

CATIA

# CATIA PLM EXPRESS

## THE FASTEST ROAD TO PLM



3D  
DS  
CATIA



**CATIA is the world's leading solution for product design excellence. It addresses all manufacturing organizations, from OEMs, through their supply chains, to small independent producers.**

## **CATIA PLM EXPRESS**

### **PLM WITHIN YOUR REACH**

#### **BECAUSE PLM RETURN ON INVESTMENT IS NOT ONLY FOR BIG PLAYERS**

Long perceived as a high-end initiative limited to large corporations and projects, PLM is now widely recognized for the value it brings to companies of all sizes. Smaller enterprises today realize they can also benefit from PLM to promote collaboration and innovation to address their product development challenges. To boost innovation and competitiveness requires more than just CAD.

Designed specifically for small and medium enterprises, CATIA PLM Express is an

all-in-one flexible solution that provides affordable and easy access to PLM. CATIA PLM Express delivers a pragmatic, role-based approach mapped with specific industry and job-related requirements. It provides the right tools for the right people and grows with them one step after another as business needs evolve.

Combining all the power of CATIA's design excellence with ENOVIA SmarTeam's collaborative virtual product information management, CATIA PLM Express is the ideal solution to help SMBs adopt PLM.

## **CATIA**


### **DESIGN EXCELLENCE**

#### **LEADING THE WAY TO PRODUCT SUCCESS**

As the world leader in product design software solutions powered by 3D, CATIA applications and services enable businesses of all sizes in all industries around the world to digitally define products, from the simplest to the most complex. CATIA can be applied to a wide variety of industries and is used to design anything from an airplane to jewelry and clothing.

Open, scalable, and easy to deploy, CATIA addresses the complete product development process from product concept and specification through product-in-service and facilitates true collaborative engineering across disciplines.

Capitalizing on 25 years of extensive experience working with world-class customers, CATIA has developed software and services to optimize critical processes in key industries. A pioneer solution and a standard for many industrial processes, CATIA bears Dassault Systèmes imprint of cutting-edge technology, functional customization, and intensive support. By constantly learning from our customers, we can rapidly tailor our solutions to changing production contexts and new business environments, in turn helping our customers to transform their business and increase value for their own clients.



Designed specifically for small and medium businesses, CATIA PLM Express provides affordable and easy access to PLM for companies like yours.

## **Simple**

Easy to use and understand

## **Powerful**

Full strength of CATIA with ENOVIA  
SmarTeam-powered collaboration

## **Rapidly deployable**

Out of the box

## **Flexible**

Tailored to your own needs

## **Scalable**

Easy to grow as you go

## **Affordable**

Low-cost entry to world-class PLM solution

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# CATIA TEAM PLM

## A SINGLE COLLABORATIVE PLATFORM

CATIA TEAM PLM, THE CORE FOUNDATION FOR ALL CATIA PLM EXPRESS ROLE-BASED SOLUTIONS, OPENS THE DOOR TO THE HIGHEST STANDARD.

Tailored for all business across all industries, CATIA Team PLM incorporates CATIA's knowledge-based, powerful modeler and latest design technologies for product creation. CATIA Team PLM also delivers core collaborative virtual product information management capabilities via ENOVIA SmarTeam, providing optimized CATIA design management and a solid foundation primed for PLM solution scaling.

With this core configuration alone, users get access to:

### ULTRA-FAST KNOWLEDGE-BASED MODELING

- Easy product creation, from simple to sophisticated, with powerful CATIA modeler
- Unique knowledge capture and reuse for innovation and fast design change
- High-performance, traceable design intent with multi-body approach
- Wide range of solid and surface dress-up capabilities
- Comprehensive drawing production with market-leading generative drafting fully associative with 3D

### READY-TO-GO TEAM COLLABORATION

- Native access to virtual product information directly from within CATIA
- Pre-customized product information for managing and re-using customer assets
- Fully secured environment
- Collaborative design iteration
- Traceability for full product lifecycle management

