

Improving the reliability and productivity of critical assets in the oil and gas industry.



Highlights

- Manage the life cycle of assets across your enterprise
- Help minimize administration costs by streamlining and automating key asset management processes
- Facilitate the adoption of a service-centric approach that helps optimize uptime, cost management and planning
- Leverage an industry-specific asset management solution that supports key business practices
- Integrate more easily with existing business systems

As oil and gas companies prepare for a surge in worldwide consumption, they focus on ways to increase supply. They continue to seek more cost-effective ways to deal with exploration and production while they maintain high health, safety and environmental standards. At the same time, the oil and gas industry faces uncertain market conditions: price instability in major producing countries, an aging workforce and uncertain government support.

To realize operational excellence plans and deliver on the promise of increased production, availability and reliability, oil and gas organizations must install industry-specific solutions. These solutions must support standards of excellence that help the organizations promote compliance, safety and reliability goals; improve the planning process to help maximize production and throughput; address cost control pressures; support industry-standard data; enhance visualization; enable continuous improvement; and enhance organizational learning.

IBM Maximo® asset and service management solutions provide oil and gas companies with best practices to help improve the productivity of their critical assets. IBM Maximo for Oil and Gas enables organizations to strengthen and utilize the advanced product capabilities of IBM Maximo Asset Management to better support people, process and technology. This industry-specific solution helps manage each asset's life cycle—including acquisition, work management, inventory control, purchasing and preventive maintenance—as well as better manage and document regulatory compliance efforts.

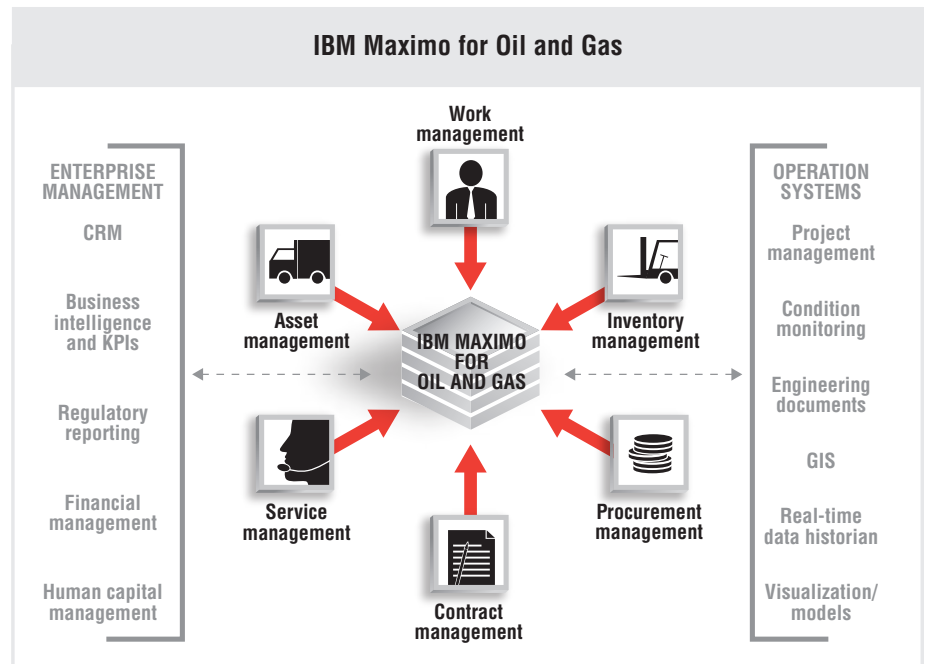
Additionally, Maximo for Oil and Gas has a number of industry-specific enhancements that align to corporate goals and objectives—including safety, reliability and operational efficiency—and thereby helps minimize the amount of customization required.

