Asset management solutions for the nuclear industry
To support your business objectives

Tivoli® software

Adopt an approach to managing assets that can support the nuclear renaissance.

Highlights

- Manage the complete life cycle of assets across your enterprise
- Help minimize administration costs by streamlining and automating key asset management processes
- Facilitate 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, such as those defined in the Standard Nuclear Performance Model (SNPM)
- Integrate easily with existing business systems

Nuclear energy is experiencing a renaissance as many countries reassess their energy policies in light of rising energy demand, price increases, reliance on fossil fuels and focus on the environment. During the next 10 years or so, the number of nuclear reactors is expected to increase by 10 to 20 percent from the current 442. In addition to new plant construction, the industry will gain additional capacity through up-rates, life extensions and refurbishments.

Despite the focus on supply and construction, nuclear companies continue to seek more cost-effective ways to deal with production while maintaining high standards. They must do so in the face of uncertain market conditions such as price volatility, blackouts in North America and Europe, severe weather events, an aging workforce and the uncertainty of government support.

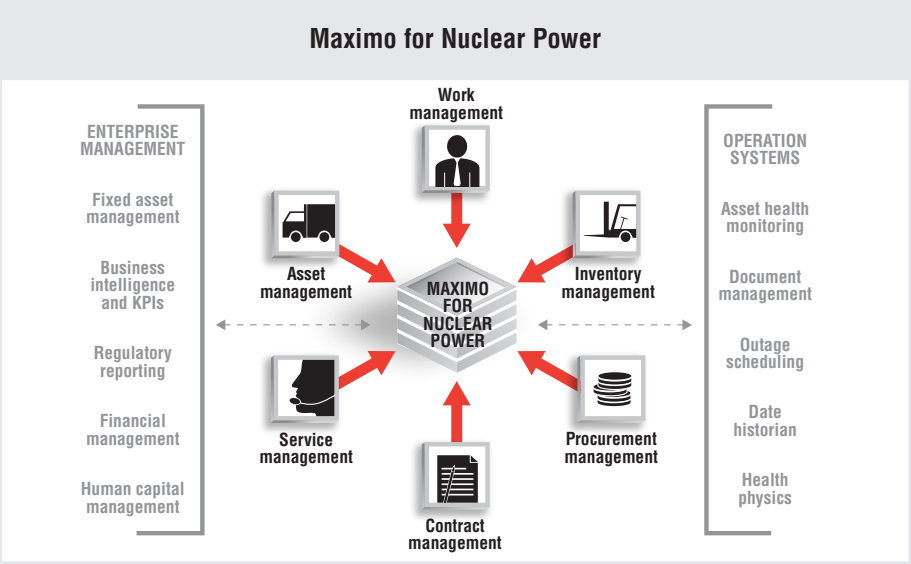
To realize operational excellence plans and deliver on the expectations of increased production, higher availability and reliability, nuclear organizations are looking to install industry-specific solutions. These solutions must support standards of excellence that meet and exceed rigid goals; standardize and automate business processes; improve the planning process to maximize production; 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 nuclear organizations with best practices to help improve the productivity of their critical assets. IBM Maximo for Nuclear Power enables organizations to utilize the advanced product capabilities of IBM Maximo Asset Management to

better support people, process and technology. This industry-specific solution helps you monitor and document an asset's life cycle including acquisition, work management, inventory control, purchasing and preventive maintenance. Additionally, Maximo for Nuclear Power has a number of industry-specific enhancements that align to corporate goals and objectives — including scalability and standardization — and thereby helps minimize the amount of customization required.

Manage assets with a single approach

Managing nuclear 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 before to properly manage and maintain all the assets of the organization. Asset owners, operators and maintainers require a solution capable of addressing the multiple asset types and providing key information for them. Maximo for Nuclear Power can help managers reduce cost, facilitate and automate common processes, and answer their toughest challenges, including the following:



- Improving asset analysis
- Facilitating and documenting compliance efforts
- Planning shutdowns
- Instilling integrity management
- Reducing manual intervention
- Addressing complex supply chain demands
- Aligning roles and responsibilities
- Facilitating continuous improvement
- Standardizing and sharing data
- Improving organizational learning

Using Maximo for Nuclear Power, organizations can track and manage assets and their performance levels critical to the overall performance of the organization. This includes assets such as equipment, tools, spare parts, steam generators, instrument and control systems, nuclear fuel, maintenance and engineering facilities, and IT assets.

Additionally, the enhanced capabilities of Maximo for Nuclear Power 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 supports third-party service providers by tracking all relevant activities and monitoring asset and service performance to agreed service levels. Maximo for Nuclear Power gives senior and operational management the ability to view key asset-related information

and manage asset performance from a single repository. By managing critical assets more closely, operational and maintenance managers 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.

Consisting of six key management disciplines, Maximo for Nuclear Power easily integrates with unique business systems, allowing your users to work the ways they are most comfortable and productive.

Support nuclear industry best practices

Maximo for Nuclear Power helps nuclear organizations in their efforts to continuously improve operations by taking advantage of industry best practices while leveraging the flexibility provided by a modern architecture. It builds on the processes and capabilities that Maximo Asset Management delivers to enable nuclear organizations to support key best-practice business processes defined in the Standard Nuclear Performance Model. Examples include AP-928 (work management), AP-908 (materials and services), AP-913 (equipment reliability) and AP-929 (configuration control).

Maximo for Nuclear Power helps nuclear organizations manage:

- Preventive maintenance and surveillance testing.
- Commitments with internal and external stakeholders.
- Corrective action programs.
- Third-party service providers.
- Functional equipment groups.
- Work planning and scheduling.
- Calibration, measurement and test equipment.
- Procurement engineering.
- Inventory control and supply chain.
- Equipment reliability.
- Capture of workforce knowledge.
- Tracing of information and activities, plus development of audit trails.

Rely on a solution that can adapt to your organization

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

Built entirely on a Java™ 2 Enterprise Edition (J2EE™) component–based Internet architecture, Maximo for Nuclear Power easily integrates into most existing business systems. Its technical architecture is truly open to enable integration with enterprise resource planning (ERP), finance, human resources (HR), asset health monitoring, engineering and design, and many more applications. This high level of flexibility allows you to configure Maximo for Nuclear Power around your key business requirements.

Additionally, the flexibility of the underlying technologies within Maximo for Nuclear Power makes it easy to tailor without programming, allowing you to work the way you want to work and not be limited or constrained by the capabilities of the solution. This architecture also helps to streamline the upgrading process to keep you from being locked-in from one application release to another.

Leverage the IBM commitment to the nuclear industry

IBM is committed to supporting the nuclear 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 Nuclear Power.

One such program is a nuclear advisory council, which meets regularly and provides information that helps

IBM take a 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 support the present and future requirements of the industry.

Additionally, the Maximo for Nuclear Power product team draws on the insights of a nuclear development council, comprised of customers and industry bodies that contribute to the design and review of IBM solutions. This program offers the industry a way to shape the direction of a commercially available product and verify that IBM solutions can help solve real business issues. It also furthers the spirit of communication and idea sharing that the nuclear community has traditionally fostered.

The Maximo for Nuclear Power product team also participates actively in the industry and standards asset management community of practice to listen to and provide feedback on a broad range of topics.

More than 200 energy organizations — including 10 nuclear organizations — 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, improve their ability to monitor and document their efforts to meet safety and quality requirements, and reduce administrative time.

For more information

To learn more about how Maximo for Nuclear Power can deliver an approach to managing assets in support of the nuclear renaissance, contact your IBM representative or IBM Business Partner, or visit www.mro.com

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