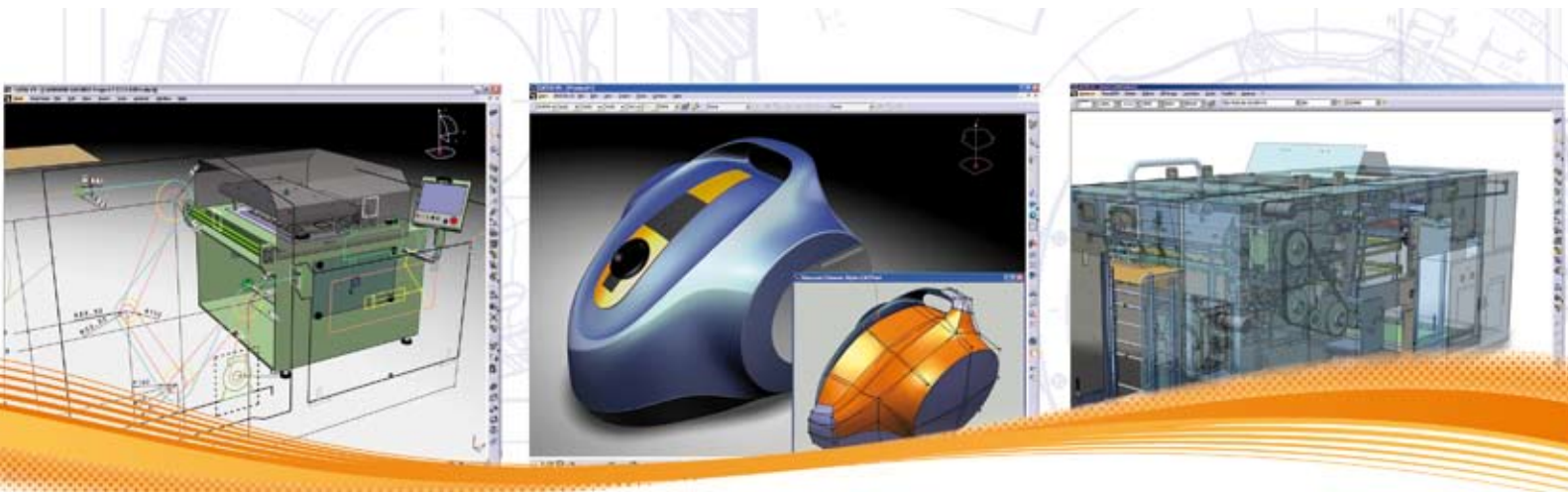
### SCALABLE PLATFORM

- Windows®-based intuitive user interface
- Standards support - DXF, DWG, CADAM, IGES, STEP AP203 and AP214 - to simplify exchanges across the supply chain
- Leverages CATIA V4 assets
- Free 3D XML format for all
- 240 CAA V5 partner applications to cover highly specialized disciplines

# TAILORED SOLUTIONS

## BASED ON JOB-RELATED ROLES

CATIA PLM EXPRESS DELIVERS ALL THE FUNCTIONALITY AND BENEFITS OF CATIA ORGANIZED INTO SIX COMMON ROLES TO ADDRESS SPECIFIC BUSINESS REQUIREMENTS AND ORGANIZATIONAL DEFINITIONS.



### Layout Engineer

The layout engineer defines the product architecture with a comprehensive layout driven by product specifications, key dimensions and component placement in order to ensure product feasibility and detailed design collaboration.

With CATIA PLM Express, 2D/3D technologies are flawlessly integrated for easy and rapid iterations in order to achieve the conceptual phase of the product and concurrently activate detailed design. Optimized design methodologies are captured in templates and reused interactively by all designers, resulting in dramatic productivity gains and providing agility for design changes.



### Styled Product Engineer

Style is one of the crucial keys to develop customer loyalty and capture new clients. Industrial designers need intuitive and easy-to-use solutions to “Design at the Speed of Imagination” and make their ideas come to life.

