

EMC Documentum Solution for Accelerated Oil Field Reactivation

Make better collaborative decisions—minimizing risk, time, and cost while automatically capturing content and records

The Big Picture

- Quickly assess reactivation feasibility, timeframe, cost, and risk—and speed up regulatory approval
- Proactively manage knowledge-based processes through enterprise-wide automated workflows
- Search for all relevant physical and electronic content with single-query, federated searches
- Accelerate expert, iterative decision-making using knowledge-based portals
- Automatically capture content and records based on workflow triggers
- Manage all information with a single set of retention policies, classification metadata, and disposition policies
- Simplify enterprise-wide IT infrastructure and unify team content silos

The increasingly urgent drive to reactivate dormant oil fields reflects the confluence of several trends and technologies—oil is selling at record high prices, there are few new areas to drill, more countries are inviting Western companies to explore existing oil fields, and better and more cost-effective extraction techniques are available. Executives and line-of-business professionals recognize the value in bringing additional production capacity online as quickly as possible. Yet numerous impediments hinder an organization's ability to accurately assess the undertaking's feasibility, rapidly win regulatory approval, and smoothly run the project over its entire lifecycle. One thing is certain: reactivation success depends on finding, capturing, and then managing an enormous amount of relevant content through internal and external work processes.

Meeting the knowledge management challenges

Oil and gas organizations face several ongoing (and growing) knowledge management challenges.

- The industry's knowledge workers—dispersed across divisions, geographies, and time zones—resist taking the time to document their actions.
- The content that exists is often inaccessible or stored without any underlying organization, making it difficult and costly to find, retrieve, and use.
- Much of the content is often inconsistent, increasing the risk of using it.
- Ad hoc or “one off” processes proliferate across the globe, creating inefficiencies and generating additional costs while providing no management visibility.
- The so-called “great crew change” is draining away institutional knowledge while driving up cost and risk. Much legacy information is paper-based, stored in boxes in dispersed locations.
- An inability to capture content and records greatly increases the risk of regulatory non-compliance.

To help you overcome these challenges, EMC and OmniRIM offer an integrated set of capabilities—including federated enterprise searches, workflow automation, collaboration, and physical and electronic records management—that help accelerate oil field reactivation projects. Your organization gains ready access to the institutional knowledge and related content required for rapid, informed, and uniform decision making.

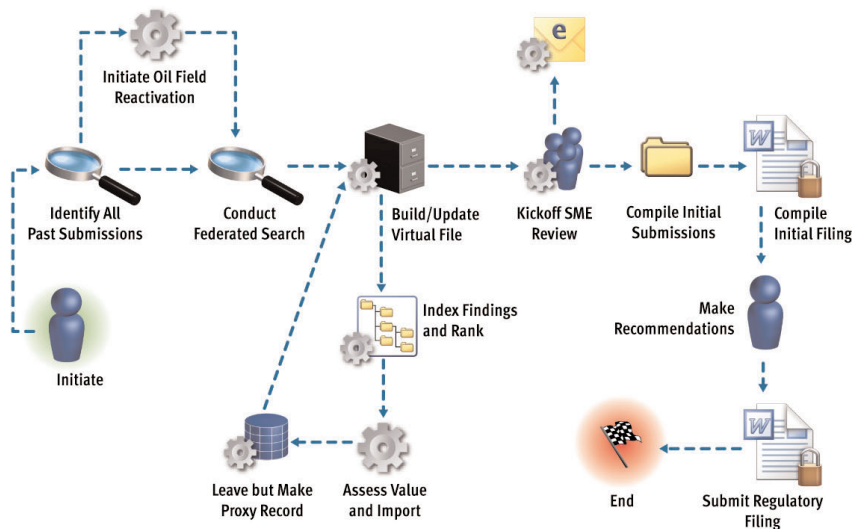
Working closely with Gimmel Group, an oil and gas industry leader in content and records management solutions, your organization will configure a knowledge-based portal for accelerating oil field reactivation. With the EMC® Documentum® solution in place, your organization can:

- Conduct federated, enterprise searches to find all relevant content—physical and electronic, local and dispersed—including past regulatory submissions, prior production reports and seismic studies, on-site processing equipment, safety records, human resources files, and more.
- Provide all of that content in a knowledge-based portal that facilitates expert, iterative decision making.
- Deliver a set of workflows that accelerate processes by involving experts just in time, with the right, secure information.
- Automatically capture all relevant processes, content, and records in the background based on predefined workflow triggers.
- Consistently apply a single set of retention policies, classification metadata, and disposition policies to all records.
- Create a reusable reactivation process that can give you access to best practices and other guidance.

The result? You will:

- Make better, faster decisions at lower cost by finding content and bringing it into the EMC Documentum repository as a system of record.
- Engage the best decision makers and supply them with the most relevant content.
- Save money by reusing content rather than recreating it.
- Speed processes by providing knowledge workers with virtual files and workflows.
- Gain greater visibility across all projects.
- Accelerate regulatory approval and future discovery efforts.

EMC Documentum Workflow



The EMC solution expedites the oil field reactivation process.

