

Aerospace PLM Practices

Composite Part Design to Manufacturing

- » Accurately predict final ply generation using embedded knowledge to create dependable composite parts.

Structural Machined Part Design to Manufacturing

- » Organized layouts and team structures enable concurrent design for more iterations in less time.

Structural Sheet Metal Part Design to Manufacturing

- » Integrate preferred manufacturing standards into your design context to build quality sheet metal parts.

Electrical Systems Design to Manufacturing

- » Produce electrical systems right the first time by managing every relationship necessary for proper functionality.

"Dassault Systèmes' PLM Engineering Desktop is a robust set of templates that include "engineering cockpits" for aerospace and automotive industry design engineers. Built on ENOVIA VPLM, they incorporate industry best practices and competencies that can be quickly and easily tailored to implement company specific solutions."

- Ken AMANN, CIMdata Director of Research

ENOVIA VPLM

PLM Engineering Desktop for Aerospace

The era of a single manufacturer producing an entire airplane has come and gone. Aircraft and defense systems manufacturers are increasingly relying on global partners and suppliers to share risk and maximize product development and manufacturing expertise. On the other hand, global competition and pricing wars are pressuring manufacturers to produce more innovative products such as fuel-efficient aircrafts and cutting-edge surveillance systems faster than ever before.

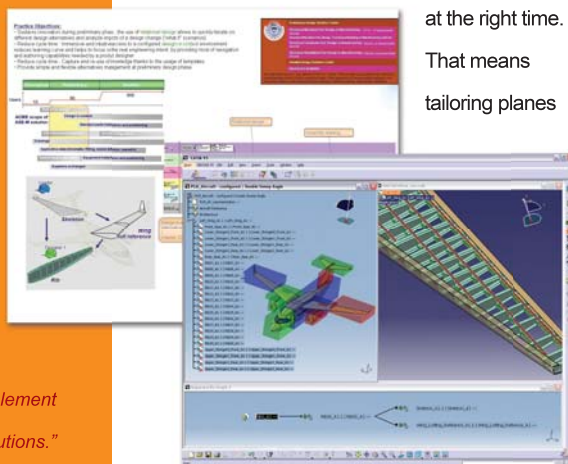
To succeed in the high-stakes aerospace marketplace, every available resource is needed to focus on the core business – building and delivering the right aircraft to the right market

at the right time.
That means
tailoring planes

to more consumer segments, while standardizing components to accelerate design cycles and improve profit margins. But how do you manage global value chains, enter new markets, and capitalize on new technologies, all at the same time? Finally, how do you leverage these intellectual and IT assets to gain the most return on your product development investments?

As a partner to the aerospace industry for over 25 years, Dassault Systèmes consistently provides PLM solutions that outpace rivals in delivering value across all areas of product development. The newest offering from Dassault Systèmes, the PLM Engineering Desktop for Aerospace, extends the existing solutions portfolio with a proven PLM implementation strategy, tools and templates, and best-in-class aerospace practices to accelerate and optimize your PLM deployment.

Leveraging knowledge and insight gleaned from working with the world's leading aerospace manufacturers, Dassault Systèmes developed the PLM Engineering Desktop to enable industry best practices, yet be quickly implemented and easily tailored to meet each customer's business goals and technology objectives.



The PLM Engineering Desktop delivers a predefined and customizable V5 PLM environment.

Comprised of a predefined, customizable V5 PLM environment, which includes data and security specifications, core process methodologies called Building Blocks, and industry-specific PLM Practices, the PLM Engineering Desktop is a comprehensive solution that covers the infrastructure, methodologies, and organizational requirements to successfully deploy an optimal V5 PLM environment. Each PLM Practice makes use of the latest engineering methods such as concurrent engineering and relational design to speed product development and guarantee quality.

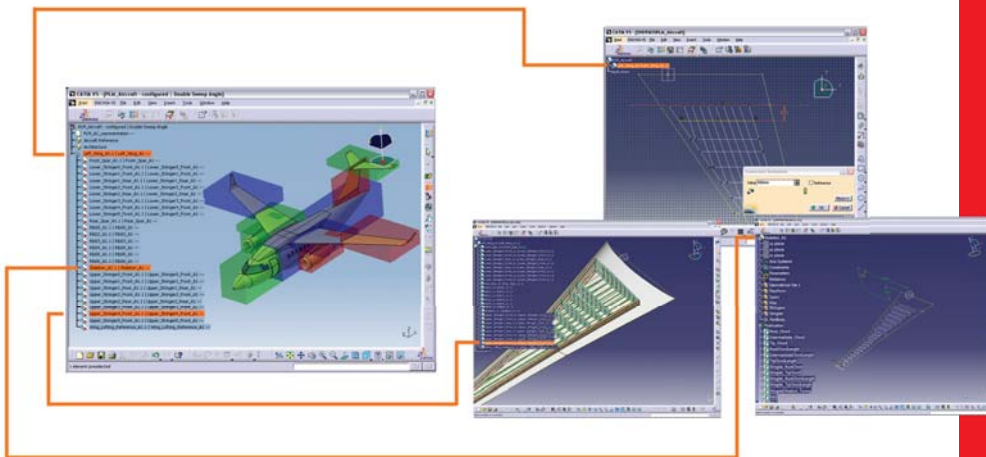
Specific to the needs of aerospace, the Structural Machined Part Design Practice, for example, outlines the methodology to construct, design, and update the virtual representation of a machined structural aircraft part. Covering the development

PLM Practice makes use of the latest engineering methods such as concurrent engineering and relational design to speed product development and deliver the quality customers expect from DS PLM solutions. For example, relational design is a Building Block demonstrating change propagation and product optimization, driven by logical part and assembly association. All facets of part management and any attached objects related to the maturing design are considered in the context of the latest ENOVIA V5 release to ensure consistent operation and robust application.

The PLM Engineering Desktop is a proven accelerator for initial ENOVIA VPLM implementations that increases the value of your V5 applications, optimizes business processes and minimizes program/project risk. Ensuring

PLM Engineering Desktop Building Blocks

- **Installation & Administration of CATIA V5 & ENOVIA V5 VPM**
- **People & Organization & Security**
- **Customization DMC & Mask**
- **Product Structure Initialization**
- **Maturity Management**
- **Configuration Management**
- **Visibility Management**
- **Change Management**
- **Design in Context**
- **Relational Design**
- **Catalog Management**
- **Assembly & Part Drawing Management**



Industry-specific PLM Practices to guide customers through their ENOVIA VPLM implementation.

process from start to finish, the Structural Machined Part Design PLM Practice incorporates ENOVIA VPLM Building Blocks such as relational design and maturity management to ensure all aspects of the development are supported by the current methods and version of DS PLM software. Each

a successful first phase of deployment the PLM Engineering Desktop also prepares and positions companies for subsequent phases of PLM deployment and targeted process improvement.

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