CATIA PLM Express enables designers to work concurrently on style and engineering, and simulate the product’s appearance for quick style validation. Integrating the styling process with detailed design and manufacturing allows companies to quickly launch new ideas in the marketplace.



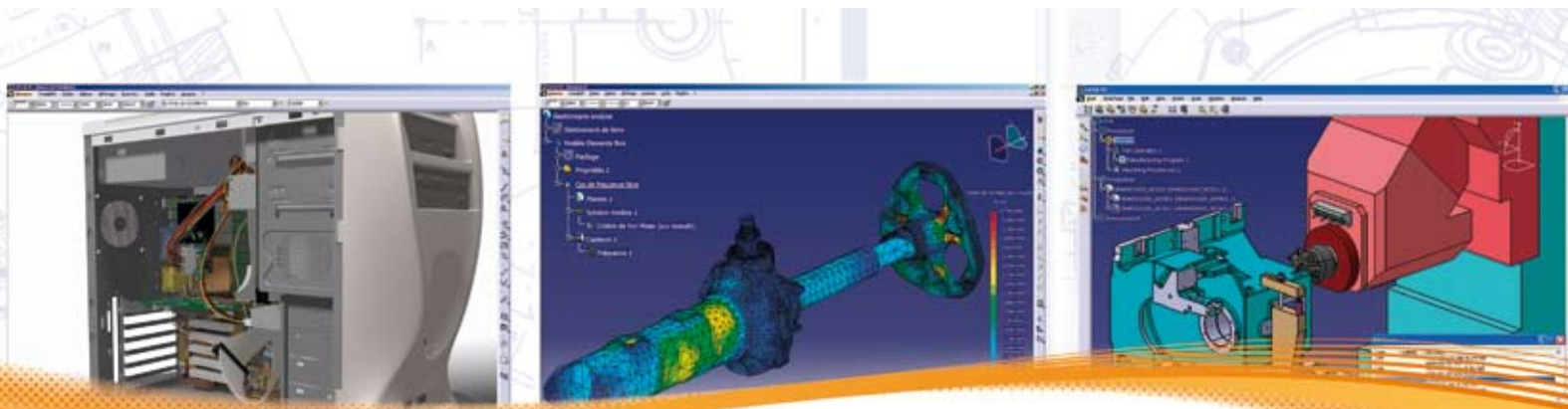
### Mechanical Product Engineer

To deliver the right products to eager customers in less time than ever before, mechanical and tooling designers need to complete tasks in minutes, instead of hours or days, and to design products right the first time.

CATIA PLM Express fosters the design of fabricated, molded, cast, forged, machined, and composite parts with first-class, robust solutions. The unique and powerful specification-driven modeling approach promotes efficient concurrent engineering between styling and mechanical shape design, while ultra-fast functional modeling fosters productivity and flexibility.

## THE RIGHT FIT

Based on these six roles, a wide range of high-valued option packages are available to extend the CATIA Team PLM core configuration and easily define the right solution for your business needs. Each option fulfills all major operational needs of a specific user profile or discipline. Most are available as shareable to provide you with high-value deployment and an easy path for growth.



### Equipment Product Engineer

The growing complexity of products and the drive to reduce development time makes it critical to visualize the full virtual product, including the mechanical components as well as fluid, electrical and other systems.

CATIA PLM Express eases the definition of a product's equipment such as piping, tubing or the electrical control and power systems. The design of physical wire harnesses is driven by logical specifications and is integrated with harness manufacturing. The realistic simulation of 3D wire harness packaging in an integrated environment reduces design time and improves the overall quality of large-scale electrical systems.



### Review & Optimize Engineer

Today's manufacturing industry demands an extensive use of analysis, simulation, and collaborative review for better product assessments earlier in the design process.

CATIA PLM Express offers a broad portfolio of powerful finite element modeling and analysis solutions, fully integrated within the design environment to address the needs of analysis engineers and designers. Reviewers and designers are connected to make quick and efficient decisions with advanced collaborative reviews on digital prototypes directly in the 3D design environment.



