

DS DELMIA V6R2013 – Fact Sheet

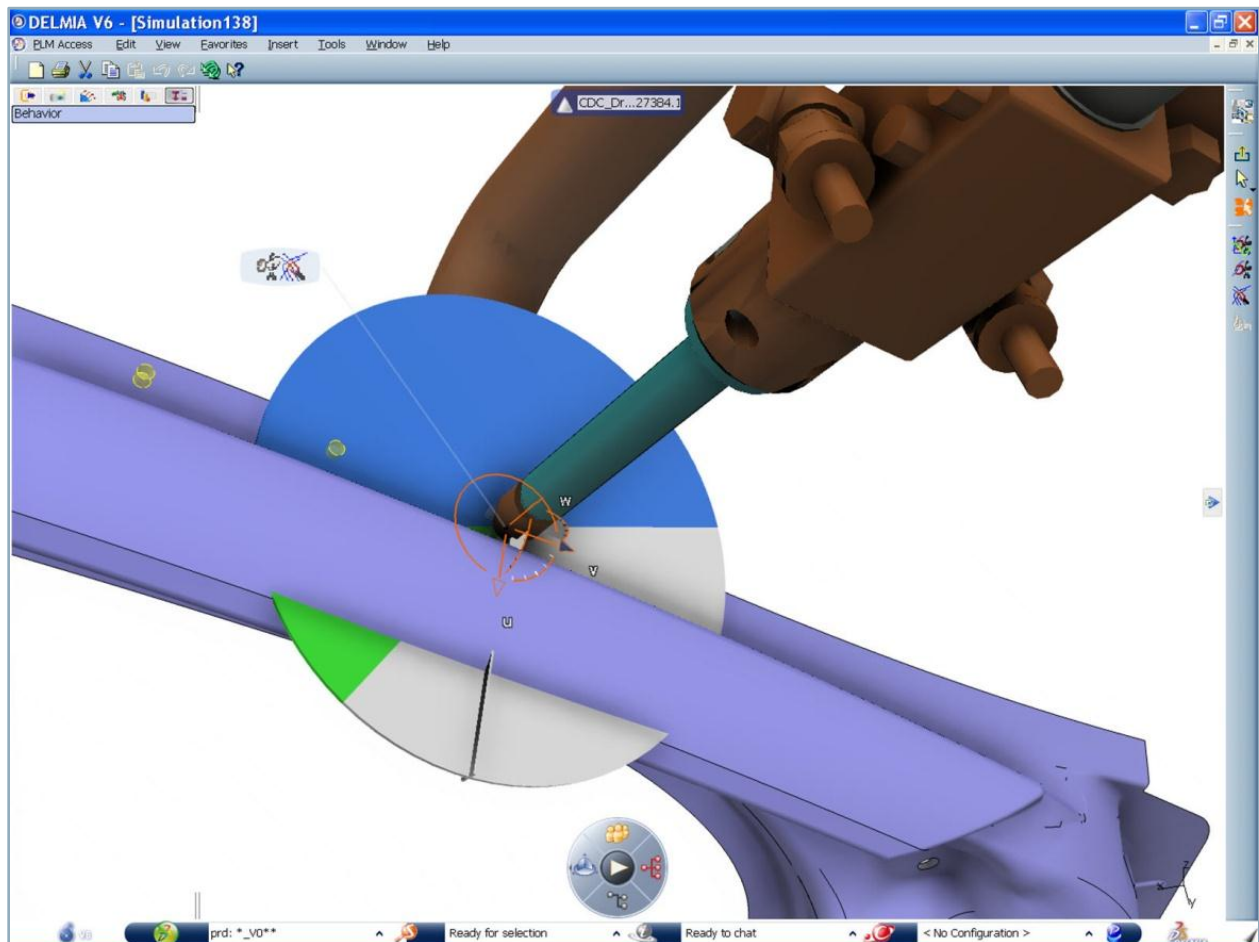
***3DEXPERIENCES of Global Production
Systems for all stakeholders in the extended
supply chain.***



3DEXPERIENCE

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DS V6R2013 Release

Dassault Systèmes made available Version 6 Release 2013 of its **3DEXPERIENCE** Platform. This release delivers enhancements for all of our **Social** and **Collaborative, Information Intelligence, Content** and **Simulation**, as well as **3D Modeling** apps. It continues to bring unique value for all industries served by Dassault Systèmes.

Users of **DELMIA V6R2013** benefit from a 3D collaborative innovation and production experience for all actors in the manufacturing lifecycle such as virtual process and system definition, workcell set-up, optimization, scheduling, and operation, to maintenance of real-time production systems. Below are the key highlights of the Version 6 Release 2013 release.

DELMIA V6R2013 ENHANCEMENTS QUICK VIEW

- **Added support for collaboration during Robotic Spot Welding Co-Reviews** – *Collaboration between robotics spot welding programmers and other stakeholders is supported with new functionality.*
- **In-Process-assembly support added** – *Generate In-Process manufacturing assemblies from planned operations or individual stages from within the manufacturing system.*
- **CAA Partners and customer customization supported through API development** – *Ten DELMIA V6 products support CAA Partner product development. Domains include robotics, ergonomics and machining.*
- **Expansion of PLM Express On Premise and On the Cloud Offerings** – *Robotic Virtual Commissioning (RVC) added to the DELMIA V6 PLM Express offering.*
- **Delivery of validated robot models** – *New Validated Robot Models deliver highly accurate cycle-time analysis capabilities independent from Realistic Robot Simulation (RRS) support.*
- **Finalized the development of advanced Hard-Material Machining strategies** – *Hard-Material strategies are extended to Spiral 3-axis and 5-axis tool path creation.*

DS DELMIA V6

V6 Virtual Manufacturing and Production for PLM 2.0

Global Collaborative Innovation...

