



3DEXPERIENCE®

READY TO BUILD

AEROSPACE & DEFENSE



Lockheed Martin Photo

Repeatable Process Plans for Small or Large Assemblies

DELMIA's Ready to Build solution for the Aerospace & Defense industry enables companies to define repeatable process plans for small to large assemblies.

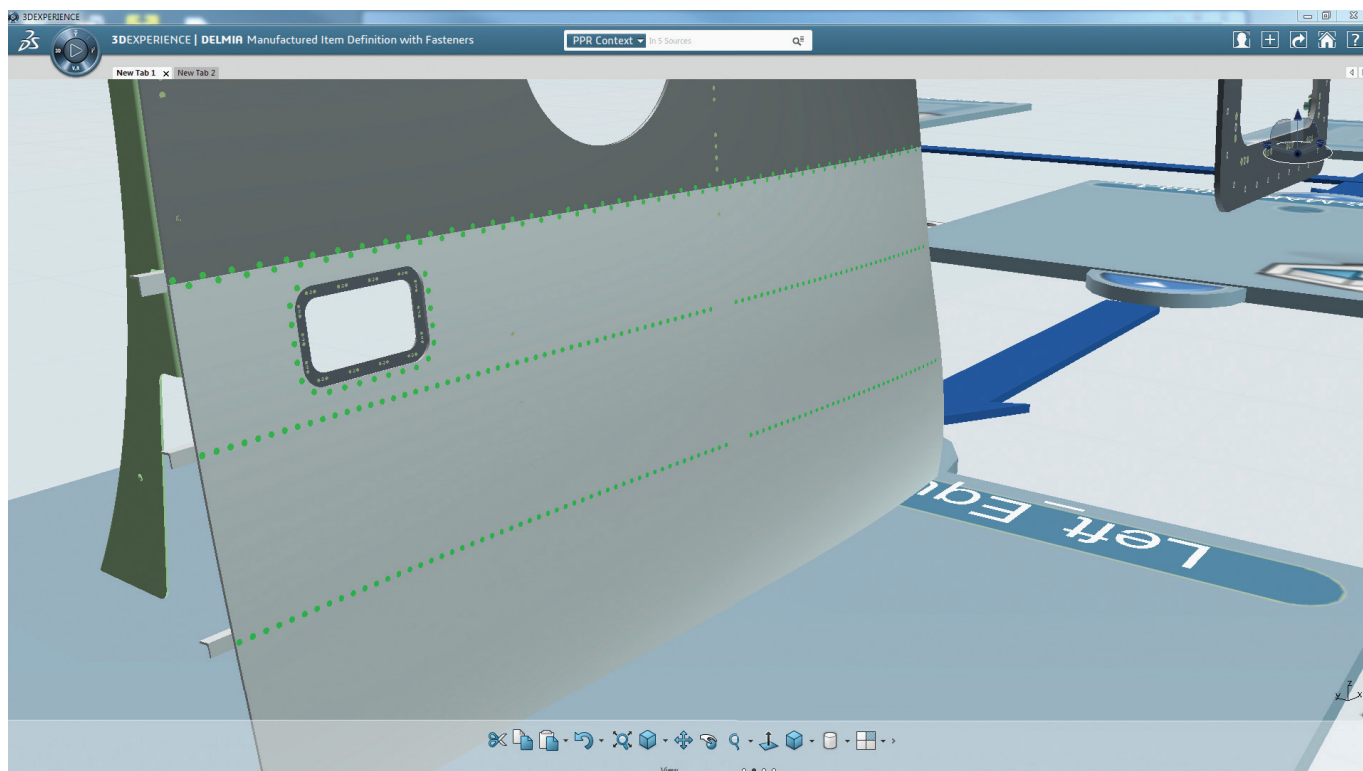
DELMIA's Aerospace & Defense Ready to Build solution is an industry proven approach which facilitates true design and manufacturing planning in context within a collaborative environment, across the extended enterprise.

