IBM

IBM Product Data Management

An innovative solution based on industry best practices

Essential to any successful PLM initiative is the ability to interoperate with existing internal systems and applications—as well as those of global partners and suppliers. The IBM Product Data Management (PDM) solution enables process and data management sharing across applications, tools and enterprises. From simple versioning to regulatory compliance, our solution can help in a broad variety of industries, from aerospace and defense to footwear and apparel.

Manage globally dispersed programs, teams and activities

Companies today rely on global product development teams to drive high-quality products to market faster, and at a lower cost, more than ever before. To achieve this with limited resources, companies need to tightly align the design-related activities between development teams, suppliers and customers. Such coordination is critical to the product development process.

The IBM Product Data Management solution uses role-based functionality to allow experts across teams and geographies to share virtual real-time information. Our collaborative product development business process applications facilitate the management of globally dispersed programs, project teams and connected activities, by streamlining tasks and responsibilities throughout the organization.

Accelerate PLM with valuable information at hand

Accelerate the delivery of more innovative products. Realize ever-increasing returns and competitive advantages. The IBM Product Data Management solution helps you to:

- Get earlier input from suppliers and business partners.
- Streamline external and internal processes.
- Adopt best practices and maximize the value of information and expertise.

Improve quality and innovation because our solution helps you put PLM information into the hands of those who need it, when they need it. The result is near real-time visibility into programs and projects, leading to more informed decisions, such as:

- When to eliminate marginal products.
- How to keep high-ROI projects on track.
- The ability to better predict product or project results.
- When to align more resources to the most important projects.

Automate and integrate product data management

Take your products from the drawing board to sourcing, manufacturing and customer delivery more efficiently with the IBM Product Data Management (PDM) solution. Maximize your intellectual assets internally and externally, from innovation to production while meeting regulatory compliance, through a collaboration network. Our solution delivers industry-specific best practices, predefined work processes, data models, reports, role-based user interfaces and document management capabilities.

The vendor of choice for PLM

From automotive to pharmaceuticals and semiconductors, the IBM Product Data Management solution is designed to leverage proven business processes, industry best practices and global product compliance with specific industry language and terminology.

IBM's core competence and in-house experience coupled with our breadth of offerings in hardware, application software, middleware and services makes us the vendor of choice to help achieve quick return on investment (ROI) of your PLM projects.

- Unmatched in the industry as an innovation leader (business, product, technology leader) —we have been the patent leader for 13 consecutive years.
- Dassault Systèmes has the largest R&D budget of the PLM ISVs and has steadily invested about 30% of its revenues in R&D.
- With IBM PLM you get the full value of the IBM brand: trust, quality, experience,

financial stability, global reach and a proven code of conduct.

- Our clients benefit from 11,000 IBM Software Group representatives, over 1,500 PLM professionals and more than 250 dedicated IT specialists, as well as over 40,000 dedicated IBM sales and support resources.

A single system for managing PDM across geographies

From the conception of the new product right through delivery, IBM Product Data Management can help you foster innovation through collaboration with global teaming and workspaces.

- Manage globally dispersed programs, project teams and connected activities.
- Provide global access to document and storage retrieval.
- Maximize development efficiency through interoperable processes that span concept to retirement.
- Validate industry best practices, process excellence and product compliance.
- Provide role-based functionality for best fit and process.
- Enable process expertise across multiple companies and geographies.
- Transform the value chain into a virtual enterprise.
- Enhance product quality through improved communication between cross-functional teams and suppliers.
- Utilize flexible workflow and planning templates that are visible to all project teams.
- Create global virtual work teams by tracking planning calendars, milestones, approvals and responsibilities in a single system integrated with virtually all other aspects of product development.

Royal Canadian Mint cuts costs with 'virtual' coins

Headquartered in Ottawa, the Royal Canadian Mint (RCM) is recognized worldwide for its quality craftsmanship, top-notch customer service, and leadership in minting technology research and development (R&D). Employing more than 650 people in all aspects of coin design, production and marketing, the RCM develops circulation and collector coins for Canada and other countries.

To meet its goals of reducing development time and costs, and to improve product quality and customer service and satisfaction, the RCM chose IBM Product Lifecycle Management (PLM) solutions, including CATIA V5 for collaborative 3D product design and ENOVIA SmarTeam for collaborative product data and lifecycle management for the SMB market.

By simplifying and bringing better control to the engineering change process and allowing users to more quickly and easily access existing data for reuse, the solution has driven down engineering and manufacturing costs.

