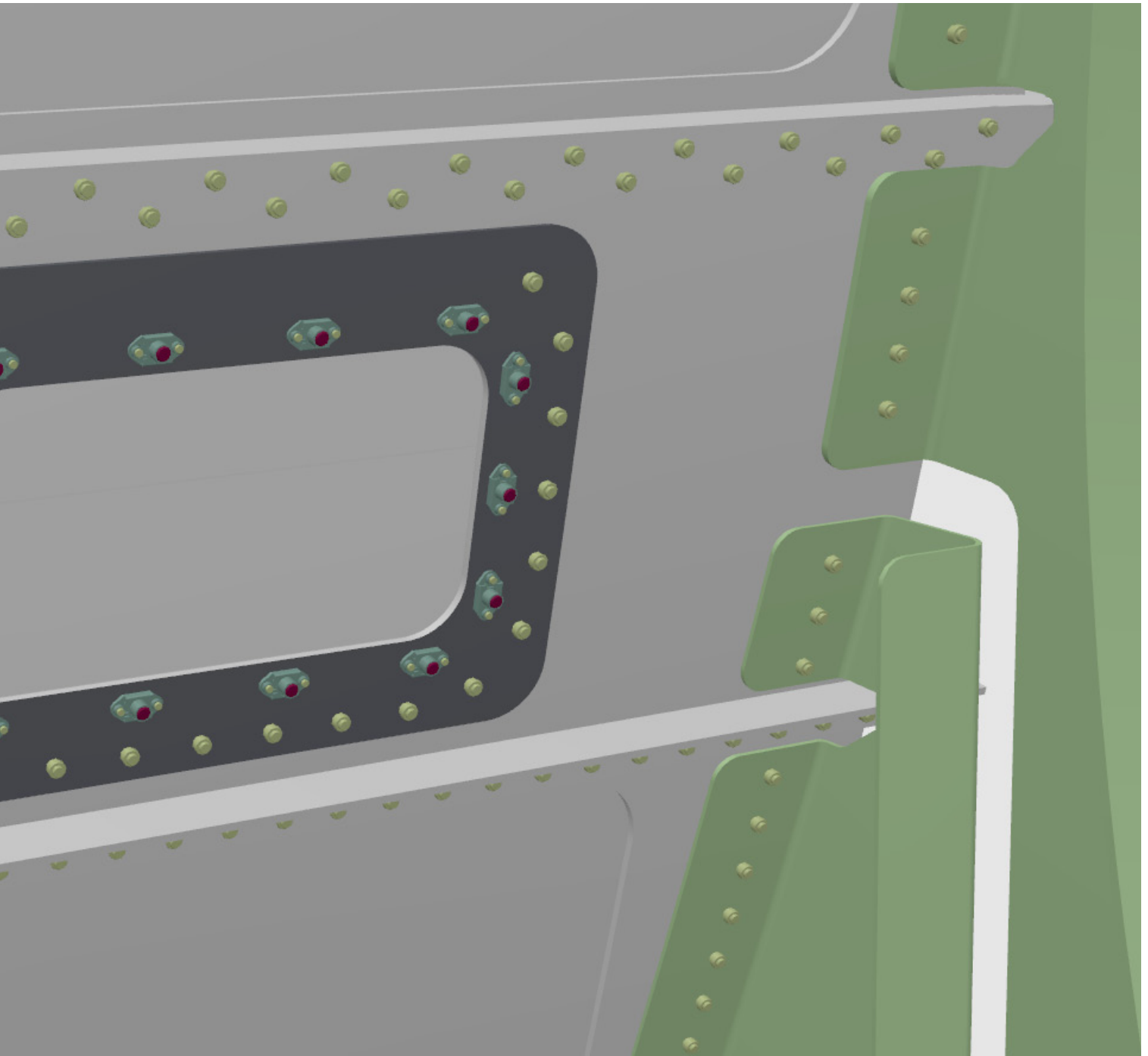


# ASSEMBLY

AEROSPACE & DEFENSE

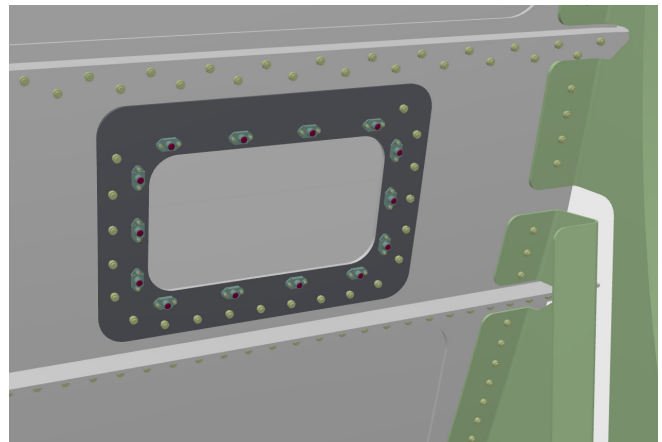


# Repeatable Process Plans for Small or Large Assemblies

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

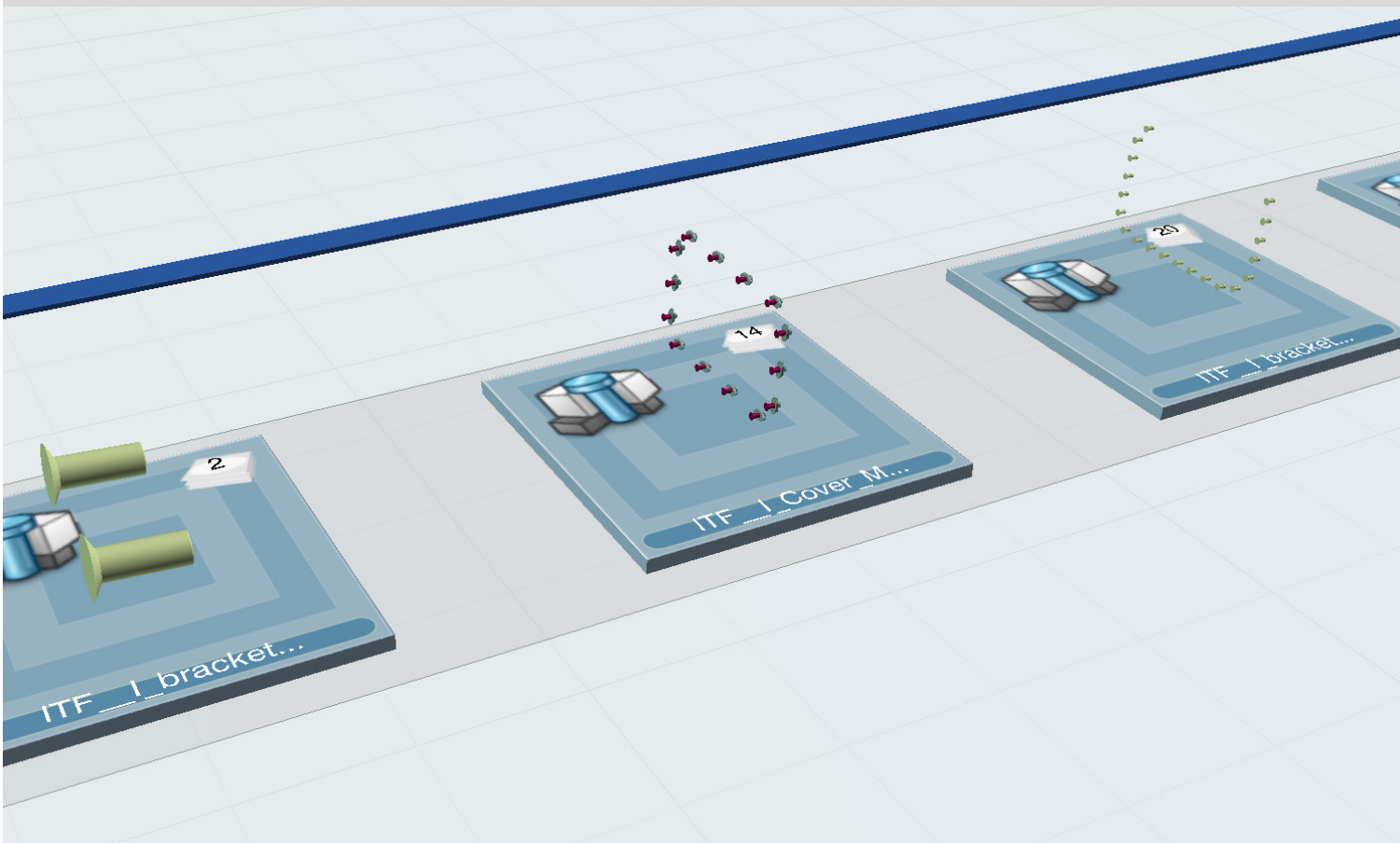
DELMIA's Aerospace & Defense Assembly solution is an industry-proven approach which facilitates true design and manufacturing planning in context within a collaborative environment, across the extended enterprise.

The as-specified end-item can be assembled per the desired production schedule considering make-buy decisions, condition of supply and cost targets. Users can also consume and validate all key-characteristics, fastener requirements for the end-item, and design tooling and fixtures for the assembly resources. They can also define the textual and 3D 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

- 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 & fastener requirements for the end-item
- Design tooling and fixtures to support the assembly process
- Simulate and offline program robots and riveting machines
- Define the textual and 3D work instructions required to support the mechanic on the shop floor

## SOLUTION VALUES

- Achieve real-time fastener 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

## USERS

- Manufacturing Engineer
- Process Planner
- Robot Programmer



## Delivering Best-in-Class Products



Virtual Products



Model and Simulate our Planet



3D Design



Information Intelligence



Realistic Simulation



Dashboard Intelligence



Digital Manufacturing and Production



Social Innovation



Collaborative Innovation



3D Communication

---

### About Dassault Systèmes

Dassault Systèmes, the **3DEXPERIENCE** Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes' collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 150,000 customers of all sizes, in all industries, in more than 140 countries. For more information, visit [www.3ds.com](http://www.3ds.com).

CATIA, SOLIDWORKS, SIMULIA, DELMIA, ENOVIA, GEOVIA, EXALEAD, NETVIBES, 3DSWYM and 3DVIA are registered trademarks of Dassault Systèmes or its subsidiaries in the US and/or other countries.

---

#### Europe/Middle East/Africa

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

#### Asia-Pacific

Dassault Systèmes  
Pier City Shibaura Bldg 10F  
3-18-1 Kaigan, Minato-Ku  
Tokyo 108-002  
Japan

#### Americas

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

Visit us at

**[3DS.COM/DELMIA](http://3DS.COM/DELMIA)**

