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END TO END

KGHM Polska Miedź S.A. Unearthing business benefits with SAP

KGHM brings greater scalability, flexibility and security to its SAP R/3 environment, with an IBM @server and database solution.

KGHM Polska Miedź S.A. is a major producer of copper and silver, and holds significant stakes in the Polish telecommunications sector. The company produces 6 % of the world's silver and 4 % of the world's copper, together with significant quantities of gold, lead and other metals and minerals. In 1991, KGHM became a State-owned, joint stock company, and in 1997 was floated on both the Warsaw and London stock exchanges.

The company wanted to guarantee higher availability, flexibility and security for its SAP R/3 environment, and also to cover growth of its SAP user base and requirements.

By selecting two IBM @server zSeries configured in a parallel sysplex as database servers and five IBM @server pSeries as application servers, KGHM has implemented an infrastructure that delivers the required level of SAP performance and reliability. Says COPI KGHM, KGHM Director "The new IBM @server environment enables us to get the best

out of our SAP system. We have massively increased productivity and throughput, and we also benefit from cast-iron availability."

Complex migration

KGHM's SAP R/3 system was successfully migrated to the new IBM infrastructure in just five months. The combined project team was managed by IBM Poland, and included IBM New Technology Center in Montpellier, IBM Global Services (Germany), PROKOM Software S.A., and KGHM specialists.

The new system uses IBM DB2 on zSeries as the database environment, and SAP R/3 4.6C running in an AIX® environment on pSeries application servers for production. The pSeries are linked using HACMP (High Availability Cluster Multi Processing) for optimal failsafe capability. IBM Enterprise Storage Servers (ESS) complete the architecture, providing fast and reliable backup.

A key stage in the migration was the crossload of KGHM's 130 GB database from the Oracle® environment on a system of another major UNIX vendor to the DB2 environment on OS/390®. "This was a complex migration," says COPI, "but flexible co-operation between

Overview

■ The Challenge

KGHM needed greater scalability, flexibility and security to its SAP R/3 environment, platform and database migration

■ The Solution

Industry: Industrial

Application: SAP R/3

Software: DB2®

Hardware: IBM @server® zSeries™;

IBM @server pSeries™;

IBM Enterprise Storage Server™

Services: Migration and

Implementation done by BCS

■ The Benefits

increased productivity; faster throughput; high availability; better performance; simplified backup

IBM

SAP

IBM, its business partners and KGHM ensured that everything went smoothly. The technical competence of all parties involved was high, and we were able to go live a month earlier than we had planned."

Ground-breaking project

The KGHM project is one of the first SAP R/3 installations on the zSeries enterprise server platform in Poland. The installation provides sufficient scalability, giving KGHM the possibility of further progression. At the same time, it delivers high levels of security and uptime, with maximum efficiency in information processing. The production SAP system has 2,300 users, and KGHM is aiming to have 3,000 in the future.

KGHM currently uses the following SAP solutions: Accounting, Asset Accounting, Treasury, Consolidation, Special Purpose Ledger, Controlling, Material Management, Sales & Distribution, Project Systems/Investment Management, Plant Maintenance, Document Management System, Human Resources, and Payroll. "We rely on SAP as an application on which we run our business," says COPI, "and we see it as an evolving tool that will keep delivering new benefits. Our HR solution manages about 55,000 employees records, and we needed a server environment capable of supporting a large number of users without any loss of performance. IBM has provided that." Work is now underway at KGHM on the implementation of the Production Planning solution, which will initially be used for production reporting.

Reliable and efficient

The new IBM/SAP environment has provided an important step forward for KGHM in terms of operational efficiency and reliability. Says COPI, "The IBM @server environment gives a higher

level of reliability than our previous infrastructure. In addition, the ESS servers have simplified and accelerated backup procedures."

Two ESS servers are attached to the zSeries database servers; the first has a capacity of 1.6TB, and the second can hold 1.2TB, although the production system database is currently at 200 GB. The two zSeries database servers using Parallel Sysplex technology and DB2 Data Sharing, which ensures sufficient reliability and failsafe operation. The database environment on the second server can automatically take over production processing from the primary server in the unlikely event of any failure. This functionality will also enable KGHM to assure production continuity during maintenance and upgrade of zSeries, its OS/390 operating system and the DB2 database.

KGHM has additional SAP R/3 systems (development, quality assurance, and a test environment) which also use the ESS for backup. The flashcopy mechanism of ESS is used in all cases to make a physical backup copy of the production system. COPI comments, "With high-speed backup on ESS, we have seen a significant reduction in the time that systems are inaccessible during copy operations. Furthermore, our general efficiency has increased because most zSeries and DB2 administration tasks can be carried out with the production system running. A good example is DB2 Online Reorg, which enables us to reorganise databases without bringing production systems to a halt."

Further Information

To learn more about how the IBM and SAP alliance can help your business, please visit: **ibm-sap.com**



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