Overall the RCM has been able to manage and reuse existing knowledge to increase creativity, innovation and collaboration enterprise-wide, taking a big step toward its vision of automating all product lifecycle processes associated with coin design, development, production and retirement.

Take cost out of processes across your organization

The IBM Product Data Management solution can help you drive profitable growth through cycle time reduction and increased resource productivity. Our solution is designed to:

- Decrease design change costs by identifying issues early in the development cycle, when they are less expensive to overcome.
- Deliver on-time, on-budget product launches due to enhanced management dashboard visibility and risk mitigation from concept to launch.
- Reduce documentation re-work with more effective reviews and electronic sign offs.
- Create an efficient procurement process to drive down cost and increase margins.

Gain flexibility throughout your PDM value chain

The IBM Product Data Management (PDM) solution uses the application portfolio from Dassault Systèmes, which consists of ENOVIA for data administration and decision support. Application components are comprehensively integrated with a modular structure and extreme scalability. We use the enterprise application integration application, IBM WebSphere® Business Integration, to transfer traditional business transactions to the Web.

A client-oriented open architecture platform

We leverage our deep experience and industry-specific expertise to help other companies become more innovative. We have over 20,000 customers that are using IBM's PLM experience, tools and capabilities to conceptualize, design and build innovative products that improve business results.

- We share clients' vision of an open enterprise integration platform with CAD, CAM, PDM, ERP, SCM, CRM, manufacturing and legacy software applications. Open systems give you the full flexibility you need to run your business.

- Only IBM has the global reach to provide consistent and uniform implementation practices across your entire enterprise and supply chain whether it is design configuration or license management. We bring a proven set of practices, policies and procedures that minimize disruption as you deploy PLM globally.
- IBM has been the U.S. patent leader for 13 consecutive years. We have developed worldwide practices that help ensure quality implementations and minimize application software disruption. Our unique one stop shopping enables you to have faster implementations with better quality.

IBM ties all the components together for you

IBM offers a full suite of PDM applications from Dassault Systèmes and integrates data from various databases and applications through IBM WebSphere Business Integration, enabling a Web-based transaction system for globally dispersed teams.

Your solution may include the following components.

- ENOVIA MatrixOne provides best-in-class collaborative business processes for the enterprise level organization, including industry specific solutions based on proven best practices.
- ENOVIA SmarTeam provides highly-flexible collaborative product data management solutions for mid-sized companies and engineering divisions of large organizations.
- ENOVIA VPLM provides a virtual product development environment including lifecycle management, and decision support for companies making complex, high-value products.
- ENOVIA DMU solutions enable people involved in engineering and process decisions to perform collaborative and immersive visualization, navigation, review, analysis and simulation of all complexities of digital mockups (DMU) and technical data.
- ENOVIA 3DLive delivers enterprise users with a single environment of the PLM information required to understand, collaborate, and make decisions in today's spread-out organizations, dealing with more complex products and buckets of information.

Payr Engineering GmbH manages business growth

Founded in 1998, Payr Engineering GmbH is a company of 13 employees providing basic and detailed engineering designs for the automotive,

aerospace and manufacturing industries. A client will outsource its product design phase processes to Payr Engineering who will then work with that client to establish a definitive project concept. In 2005, Payr Engineering's construction (design) revenue reached €730,000.

The company made a strategic decision to invest in CATIA V5 software—part of the IBM Product Lifecycle Management (PLM) offering and developed by Dassault Systèmes—to complement its existing CAD systems.

CATIA V5 Mechanical Design and Shape Design & Styling modules enable the company's engineers to design parts in the automotive and aerospace industries' preferred format. An ENOVIA SmarTeam and TeamPDM solution combined CATIA V5 and other CAD applications on a single collaborative platform. The result is a system that can support several different CAD systems efficiently and flexibly, and integrate its design processes with those of its clients.

A platform with cost-saving benefits

IBM can help you unlock and utilize information and expertise that's spread across your global business by integrating databases and applications with the IBM Product Data Management solution. This can improve your cost of ownership and help:

- Reduce re-work and process redundancy by enabling designers, engineers, administrators and partners to access real-time information.
- Roll out higher quality products faster by promoting online collaboration, information sharing and visibility into responsibilities and sign-offs from a single user interface.
- Avoid large capital investments in infrastructure with an integrated operating environment that allows you the flexibility to scale up or down as the market demands.