Automated workflows: the key to rapid reactivation

An EMC content management solution boosts the bottom line by streamlining and automating collaborative processes while capturing content and managing records automatically. How does this work? Workflows are defined for your organization's core set of business processes, created content, integration points, and more. Based on the records requirements, triggers can be set to automatically capture information "in the background" at key steps in the process. As shown below, records are automatically captured at the "Compile Initial Filing" and "Submit Regulatory Filing" steps. Additional business rules can capture additional metadata in related systems for truly comprehensive records.

More specifically, you can create a virtual document that sends specific content in parallel to different functions, such as oil extraction engineers, geologists, and safety engineers. Each group can independently assess the information and make recommendations, and the system will bring the components back together to form a single workspace in which the team can review all content. Then the Regulatory Affairs group can generate multiple types of renditions depending on the audience—such as PDF files for printing, CDs for regulators, or XML format for electronic transmission—and compile and deliver electronic submissions to the appropriate regulatory portals.

eDiscovery is an oil and gas industry imperative

Oil and gas companies must respond to several new and evolving business requirements that, taken together, make the ability to discover, capture, and collaborate on content absolutely critical. These drivers include:

- New rules of civil procedure—legal imperatives mandating organizations must present information electronically
- OSHA, EPA, and other compliance requirements
- The "great crew change," which means upstream and downstream knowledge is literally walking out the door
- Growing silos of physical content
- Rising operational and safety risks
- Rising litigation search costs and time
- Inefficient, costly, and slow production at existing plants

Extend knowledge-based management across the enterprise

The oil and gas industry deals in other knowledge-based processes, beyond those involved in reactivating oil fields, that will improve with the use of portals integrated with advanced content management functionality. Such knowledge-based portals can be rapidly configured based on business objectives, workflows, participants, content, and records requirements. Underlying each portal is a common EMC Documentum platform, shown here. It provides all of the process, advanced content, and repository services required to support knowledge-based processes including:

- Process safety management
 - Supplier management
 - Engineering standards and procedures
 - Well site and facility management
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Components of a knowledge-based management infrastructure

EMC Documentum products (select from list below based on need):

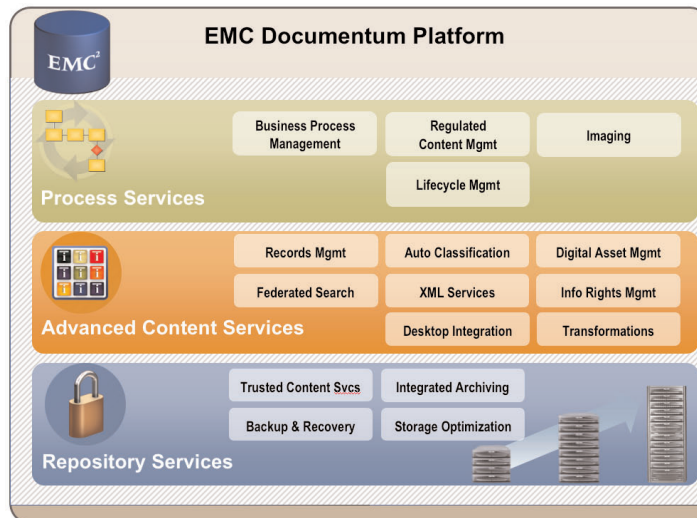
- Enterprise Content Integration Services
- Content Server
- Process Suite
- Retention Policy Services
- eRoom Enterprise or Documentum Webtop
- Content Services for SharePoint
- Archive Services for SharePoint

Gimmal Group services:

- Professional services for planning and implementing enterprise content management solutions
- Technology expertise in integrating Microsoft solutions and enterprise infrastructures
- Energy industry expertise in work processes and document, records, email, and data management

OmniRIM products:

- Enterprise Edition
- Records Center
- eConnector for EMC Documentum
- eConnector for Microsoft SharePoint



An architectural diagram of the EMC Documentum platform.

Get the benefits of an EMC and OmniRIM knowledge-based solution

EMC solutions quickly deliver business and IT value by providing knowledge-based portals and simplifying and consolidating your organization's underlying IT infrastructure. These solutions help you:

- Capture processes and physical and electronic content and records from your knowledge workers, wherever they are, without affecting their workflow in any way.
- Take advantage of information that is easily accessible and thoroughly consistent.
- Standardize workflow and processes globally for greater efficiencies, lower cost, and excellent management visibility.
- Capture, store, and share institutional knowledge before "the great crew change" occurs.
- Ensure your organization complies with all regulatory mandates.

About EMC

EMC Corporation (NYSE: EMC) is the world's leading developer and provider of information infrastructure technology and solutions that enable organizations of all sizes to transform the way they compete and create value from their information. Information about EMC's products and services can be found at www.EMC.com.

About Gimmal Group

Gimmal Group plans and develops solutions that integrate enterprise content and records management systems with business processes and applications. These intra- and inter-company solutions improve business performance for Global 2000 companies in industries including energy, financial services, government, health care, and manufacturing.

About OmniRIM

OmniRIM Solutions Inc. provides advanced physical records management and retention policy management software. The company's products enable organizations to automate and streamline lifecycle management of vital business records while supporting legal compliance, corporate governance, access to information, and operational efficiencies.

Take the Next Step

To learn more about the EMC accelerated oil field reactivation solution, visit www.EMC.com or call 1.800.607.9546 (outside the U.S.: +1.925.600.5802).



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Data Sheet
H3450