime is expensive, availability plays an ever greater role in today's investment decisions. That is something that Marcin Zielinski, who is frequently confronted with this issue in his capacity as project manager at the Data Center of Fujitsu Siemens Computers in Warsaw, knows all too well. Nevertheless, it is his experience that many IT managers are still guided primarily by the "visible" costs of implementing their projects. The hidden costs of downtimes tend to be regarded as a secondary issue. "By contrast, Siemens has given fail-safe performance top priority in its investment decisions," says Marcin Zielinski in praise of the farsightedness of the people in charge at Siemens.

## **Merger sparked the realignment**

The reorganization of IT at Siemens in Poland was triggered by the merger with ZWUT Sp.z.o.o. Grupa Siemens in October 2001. This provider of telecommunications and information technology was created in 1993 as part of the privatization of the Polish telecommunications market and has since been a part of Siemens operations in the country. The merger increased the number of Siemens companies in Poland to 12. They operate in the fields of telecommunications, IT, energy, traffic systems, control systems, medical engineering, financial services, lighting engineering and domestic appliances. Many of them use the ERP (Enterprise Resource Planning) software from SAP that ran on several PRIMERGY servers at a central site in Warsaw.

Even before the merger with ZWUT, Siemens was well aware of the increasing demands being placed on the ERP infrastructure. Consequently, the merger offered a good opportunity not only to integrate ZWUT's IT environment, but also to adapt information technology capabilities to the growing needs of all Siemens companies in Poland. As part of this process, the existing SAP installations are being upgraded to R/3 version 4.51. At the same time, additional resources are being created for the use of Siemens Business Services



as it expands its outsourcing services in Poland. "The old version of the program wouldn't have been able to cope with these additional demands," says Waldemar Chlebik from Siemens Business Services.

## **New Data Center in Warsaw**

Home to the expanded IT structures for Siemens in Poland is a new Data Center in Warsaw. Siemens decided to install hardware offered by Fujitsu Siemens Computers because PRIMERGY servers proved their superiority over the competition, both technically and financially. The entire project was implemented with the joint cooperation of SBS, Siemens IT Services and Fujitsu Siemens Computers. The Polish subsidiary of EMC was brought on board to act as the strategic partner for storage management.



#### **Trimmed to high availability**

The Siemens Data Center is spread over two locations situated 300 meters apart and linked by high-speed fiber optic cable via Gigabit Ethernet and Fibre Channel switches. This arrangement ensures the mirroring of the servers. If one site fails, the other one takes over its operations.

Several servers work together in a Microsoft Cluster environment at the Data Center. Two separate EMC Symmetrix intelligent disk arrays are available for data synchronization in the event of failures. "If one should fail, the other keeps things running," says Waldemar Chlebek from SBS. "There is a high degree of redundancy." A Scalar 100 LTO library is connected to a SAN (storage area network) that is monitored by a backup program from Veritas. The entire Data Center is designed to offer high availability for business-critical applications and for the development and test systems.

The people in charge at Siemens are very satisfied with the new Data Center because it fully meets their demands for greater performance and two-hour data recovery. The hardware from Fujitsu Siemens Computers and EMC's storage technology also reduce the total cost of ownership.

And the project is not yet over. The Data Center has enough capacity to supply other companies with outsourced ERP services. The state-of-the-art technology should help in acquiring more customers. Waldemar Chlebek is optimistic: "After all, the Data Center runs one of the largest and most up-to-date SAP installations in the Polish IT market."

## Facts and Figures

### Data Center Equipment

#### Hardware:

- > Two 8-way-PRIMERGY N800 systems
- > Two PRIMERGY N800 systems with four processors
- > Seven PRIMERGY application servers

#### Software:

- > SAP R/3 4.51

#### Database:

- > Oracle

#### Operating system:

- > Windows 2000

#### Security management:

- > SAN: four Fibre Channel switches
- > EMC Symmetrix 8430
- > Scalar 100 LTO library
- > Veritas NetBackup DataCenter



## Contact

Fujitsu Siemens Computers Sp.z.o.o.  
Headquater  
Ul.Flisa 4  
02-247 Warszawa  
Poland

Phone: +48 22 577 47 00  
Fax: +48 22 577 47 09

Fujitsu Siemens Computers Sp.z.o.o.  
Andrzej Karchniwy  
Ul.Modelarska 12  
40-142 Katowice  
Poland

Phone: +48 32 608 26 99  
Fax: +48 32 251 68 02  
Mobile: +48 602 415 874

[Andrzej.Karchniwy@fujitsu-siemens.com](mailto:Andrzej.Karchniwy@fujitsu-siemens.com)