



INDUSTRY

Technology

LOCATION

San Jose, California

KEY CHALLENGES

- SAP applications ran on a legacy hardware platform, with 74 physical servers – slow, costly and highly manual
- Altera needed a faster disaster recovery function

SOLUTION

- Designed migration path for SAP application to new virtualized infrastructure
- Designed and implemented high availability solution; simultaneously designed disaster recovery solution for future deployment
- Demonstrated expertise, knowledge and flexibility to overcome customer concerns

BUSINESS BENEFITS

- Automated operations, reduced costs, improved productivity and scalability
- Reduced data recovery drastically from 24 hours to just minutes
- Met Altera's business objectives with innovative ideas and exciting results



VMware Professional Services Drives SAP Application Migration At Altera

To better support their growing operations, Altera recently embarked on a journey to virtualize their IT infrastructure, powering the project with VMware technologies. As part of the transformation, Altera needed to migrate their SAP applications to the newly virtualized environment as well as improve the disaster recovery component. The overall goal—to add automation and scalability, improve productivity, reduce operational costs and protect business critical data. Altera engaged VMware Professional Services to lead the high priority, high profile project. The VMware Consultants had the knowledge, experience and flexibility to solve the project's complexities and the expertise to propel Altera to operational readiness.

Altera Corporation is an innovative leader in the custom logic solutions industry, having invented the world's first reprogrammable logic device in 1984. Today, with over 2,600 employees in 19 countries, the Silicon Valley-based company provides customers with a wide range of custom logic solutions and devices, all addressing a broad range of customer concerns from power consumption to performance to cost.

The Challenge

Altera ran their SAP applications on a legacy hardware platform with 74 physical servers, which added cost, time, and manual effort to the operation. The platform also housed 12 databases, each ranging from two to six terabytes. The new virtualized infrastructure needed to match the current platform's size, plus provide room for growth, and replace the physical servers. Additionally, Altera needed a new disaster recovery deployment plan for the SAP application data. The goal was to speed recovery time from 24 hours to just minutes.

The Solution

The VMware Consultants met with the Altera IT team to gather information about the current environment and make

recommendations for the future state. With their extensive experience and flexibility, the Consultants presented innovative ideas and options to meet Altera's business objectives.

To stay on schedule and within budget, the Consultants, in collaboration with Altera, managed multiple projects in parallel to complete the following goals:

- **Migrated SAP modules to the virtualized infrastructure:** For each module, the Consultants built different landscapes, including a development system, QA system and production system
- **Designed and implemented a high availability solution:** Enabled Altera to automatically restart their virtual machines in the event of a hardware failure

“Our SAP application migration succeeded due to the expertise of the VMware Professional Services Technology Consultants. We would not have achieved such high quality results without their agility and knowledge.”

Name, Title, Altera Corporation

- **Designed a disaster recovery solution for future deployment:** Each of Altera's 12 databases warranted different storage components. Teaming with Altera's storage group, the VMware Consultants proposed a design with separate storage paths to help ensure an effective data recovery plan in case of disaster.

The Results

The VMware Consultants successfully spearheaded Altera's critical SAP migration and data recovery projects in just 11 weeks. To accomplish this, they migrated SAP applications to a virtual infrastructure, completed an end-to-end design and deployment for high availability, and prepared a disaster recovery design for Altera to implement in the future. The Consultants added business value with their flexibility, knowledge and expertise, achieving desired results and enabling Altera to reach its business critical goals.

Powered SAP migration: Successfully migrated 12 SAP modules to a new virtualized platform

Drove results: Enabled automation of its migration plan, reduced operational costs, improved productivity and increased scalability through streamlined process and proven VMware methodologies

Delivered physical to virtual victory: Achieved 80% reduction in physical servers from 74 to 14 servers

Prepared Altera for faster data recovery: High availability solution automatically restarts virtualized machines; future deployment of newly designed data recovery solution to speed data recovery from 24 hours to just minutes

Shared expertise: The VMware Consultants transferred extensive knowledge to Altera throughout the engagement that helped Altera advance its ability to manage the operations of its new platform

Looking Ahead

The VMware Consultants readied Altera to self-sufficiently implement the new disaster recovery solution based on the newly created design, which Altera plans to initiate in the future. In the meantime, Altera continues to progress with their SAP application migration and experience business critical results from their virtualized platform.

About VMware Professional Services

VMware Professional Services transform IT possibilities into business outcomes. Our comprehensive portfolio of consulting and education services help you uncover and exploit the unique opportunities made possible by VMware technology and solutions. Drawing on our unparalleled expertise and customer experience, we collaborate with your team to address the technical, people, process and financial considerations for your VMware solution to deliver results that are positive, tangible and material to your business.

www.vmware.com/consulting

