

CONFIGURED WORK INSTRUCTIONS for Aerospace

Create and manage assembly work instructions from a configured 3D definition

Configured Work Instructions for Aerospace is a unique breakthrough technology that dramatically improves current methodologies for defining, releasing and delivering work instructions to the shop floor execution system. This solution combines the process planning abilities within DELMIA with the illustration capabilities of 3DVIA Composer. The result is a revolutionized documentation process that makes the planning and illustration job easier by delivering a more comprehensive instruction package to the shop floor.

Aerospace OEMs and suppliers must ensure that their shop floor has manufactured and assembled each product as design intended, for compliance with FAA regulations. "As Designed" intent must be reconciled within the shop floor's "As Planned" work instructions as a foundation for an accurate "As Built" result.

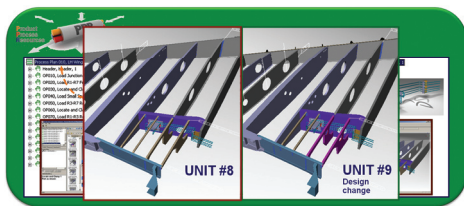
DELMIA enables companies to reduce the amount of time spent creating complete, accurate work instructions for each unit while accommodating late changes as fast as possible, thus reducing shop floor costs and improving reliability.

Challenges

- Delivering 3D Model-based work instructions to the shop floor, based on validated / reconciled planning data
- Minimize efforts required to incorporate design or manufacturing-driven changes into work instructions
- Deploying an intuitive, easy-to-use interface for authoring and illustrating 3D work instructions
- Reuse of common work instructions across different configurations
- Adoption of a similar methodology for maintenance manual creation and Condition of Supply illustration

Solution

- **Reduce Time** - Using Configured Work Instructions, a detailed 3D work instruction can be created in half the time of manual methods. Model based 3D Design and planning enables an efficient reuse of your Intellectual Property. The efficient reuse of upstream engineering and planning information delivers comprehensive, clear and accurate 3D work instructions for use on the shop floor.
- **Build with Integrity** - Configured Work Instructions allows shop floor workers to receive accurate instructions and limited change notifications where necessary, resulting in increased worker touch time, faster turn around time for completing change requests and improved product quality.
- **Deliver Consistency** - Reuse and validation of instructions means that shop floor workers deal with reduced plan variability. Workers are notified upon changes and updates to maintain the most current view.



A direct association between design, manufacturing planning, and shop floor deliverables for automatic changes ensures integrity of the process and product.

*A seemingly “simple” part redesign could result in **up to 80,000** downstream work instruction updates.*

Key Features

- Dedicated user interface for work instruction authoring and illustrating
- Reuse validated and reconciled process planning details for creating and illustrating work instructions
- Author and store work instruction details under individual configuration control for each operation, filtering the entire plan for the specific configuration, unit or range for approval and delivery
- Capture reference geometry with the associated product build-up and planning context for each plan



Revolutionize the way you document the assembly process with interactive documentation from engineering intent to the shop floor.

For more information, visit our website at <http://www.plmv5.com/delmiaworkinstructions>

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 to recycling. 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' shares are listed on Euronext Paris (#13065, DSY.PA) and Dassault Systèmes' ADRs may be traded on the US Over-The-Counter (OTC) market (DASTY). For more information, visit <http://www.3ds.com>.

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