### Manufacture Engineer

Ensuring maximum product quality and manufacturing efficiency requires an easy-to-use and innovative NC programming and machining simulation solution, fully immersed within the design environment.

Widely used in large and small companies handling 2.5-axis milling, 3-axis dedicated to mold tooling manufacture, 4- and 5-axis complex machining, as well as lathe machining, across manufacturing segments (prototype, mold and die, complex aerospace parts, composites parts manufacturing etc.), CATIA PLM Express significantly reduces overall manufacturing process time.

# FAST TRACK TO PLM ROI

CATIA PLM EXPRESS OFFERS A SIMPLE WAY TO UNDERSTAND AND IMPLEMENT PLM WITHIN YOUR ORGANIZATION. MAKE IT YOUR CHOICE TO IMPROVE TOP-LINE REVENUE GROWTH AND BOTTOM-LINE PERFORMANCE.



## INNOVATION

CATIA PLM Express supports innovative product development with leading-edge design technologies to strengthen your brand identity, nurture customer loyalty, and help you capture new clients:

- Introduce a high ratio of new products to the markets regularly
- Rapidly react to the latest trends
- Integrate new technology into products

## TIME

CATIA PLM Express can fast-track your product development at every stage so you stay ahead of the game:

- Capitalize on company's IP and previous designs with intelligent, built-in knowledge templates

- Reduce iterations thanks to concurrent engineering and automatic propagation of design modifications
- Automate repetitive and tedious design tasks
- Easy-to-learn and highly productive applications

## QUALITY

CATIA PLM Express optimizes product quality, while shortening the development cycle:

- Sustain quality standards through every phase by embedding design rules
- Capitalize on pre-approved standard components that meet quality requirements
- Avoid design errors with up-front integration of manufacturing constraints in design
- Improve product quality with early quality checks directly in the design environment

## COST

CATIA PLM Express provides you with the right tools to meet cost reduction challenges head-on:

- Reduce buying, manufacturing, storing and maintenance costs with extensive use of standard parts and components
- From costly physical prototypes to virtual prototypes
- Seamless collaboration between design, simulation, and manufacturing teams eliminates traditional gaps and costly design errors



“  
WITH CATIA PLM EXPRESS,  
WE HAVE REDUCED OUR TOTAL  
PRODUCT DEVELOPMENT  
LIFECYCLE FROM 12-16 WEEKS  
DOWN TO 4-6 WEEKS.”

Matthias Nedfors,  
Product Manager R&D department,  
Fueltech Sweden

“WITH CATIA PLM EXPRESS,  
WE HAVE REDUCED OUR TOTAL  
PRODUCT DEVELOPMENT  
LIFECYCLE FROM 15-16 WEEKS  
DOWN TO 4-6 WEEKS.”

Matthias Nedfors,  
Product Manager R&D department,  
Fueltech Sweden

# IT'S YOUR TURN

Want to get started building your personally tailored  
CATIA PLM Express Solution?

Visit [www.3ds.com/my-catia-plm-express](http://www.3ds.com/my-catia-plm-express)

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### About Dassault Systèmes

As a world leader in 3D and Product Lifecycle Management (PLM) solutions, Dassault Systèmes brings value to more than 100,000 customers in 80 countries. A pioneer in the 3D software market since 1981, Dassault Systèmes develops and markets PLM application software and services that support industrial processes and provide a 3D vision of the entire lifecycle of products from conception to maintenance. The Dassault Systèmes portfolio consists of CATIA for designing the virtual product - SolidWorks for 3D mechanical design - DELMIA for virtual production - SIMULIA for virtual testing - ENOVIA for global collaborative lifecycle management, and 3DVIA for online 3D lifelike experiences. Dassault Systèmes is listed on the Nasdaq (DASTY) and Euronext Paris (#13065, DSY.PA) stock exchanges. For more information, visit <http://www.3ds.com>

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