Manage assets with a single approach

Managing oil and gas assets has become more complex. Advances in technology, changes in compliance regulations, emphasis on enterprise risk and increased focus on costs have made it more essential than ever to properly manage and maintain the assets of the organization. Asset owners, operators and maintainers require a solution capable of addressing multiple asset types and providing key information for them. Maximo for Oil and Gas can help managers reduce cost, facilitate and automate common processes, and address tough challenges, including:

- Improving asset analysis.
- Monitoring, managing and documenting compliance efforts.
- Planning shutdowns.
- Instilling integrity management.
- Reducing manual intervention.
- Responding to complex supply chain demands.
- Aligning roles and responsibilities.
- Facilitating more continuous improvement.
- Standardizing and sharing data.
- Improving organizational learning.

Using Maximo for Oil and Gas, organizations can track and manage the assets (and asset performance) that are critical to the organization's overall performance. This includes assets such as equipment, tools, spare parts, onshore and offshore drilling equipment and production platforms, refineries, petrochemical facilities, and maintenance and engineering facilities.



Additionally, the enhanced capabilities of Maximo for Oil and Gas allow users to implement a service-centric business model that takes advantage of the IBM Service Management approach. This business model encourages partnerships between the maintenance organization and its internal customers. It also supports third-party service providers by tracking relevant activities and monitoring asset and service performance to agreed service levels.

Maximo for Oil and Gas gives senior and operational management the ability to view asset-related information and manage asset performance from a single repository. By managing critical assets more closely, operational and maintenance staff can help improve the uptime of critical revenue-generating assets; reduce the costs of acquiring, maintaining and even disposing of assets; and ultimately increase shareholder value.

Focusing on critical management disciplines, Maximo for Oil and Gas integrates with most business systems, allowing users to work in the ways they are more comfortable and productive.

Address the specialized needs of the oil and gas industry

Maximo for Oil and Gas builds on the processes and capabilities that Maximo Asset Management delivers to enable oil and gas organizations to focus on the industry's asset and service management challenges related to safer and more reliable operations, organizational learning and regulatory compliance efforts. Maximo for Oil and Gas includes the following industry-specific enhancements.

Safe and reliable operations

- Condition for work—Aggregate similar jobs across assets, groups of assets, areas or individual locations.
- Prioritization matrix—Designed to allow organizations to use their own methodology or industry standards such as RIME (Ranking Index for Maintenance Expenditures). This helps organizations to optimize planning and scheduling of maintenance by using preset criteria to prioritize critical assets.
- Benefits and Losses—Identify benefits that can be associated with both Solutions and Improvements. Losses can be used to record production losses with both work order and location-based reporting.
- Incident reporting—Identify and track incidents for analysis, or analyze specific incidents related to environment, health and safety (EH&S) as related to production or facility assets.
- Defects reporting—Some clients like to separate defect reporting from EH&S incident reporting. This application supports defect elimination processes and benchmarking techniques such as defect density.

Organizational learning

- Asset specifications—Import ISO 14224 (API 689)-based engineering and asset specifications to avoid the need to create the data manually and to help simplify asset classification.
- Failure codes—Import standard failure code data based on ISO 14224 (API 689) to streamline failure analysis.
- Solutions—Extends existing solution functionality to provide support for solution ownership, solution benefits, solution log and lessons learned.
- Investigations—Provides the capability to investigate unresolved incidents and defects. Allows users to record and track results of After Action Reviews and Root Cause Failure Analysis.
- Improvements—Supports the tracking and implementation of improvements identified while using the Incidents, Defects and Investigations applications. Supports the identification of improvements and establishing improvement projects as part of a process for more continuous improvement to support programs such as Total Quality Management (TQM), Six Sigma and Action Teams.

Regulatory compliance efforts

- Location details—Obtain insights about asset characteristics such as physical location, engineering reference numbers, drawing IDs, safety zones and permitting requirements.
- Work details—Identify safety-critical locations and provide a common taxonomy for locations in accordance with industry standards.
- Regulatory compliance reporting—Import regulations and sub-sections of regulations. Provides the ability to hold and link details of regulations relevant to planned work and work carried out.

