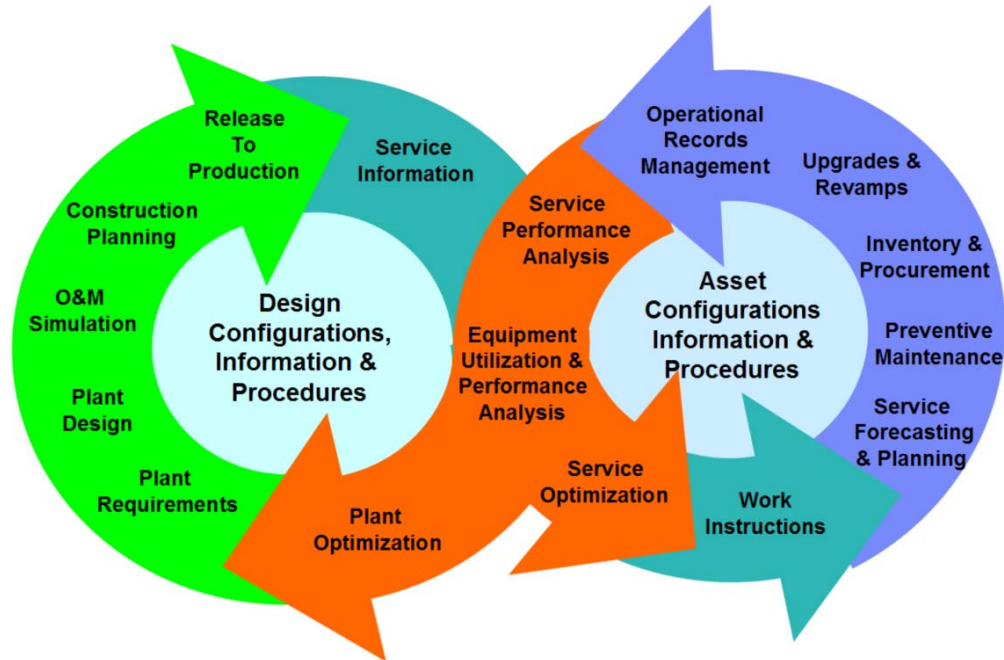


Engineering Asset Management for Maintenance

Enterprise PDM for Maintenance, Repair and Operations

Highlights

- Enterprise PLM, Enterprise Asset Management and Service Management
- Business centric dashboards for project, supplier and asset management
- Access to PLM technical documents, complex content and OEM/Supplier information
- Work order automation and maintenance status tracking
- Key Performance Indicators for accountability
- Comprehensive cost, maintenance and security auditing
- Asset lifecycle and configuration management
- Enterprise Content Management (ECM) for plant records
- Interfaces for major Enterprise Resource Planning (ERP) and scheduling programs
- Integration with major scheduling systems – MS Project, Primavera and Artemis



With a growing focus on total ownership costs, asset availability, and 24/7 operations stressing aging facilities, it's no wonder energy companies find themselves increasingly concerned with engineering asset management for maintenance. The escalating cost of managing facilities demands new business practices, performance-based contracting and high priority initial response to maintenance requirements.

Stringent regulatory and compliance constraints, security and safety concerns, and an aging workforce that could leave companies scrambling to preserve technical skills and experience are ever-increasing pressures on an industry already pushing to meet burgeoning global demand for both traditional and alternative sources of energy. Companies focused on every aspect of energy – from oil and gas and nuclear to wind and hydropower – are looking for innovative solutions to help them address key challenges

such as the increased complexity of plant assets, overcoming communication barriers inherent in existing information systems and accurately tracking the “as maintained” configuration of plant assets.

To stay ahead of the curve and their competition, leading energy companies are seeking a single, enterprise-wide access point and repository for engineering and plant records, as well as business centric dashboard views of plant performance and maintenance status. Taking and maintaining tight control over maintenance issue and service contract management, document and archiving management, equipment and system version and configuration management, as well as search and collaboration for system and maintenance information, position today's energy companies to not only weather but thrive in the challenges of today's marketplace.

IBM PLM Solutions, including ENOVIA from Dassault Systèmes and Tivoli-Maximo, empower companies to take an integrated approach to engineering asset management for maintenance, repair and operations. ENOVIA offers a best-in-class approach to information management, technical collaboration with asset-related stakeholders, project management and requirements management, as well as IP classification and reuse, work-in-progress and asset release. Project collaboration and design data management, as well as BOM, change, supply chain and document management are all realized as integrated world-class capabilities within ENOVIA.