V6 makes manufacturing and production information available to the dynamic communities of an extended enterprise. Powered by the DS V6 single platform, the right people in the global community have immediate access to people, teams, IP, and manufacturing assets thereby accelerating IP sharing and creation by expanding the knowledge network with collaborative communities.

Lifelike Experience...

Through its unique and revolutionary 3D Navigation of manufacturing data, V6 provides a natural 3D PLM environment for locating, viewing, and authoring manufacturing IP. Additionally, new and innovative PLM context-based 3D authoring tools provide a user friendly experience when authoring manufacturing IP. V6 provides a new experience in process planning where the planner is able to define an assembly process using a natural and intuitive approach within the 3D product environment.

Single PLM Platform for IP Management...

V6 effortlessly connects all PLM enterprise business process with a single platform accelerating IP creation through the pervasive proliferation of all engineering and manufacturing information and knowledge. A common UI experience for all applications fosters active participation of all stakeholders in product and lifecycle management. Context based decision making is enabled by automatic change propagation that is accessible by all communities in the PLM 2.0 environment.

On-Line Creation and Collaboration...

Today's demands on global manufacturing require the power of V6 in a mobile environment that enables you to connect, author, and collaborate to make optimum business decisions wherever you are through web-enabled authoring of manufacturing processes and real time collaboration with remote locations. V6 provides interactive web-based access to all production assets including plants, resources, processes, and best practices fostering innovation and collaboration with the global supply chains.

Ready to use PLM Business Processes...

Transform your manufacturing operations through ready-to-use industry specific PLM business processes that capture the value within each industry and provide the best and most tailored path for PLM 2.0 to drive innovation. Utilizing these PLM Business Processes, manufacturing becomes an integral part of program management using common IP, predefined industry-specific workflows, and best practices.

Lower Cost of Ownership - ROI Breakthrough...

Lower cost of ownership at both the IT and user levels is achieved when DS V6 is deployed. V6 delivers lower costs for an enterprise IT organization by reducing deployment time through simplicity of installation, maintenance, and management via a single server and database for all manufacturing and collaborative business processes. Additionally, the adoption of the V6 SOA architecture allows easy integration with existing systems, and modeling of business processes with no programming skills needed to support an adaptable business model. At the user level, an evolved user interface minimizes the training investment and time needed to achieve optimum levels of user productivity.

DELMIA V6R2013

Announcing added support for collaboration during Robotic Spot Welding Co-Reviews

DELMIA Robotics Spot Welding (RSW) now supports the display of Weld Study Analysis results, such as weld accessibility graph and weld report details during co-review sessions. This enhanced collaboration experience shortens the review and subsequent iteration time and supports the improvement of product and process quality.

In-Process Manufacturing Assembly support added

DELMIA Process Planning (PRP) now supports the generation of In-Process manufacturing assemblies resulting from planned operations and the individual stages within a manufacturing system. Manufacturing assembly creation and review increases the user's understanding of the process and manufacturing system flow and increases the productivity of the process planner.

CAA Partners and customer customization supported through API development

In V6R2013, DS DELMIA supports openness through the delivery of documented APIs that support CAA Partner development of V6 solutions in the robotics, ergonomics, and machining domains.

Expansion of PLM Express On-Premise and On the Cloud offerings

The **DS V6 PLM Express On-Premise and On the Cloud** offerings have been expanded with the addition of **DELMIA Robotics Virtual Commissioning (RVC)** for simulating native language robot programs. This offering extends new capabilities to the Robotics Engineer roles and expands the comprehensive yet affordable set of solutions available to small and medium enterprises.

Delivery of validated robot models

In this release, DELMIA is delivering the next generation of Validated Robot Models for selected ABB, FANUC, and KUKA robots. These validated models have highly accurate motion parameters that result in cycle-time analysis to within an unprecedented 7% margin of error using the default motion planner.

Finalized the development of advanced Hard-Material Machining strategies

V6R2013 finalizes the development of advanced hard-material machining strategies by extending these strategies to Spiral 3-axis and 5-axis tool path generation. These hard-material machining strategies have been validated in cooperation with machine tool vendors utilizing titanium workpieces, demonstrating time and tool wear savings while producing machined parts that meet the desired tolerance requirements.

Digital Manufacturing and Production Users

- ▶ **Modeling**
 - Supply Chain Planner
 - Supply Chain Planning encompasses the definition, management and execution of the company's total supply chain strategy including logistics and material management.
 - Process Planner
 - Evaluates, develops, improves and documents all manufacturing processes including estimating production times, optimizing staffing requirements, optimizing resource utilization and costs.

- ▶ **Simulation**
 - Industrial Engineer
 - Leverages computer simulation technologies and programs model engineering projects to evaluate the risks and benefits in a virtual environment.
 - Machine Programmer
 - Defines and validates the behavior of manufacturing resources such as programmable robots and CNC machines.

- ▶ **Operations**
 - Production Planner
 - Creates and maintains production schedules and resource allocation to ensure maximum production performance.
 - Quality Engineer
 - Ensures production quality standards are met as well as providing advice and counsel to internal business groups regarding regulatory issues.
 - Worker
 - Responsible for the creation, maintenance and repair of products and assemblies including actions such as machine setup, operation and maintenance.

- ▶ **Cross**
 - Manufacturing Management
 - supervises all activities from planning, scheduling, quality control, materials management, and production.