Rely on a solution that can more easily adapt to your organization

No matter the size of your organization, the number of your sites or the variety of your locations, Maximo for Oil and Gas is agile enough to help manage your most unique business processes relating to asset and service management.

Built entirely on a Java™ 2 Enterprise Edition (J2EE™) component-based Internet architecture, Maximo for Oil and Gas can be integrated into most existing business systems. The technical architecture is truly open to better enable integration with enterprise resource planning, finance, human resources, engineering and design, and many more applications. This uncommon level of flexibility allows you to configure Maximo for Oil and Gas around your key business requirements.

Additionally, the flexibility of the underlying technologies within Maximo for Oil and Gas makes it easier to tailor without programming and less likely you'll be limited or constrained by the capabilities of the solution. This architecture also helps streamline the upgrade process to keep you from being locked in from one application release to another.

Leverage the IBM commitment to the oil and gas industry

IBM is committed to supporting the oil and gas industry in its realization of operational excellence. The company actively works to understand the complex and evolving issues facing the industry through a variety of programs designed to shape the direction and details of Maximo for Oil and Gas.

One such program is an oil and gas advisory council, which meets regularly and provides information that helps IBM take a more strategic approach to assist customers as they address pressing business, technical, economic and political concerns. To develop a well-rounded view of the industry, council members include IBM customers, independent consultants and academics. Their broad mix of knowledge gives IBM information and direction to better support the present and future requirements of the industry.

Additionally, the Maximo for Oil and Gas product team draws on the insights of an oil and gas advisory group, comprised of customers and industry bodies that contribute to the design and review of IBM solutions. This program offers the industry a way to help shape the direction of a commercially available product and influence IBM solutions to solve real business issues. It also furthers the spirit of communication and idea sharing that the oil and gas community has traditionally fostered.

The Maximo for Oil and Gas product team also participates actively on industry standards committees to listen to and provide feedback on a broad range of work and asset management related topics.

IBM's commitment to the oil and gas industry is underscored by the services professionals who can support your implementation. Our experts contribute unsurpassed expertise in Maximo Oil and Gas and they are well-versed in your industry. They will help you configure and install your system, providing a more cost-effective implementation and helping to reduce the time needed to achieve business benefit. The combination of our software and our services provide you with more opportunities for success than ever before.

Our Asset Management Center of Excellence methodologies and tools guide Maximo for Oil and Gas implementations and provide a comprehensive and holistic approach to asset management. With years of experience with large global Maximo software implementations and the world's largest Maximo services practice, we are highly qualified to help you. From assessment and implementation through support services, IBM is committed to your successful Maximo software project.

More than 200 oil and gas organizations (including eight of the top ten) in 51 countries rely on Maximo solutions to help optimize their asset management organizations, decrease the amount of time it takes to schedule and assign work, enhance their management and documentation of efforts to meet safety and quality requirements, and reduce administrative time.

For more information

To learn more about how IBM Maximo for Oil and Gas can deliver an approach to managing assets that helps address today's volatile industry conditions, contact your IBM representative or IBM Business Partner, or visit ibm.com/tivoli or maximo.com

About Tivoli software from IBM

Tivoli software provides a set of offerings and capabilities in support of IBM Service Management, a scalable, modular approach used to deliver more efficient and effective services to your business. Helping meet the needs of any size business, Tivoli software enables you to deliver service excellence in support of your business objectives through integration and automation of processes, workflows and tasks. The security-rich, open standards-based Tivoli service management platform is complemented by proactive operational management solutions that provide end-to-end visibility and control. It is also backed by world-class IBM Services, IBM Support and an active ecosystem of IBM Business Partners. Tivoli customers and business partners can also leverage each other's best practices by participating in independently run IBM Tivoli User Groups around the world—visit www.tivoli-ug.org



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