And when ENOVIA is integrated with Tivoli-Maximo, companies powered by IBM PLM solutions are prepared to handle all aspects of asset management, inventory, procurement, suppliers and purchasing, as well as contractor services, requests, resource planning, cost estimation, project management, IT assistance and materials logistics.

IBM is helping energy companies implement a single solution for Enterprise Asset Management (EAM), IT Asset Management and Service Management that offers cost-based project and program views, improved asset readiness and service availability, and improved accountability and compliance. With ENOVIA integrated with Tivoli-Maximo, EPCs have access to as-maintained plant and product configurations, improved communication with service teams and an enhanced capability to provide maintenance services to customers.

IBM's PLM solutions also give owner/operators visibility into the latest applicable product information to make better decisions in specific instances such as repair versus replace, the capability to simulate maintenance processes in 3D to optimize work sequences and reduce product down-time and a mechanism for accessing large and/or complex product structures.

When you choose IBM PLM, you get the full value of the IBM brand: trust, quality, experience, financial stability, global reach and a proven code of conduct. As your PLM partner, IBM offers deep industry knowledge, experience as a world-class manufacturer, strength in R&D, a broad range of solution offerings and a long-standing commitment to PLM. With state of the art resources such as technical proof of concepts, IBM Global Business and Laboratory Services and third-party software from leading IBM Business Partners, IBM PLM can help you transform your business. With IBM PLM solutions, capturing best practices, educating and training your workforce and integrating your enterprise is not only possible – *it's real*.



Choose IBM—the PLM leader

IBM's PLM expertise and leadership continues to be valued by our clients. Today, we are so much more than a PLM application software vendor.

We have expanded our scope to include the integration capabilities that organizations need to manage the complexities of the entire value chain. IBM is the only company that can deliver the complete PLM solution. Our unmatched combination of consulting, applications, middleware, hardware and services, coupled with a broad knowledge of industries and IT solutions, equips us to build complete PLM solutions to fit every business—large and small. This is the IBM difference.

When you choose IBM as your PLM partner, you are choosing:

A PLM leader

IBM leads the development of PLM. Our value proposition is built on a foundation of decades of world-class IBM technology expertise, supported by thousands of IBM engineers and developers in 40 different countries. This expertise is valued across the globe, and has enabled us to develop links with business partners that continue to evolve and improve the value we can add for our clients.

An unrivalled commitment

Our unmatched annual investment in Research & Development—the key to innovation—stands at approximately \$5.5 billion. This is testament to our commitment to helping your organization succeed in a world of change. In 2006, IBM innovators contributed to 3,261 patents awarded to IBM—an average of 10 patents a day. United States Patent and Trademark Office statistics show that IBM has generated more patents than any other company for 14 consecutive years.

A world-class manufacturer

IBM possesses deep industry experience and knowledge of the challenges you face. As a primary user of PLM, we understand your business processes and have the support of a global team of engineers to help tackle your real world issues—and keep you ahead of your competition.

Breadth of offerings

We can impartially recommend PLM offerings to suit your organization, and employ and integrate the solution with your extended enterprise.

IBM Corporation
Software Group
Route 100
Somers
NY 10589
USA

The IBM home page can be found at www.ibm.com

IBM and the IBM logo are registered trademarks of International Business Machines Corporation registered in many jurisdictions worldwide. A current list of IBM trademarks is available on the Web at "Copyright and trademark information" at www.ibm.com/legal/copytrade.shtml.

DELMIA and 3D VIA are registered trademarks of Dassault Systèmes or its subsidiaries in the US and/or other countries

Other company, product and service names may be trademarks, or service marks of others.

References in this publication to IBM products, programs or services do not imply that IBM intends to make these available in all countries in which IBM operates. Any reference to an IBM product, program or service is not intended to imply that only IBM products, programs or services may be used. Any functionally equivalent product, program or service may be used instead.

IBM hardware products are manufactured from new parts, or new and used parts. In some cases, the hardware product may not be new and may have been previously installed. Regardless, IBM warranty terms apply.

This publication is for general guidance only. Information is subject to change without notice.

Please contact your local IBM sales office or reseller for latest information on IBM products and services.

Photographs may show design models. © Copyright IBM Corporation 2009. All Rights Reserved.

For more information contact your IBM Representative,
IBM Business Partner, or visit the IBM PLM Web site at:

ibm.com/software/plm