

## AEROSPACE & DEFENSE OPERATIONS MANAGEMENT



**Dramatically Improve  
the Way you Manage  
Variability and  
Non-Conformance  
within your Global  
Supply Chain**

The demands on companies to efficiently manage their manufacturing processes are increasing, especially processes that are complex and subject to government regulations. As the virtual world of design and the reality of manufacturing are quickly combining, this can be leveraged to benefit both engineering and operations.

Processes that do not facilitate collaboration between engineering, production, quality and the supplier network hinder continuous improvement efforts of product and process. Better data sharing and visibility between departments, facilities and across an extended supply network reduces cycle times, improves quality and efficiency, and supports strategic planning efforts.

With DELMIA Operations Management, visibility extends beyond product or part issues. Manufacturing and engineering can see, in real-time, product or process information – wherever it is in the manufacturing process. A 3D dashboard representing the shop floor with real-time location and status of non-conformance, run time, schedule adherence and change order information can be viewed and understood easily and acted upon quickly.

## MANUFACTURING CHALLENGES

- Manufacturing data is stored in different IT systems or on paper
- Increasing competition requires continuous cost and productivity efforts
- Increasing product complexity and need for traceability
- Issues are detected late in the process and recurring issues are not effectively prevented
- Accelerated development cycles and heavy product customization generates complex change management requests
- Collaboration between design office, manufacturing operations engineers and shop floor is not efficient enough

*Once real-life production begins, variability and non-conformance are facts of manufacturing life.*

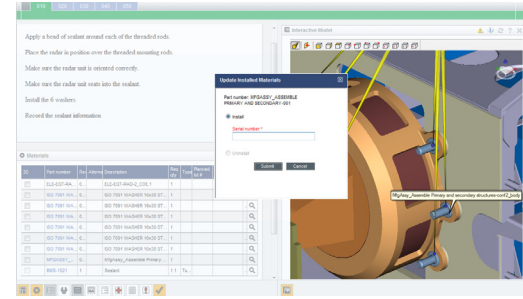
## SOLUTION

- Control global mission-critical operation in real-time by digitizing the shop floor to review current production status and make proper decisions about when and where to start each assembly job.
- Decrease cycle time and eliminate rework by maximizing workers' productivity with the right instructions at the right time. Enforce complete procedural control to ensure regulatory compliance and quality during build.
- Accelerate change order and non-conformance resolution with digital continuity between engineering and manufacturing. Quickly communicate engineering change orders to the shop floor and in return, inform engineers about the reality of the shop floor process variations, such as non-conformances.

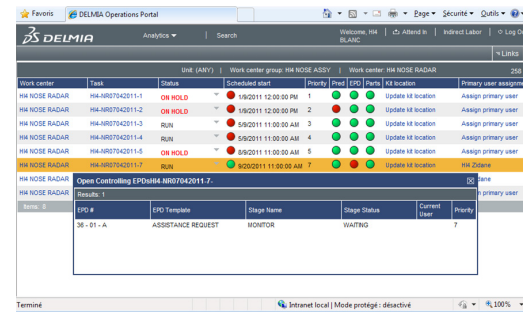
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Generate a 3D shop order for any given configuration of the product being built.



The process planner controls the resources that are assigned to process execution tasks.