



High performance. Delivered.

Freeport-McMoRan Copper & Gold

Realizing Power and Performance Potential to Support a Global ERP Implementation

Client Background

Freeport-McMoRan Copper & Gold (FCX) is the world's largest publicly traded copper company, with assets in copper, gold, cobalt and molybdenum, revenues in excess of US \$19B and more than 30,000 employees. The company operates across six continents, owning significant mining operations in North and South America, the Tenke Fungurume minerals district in the Democratic Republic of Congo, and the world's largest copper and gold mine in the Grasberg minerals district in Papua, Indonesia.

Business Challenge

Following a major US \$28B acquisition, Freeport determined the need to dramatically increase its systems scalability and performance model. The company's existing infrastructure and ERP environment was inhibiting its ability to progress its growth agenda, at a critical juncture when Freeport was revising its operating model to leverage emerging technologies and optimize internal processes.

Freeport launched an extensive expansion initiative, involving a complete ERP transformation and standardization of its storage and computing

platforms across its global operations. The company wanted to leverage a common infrastructure across operating system platforms and create a reference architecture that could support geographically diverse remote operations.

Freeport required its new infrastructure to exhibit simplified manageability and serviceability, increased resiliency, and standardized tools, while moving toward a cloud-enabled systems landscape. Freeport was also looking for the flexibility to outsource data center operations to a third party following the infrastructure transformation.

Accenture's experience in SAP deployments for the natural resources industry became a key factor in Freeport choosing Accenture for this major transformation. An infrastructure refresh, required to support the ERP transformation project, was scheduled to be completed within an aggressive nine-month timeframe. Accenture became the clear choice to provide the SAP knowledge and skills, coupled with the infrastructure expertise to guide Freeport through the project and support Freeport's short- and long-term goals.

• Consulting • Technology • Outsourcing

How Accenture Helped

Support by the Accenture & Cisco Business Group was instrumental in preparing a proof of concept that demonstrated how a Cisco Unified Computing System (UCS) and NetApp Unified Storage Solution could dramatically accelerate delivery of the ERP implementation and create the flexibility Freeport needed. Accenture provided solutions for data center architecture, design and implementation expertise, and appropriate project and risk management to drive a successful migration to the new infrastructure.

Working with its partners, Accenture created a private cloud architecture (a combination of NetApp Unified Storage and Data Management, VMware vSphere and Cisco UCS with SAP software), customizing the installation to meet Freeport's diverse demands for infrastructure scalability, flexibility and manageability. Accenture will operate the data centers using Cisco UCS to run multiple environments, both physical and virtual.

During the ERP transformation, the private cloud architecture increased speed to value by decreasing the testing window, accelerating system refreshes and enabling the rapid stand up of new environments. Freeport avoided additional cost by using a flexible, scalable single platform to support the in-flight ERP initiative, plus the architecture consolidation and the data center move. Accenture helped Freeport mitigate risk by leveraging a private cloud architecture to easily allocate additional space and computing power.

High Performance Delivered

The project succeeded on both fronts: delivery schedule and end results. The infrastructure refresh was completed within the required nine-month timeframe to support the ERP transformation. The private cloud architecture enables rapid provisioning of the system landscape to support on-demand development and test environments.

With this new capability, Freeport increased platform utilization and maximized its infrastructure investment, while simplifying ongoing management and operational support for SAP.

Numerous operational improvements attest to the higher performance and more responsive ERP environment: rapid deployment and scaling of SAP using service profiles, applications running significantly faster, and lead time for SAP restorations being reduced from hours to minutes. Faster test cycles using rapid refresh of test environments allowed for more testing to be completed within existing project schedules. Virtualization of servers and storage resulted in a much smaller hardware footprint and a greatly reduced storage platform.

Simplifying storage management has increased efficiency and the new storage architecture can support a mix of application landscapes. Freeport's users can now create multiple snapshots for data protection without affecting production or formal testing. Additionally, business continuity and disaster recovery are available for individual systems.

By delivering a flexible, highly-efficient and scalable open architecture platform, Accenture gave Freeport the opportunity to revise its operating model, leverage emerging technologies and optimize internal processes. Freeport successfully transitioned to one SAP system with standardized global operations, helping position the company for more efficient operations as it focuses on expanding mining operations worldwide.

Today, the company continues to strive for new levels of innovation and operational excellence, clearly demonstrating how leveraging new technology is a key strategy for achieving high performance. By delivering critical IT services in a way that improves Freeport's effectiveness and cost-efficiency, Accenture provided Freeport greater agility and improved ability to focus on its growth agenda.

About Accenture

Accenture is a global management consulting, technology services and outsourcing company, with more than 215,000 people serving clients in more than 120 countries. Combining unparalleled experience, comprehensive capabilities across all industries and business functions, and extensive research on the world's most successful companies, Accenture collaborates

with clients to help them become high-performance businesses and governments. The company generated net revenues of US\$21.6 billion for the fiscal year ended Aug. 31, 2010. Its home page is www.accenture.com.

About Cisco

Cisco is the worldwide leader in networking that transforms how people connect, communicate, and collaborate. Since 1984, the company has led in the innovation of IP based networking technologies such as routing, switching, security, Cisco TelePresence™ systems, unified communications, video, and wireless. Cisco and its valued partners sell hardware, software, and services to businesses of all sizes, governments, service providers, and consumers. The company is committed to responsible and sustainable business practices. Learn more at www.cisco.com.

About Accenture & Cisco Business Group

The Accenture & Cisco Business Group helps organizations use IT as a strategic asset to reduce costs, drive revenue and deliver superior customer service. With an integrated approach, we blend Cisco's advanced and emerging technologies with Accenture's industry-specific understanding of how technology affects people, applications and business processes. We assist clients in charting practical roadmaps to design, build and run network-enabled solutions that are effectively integrated into key business processes. Our distinctive portfolio of solutions helps clients bring immediate payback and improved, sustainable agility and includes Data Center Solutions, Network Transformation Solutions, and vertical areas of focus on Collaboration Solutions and Smart Solutions. Learn more at www.acbg.com.

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