



Virtualization of the organization's critical applications

Management Summary

This case shows you, how AddOn supports a client which was planning a change to a virtualized SAP system landscape infrastructure. The results of this project proves, virtualization technology makes IT infrastructure more scalable, safer, easier to administer, and helps to reduce costs.

Assignment

AstraZeneca wanted to exchange its ageing SAP hardware with a server landscape. AddOn was given the assignment to analyze and evaluate the possibilities and potential that the virtualization of its IT-infrastructure could offer.

Project goals

The ultimate goal was to dramatically improve the IT performance. Additionally, the new infrastructure was to ensure a high operational availability of the SAP systems. Furthermore, the new IT landscape had to guarantee the compliance requirements placed on the IT of a pharmaceutical organization.

Solutions

During the SAP "Consulting in a Box" SAP Virtualization Check package, the AddOn Consultants analyzed the current IT-infrastructure, evaluated the consolidation potential and calculated the financial consequences of a virtualization. Based on the results of the analysis, AddOn designed and implemented the virtual SAP infrastructure. The new SAP system landscape makes efficient administration of the consolidated SAP development systems, test systems and productive systems possible. Additionally, it ensures a high operational availability of SAP applications.

Customer

AstraZeneca

Sector

pharmaceutical industry

Employees in Germany

2.300

Turnover in Germany

1,2 Mrd. \$ (D)

Short profile

AstraZeneca was formed in 1999 by the merger of the Swedish Astra AB and British Zeneca Group PLC. In 2006 AstraZeneca had a turnover of 1.165 million US dollars with 2.300 employees at its locations in Wedel (Schleswig-Holstein) and Plankstadt (Baden-Wuerttemberg), it is one of the leading pharmaceutical manufacturers in Germany.

Success-Story: Virtualization of the organization's critical applications

"The AddOn consultants have given us tremendous advice on implementing the virtual infrastructure."

AddOn services

- Analysis, sizing and design phase
 - » Determination of virtualization possibilities and evaluation of options during the "Consulting in a Box – AddOn SAP Virtualization Check"
 - » Analysis and design of the virtualization at AstraZeneca's Plankstadt and the Wedel locations (approx. 214 servers)
 - » Hardware sizing, according to the requirements of the virtualized SAP landscape
- Virtualization of the IT centre in Plankstadt
 - » Establishment of a VMware Infrastructure 3 with a high operational availability
 - » Consolidation of the IT-centres RZ1 and RZ2 in Plankstadt
 - » Virtualization of approximately 70 servers
- Migration of the SAP landscape
 - » Setup of an environment for testing and development
 - » Heterogeneous migration of two HP Alpha Tru64 Unix Server to two VMware ESX hosts with 6 VMs on a 64Bit Windows Server 2003
 - » Migration and reorganization of the Oracle database
- Training for specific administration of SAP systems in VMware infrastructure 3

Utilized hardware/software

- VMware infrastructure 3 on a four way dual-core HP Proliant DL580G4 server with Intel Xeon Processors, 64 GB RAM and further HP Proliant DL380G4, 12 GB
- EMC CLARiiON CX500 SAN
- Operating systems: Windows NT4, Windows 2000, Windows 2003, Linux systems
- Applications: SAP ERP, APO, CRM, SCM and SRM

Success

- All potentials developments that had been evaluated were fulfilled
- Servers were consolidated to a 10:1 ratio
- Time needed for a server installation was reduced from 8 hours to 30 minutes by use of templates

- Performance and availability were fulfilled better than expected
- All sub-projects were successfully completed, on-time
- VMware operating and system management training was successfully completed
- Migration of the SAP systems was accomplished without complications
- The productive operation of the systems infrastructure was finished on-time
- Reduction of time used and simplification of the prescribed certification process of servers within the pharmaceutical organization
- Expected cost reduction over a three year period will be approximately 1 million Euros

Customer assessment

Askin Karatepe, server and database administrator, AstraZeneca



"The AddOn consultants have given us tremendous advice on implementing the virtual infrastructure. The consultants have made it possible that we can take advantage of and use the potential of the VMware infrastructure. The concept they developed allows us a 24/7 operational availability of our SAP-systems. The virtual machine templates simplify documentation and reduces server setup time.

The allocation of the physical resources to the virtual machines is a substantial achievement."

"We are convinced that our productive system runs just as well on a virtual machine as it would in a physical environment – perhaps even better."

"I recommend the AddOn SAP Virtualization Check to all organizations with a large number of servers. It gave us the necessary security for our plans. It also provided us with a feasibility study.

Co-operation with the AddOn consultants was very good. Especially the efficient, transparent and very pragmatic way in which project work was done. Another plus was the direct and open communication. I was always up-to-date with the project status.

I highly recommend AddOn as a partner for any organization planning a virtualization project."