The MBOM for as-specified end-items can be defined considering make-buy decisions, condition of supply, production rate, and cost targets. Users can consume and reconcile all key-characteristics and fastener requirements then define and validate the complete sequence of assembly in the context of the assembly tooling and fixtures. Ultimately, users can document and deliver the detailed work instructions required to support the mechanic on the shop floor.



Define repeatable process plans for small to large assemblies





Plan fasteners within a dedicated lifecycle in the context of product assemblies

INDUSTRY CHALLENGES

- How to increase manufacturing planning speed?
- How to ensure fastener reconciliation?
- How to adapt to assembly constraint changes?
- How to specify and communicate condition of supply?

SOLUTION HIGHLIGHTS

- Define and reconcile the manufacturing bill of materials (MBOM)
- Plan fasteners within a dedicated lifecycle in the context of product assemblies
- Digital continuity between engineering and manufacturing to quickly communicate the impact of change orders
- Consume and validate all key characteristics and fastener requirements for the end item
- Design or reuse tooling and fixtures to support the assembly process
- Define the textual and visual work instructions required to support the mechanic on the shop floor

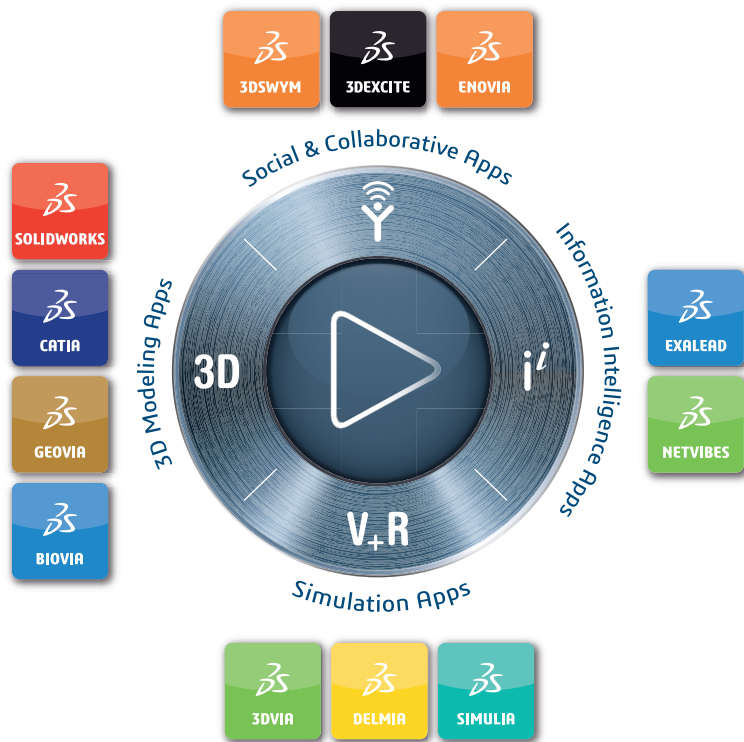
SOLUTION VALUES

- Realize real time Engineering BOM to Manufacturing BOM reconciliation
- Improve "First Article Inspection" quality
- Accelerate production rate ramp-up
- Reuse configured engineering data that is automatically updated as the design evolves
- Validate feasibility of assembly plans before start of production
- Reduce shop floor change requests

USER ROLES

- Manufacturing Engineer
- Process Planner

For more information, please visit www.3ds.com/DELMIA



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Europe/Middle East/Africa

Dassault Systèmes
10, rue Marcel Dassault
CS 40501
78946 Vélizy-Villacoublay Cedex
France

Asia-Pacific

Dassault Systèmes K.K.
ThinkPark Tower
2-1-1 Osaki, Shinagawa-ku,
Tokyo 141-6020
Japan

Americas

Dassault Systèmes
175 Wyman Street
Waltham, Massachusetts
02451-1223
USA

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