

# *Engineering Process Automation helps Increase Productivity in the Oil and Gas Exploration Industry*

*McLaren's Enterprise Engineer combined with IBM's FileNet P8 platform, empowers Apache to ensure integrity of engineering project documentation*



*"We will leverage the Enterprise Engineer application suite to automate existing manual processes, helping us create economies of scale in the management of existing and future capital assets."*

Mike Bahorich, Executive Vice President, Apache Corporation

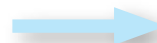
Apache Corporation, founded in 1954, is today one of the world's largest and most successful independent oil and gas exploration and development companies with over \$29 billion in assets. It operates within the central region and the Gulf Coast of the US, and has significant operations in Canada, the United Kingdom North Sea, Egypt, Australia and Argentina.

From the start, Apache has been determined to run a profitable organization for its shareholders, employees and partners, balanced with the commitment to improving the quality of human life in the communities in which it operates. Its outreach programs, environmental initiatives and safety record are key business objectives, along with a company-wide desire to grow and succeed with a sense of urgency.

## **Increased complexity demands urgent solution**

As the complexities of oil and gas exploration continue to increase exponentially, Apache is keenly aware that engineering documentation management has become a critical element in the ability to increase efficiency, compliance and productivity. Ensuring adherence to consistent process and controlling access to engineering documentation including drawings, correspondence, procedures, compliance and specifications contributes to project execution and speed of completion. This ability to drive consistency across multiple projects is a major asset to a company like Apache that is striving continually to gain a competitive advantage.

By turning to IBM Business Partner McLaren Software, Apache chose a leading provider of engineering-documentation management applications within the oil and gas industry. McLaren's Enterprise Engineer is a suite of configurable business applications that automates the engineering process and ensures the integrity, production and use of project and asset documentation. Supported by IBM® FileNet® P8, a robust Enterprise Content Management platform capable of handling the most demanding compliance, content and process management needs for the entire organization, Apache is now ideally equipped to leverage this technology for existing and future projects.



# Enterprise Engineer ensures project documentation integrity

## **Business Challenge**

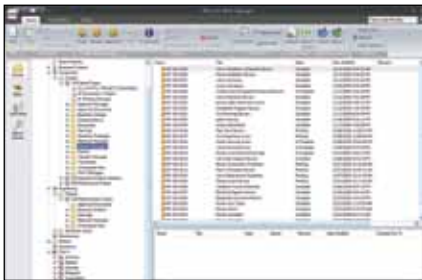
Manual search, retrieval and modification of over 50,000 engineering documents from both internal and external sources was resulting in delays, reworking and production downtime for Apache.

Industry regulatory bodies mandate tight controls and proof of process for any changes on production platforms. Compliance with these regulatory requirements is not an option for offshore operators.

Apache understands the value of leveraging technology to help maintain and improve an efficient operation by finding a solution that provides dependable information to regulators, staff and suppliers and minimizes operating costs.

## **The Solution**

- McLaren Enterprise Engineer is an IBM-accredited suite of engineering document management and business process applications including recognized industry best practice, processes and security.



- IBM® FileNet® Content Manager, IBM® FileNet® Business Process Manager and IBM® FileNet® Email Manager, core components within the IBM® FileNet® P8 platform combine with the enterprise content management reference architecture, offering comprehensive business process management and compliance capabilities. The platform supports flexible API for Java™, Microsoft® .NET® and XML Web services application development to support leading content applications such as Enterprise Engineer.

## **Business Transformation**

Unstructured search and retrieval of vast amounts of documentation from numerous sources was proving time-consuming and error-prone.

The previous method of updating engineering documentation meant that only one project could be executed at a time because changes had to be recorded and then communicated to all other parties, both internal and external.

Enterprise Engineer includes industry best-practice engineering business processes, document verification and security needed to control the creation and ongoing change management of documentation, ensuring consistency across multiple projects.

The implementation of Enterprise Engineer ensures business rules are followed through the use of familiar applications and user interfaces.



## **Implementation**

Loading the legacy data was the greatest hurdle, but undertaken very successfully by ECMG, a partner of McLaren Software and expert in the field of content migration and exchange.

*“The selection of Enterprise Engineer and IBM FileNet P8 by Apache is a further validation of McLaren’s position as a leader in engineering centric ECM business applications.”*

**Tim Taylor, Chief Business Development officer, McLaren Software**

**McLaren Software** are headquartered in the UK and US with offices in Germany and a growing network of partners in all five continents. Please visit [www.mclarensoftware.com](http://www.mclarensoftware.com) or email [marketing@mclarensoftware.com](mailto:marketing@mclarensoftware.com) for more information

## **Business Benefits**

The McLaren-IBM combination - the best in engineering documentation and business process applications with a scalable and robust ECM platform - provides an enterprise-scale engineering documentation solution. This gives Apache a fully automated engineering documentation creation, editing, control and monitoring process, ensuring total consistency of information across departments and locations, resulting in:

- On-demand and secure access to validated documentation
- Consistent engineering business processes across multiple projects via a software solution
- Improved compliance and audit capabilities using the project documentation and business methodology features
- Minimization of errors and reworking that result in costly project delays
- Improved control of information to vendors and suppliers using the transmittal portal architecture

## **A Confident Future**

By benefiting from the efficiency and speed of automating its engineering documentation, Apache is able to complete projects faster and more accurately.

All engineers and staff involved in Apache’s projects now have an increased confidence in the integrity of the documentation they use - an important factor in the success of any engineering project.