DELMIA

Digital Manufacturing Configuration Portfolio

DELMIA

Interactive Manufacturing Applications for the Digital Enterprise

The DELMIA portfolio is grouped into distinct domains within manufacturing to offer solutions to enable your entire digital factory. All DELMIA configurations support concurrent engineering from the conceptual phase of product and process design, through simulation and monitoring of manufacturing processes, to shop floor operations.

DELMIA Domains for Manufacturing:

Navigation and Collaboration delivers viewing and navigation access to the product, process and resource (PPR) data for design engineers and others throughout the enterprise, thereby providing a powerful communication and collaboration tool for viewing and sharing information, linking design, manufacturing, stakeholders and the non-technical community.

Process Planning provides a comprehensive process and resource planning support environment. The resulting process diagrams offer a clear overview of the sequences and links between processes and resources early in product design conception.

Manufacturing Review provides easy-to-use tools to enable product and tooling designers to review the impact of their designs in the same PPR environment that a production engineer identified an issue with the design and process. Quick access to the PPR manufacturing hub allows collaborative review of process scenes allowing fast resolution of design issues.

Process Detailing and Validation employs the structure and diagrams of the Process Planning solutions in the application specific disciplines of manufacturing. Verifies process methodologies with actual product geometry and defines processes to a greater level of detail within a 3D environment.

Resource Modeling and Simulation provides the tools to develop, perfect, and implement resources, application routines and mechanical programming that are integral to the Process Planning and Process Detailing & Validation solutions. Within this set of solutions, resources such as robots, tooling, fixtures, machinery, automation and ergonomics are defined and infused to create a complete scenario for manufacturing.

Human Factors for Manufacturing enhances the manufacturing environment with specific ergonomic tools to ensure that your latest technological innovations are being designed from the perspective of the people who actually build, maintain, install, and operate them. From a factory worker to an aircraft pilot—today's manufacturers must consider these Human Factors (HF) early in the product lifecycle.

Production Flow Simulation offers an environment for industrial engineers, manufacturing engineers, and management to develop and prove out best manufacturing flow practices throughout the production design process. Experiment with parameters such as facility layout, resource allocation, kaizen practices, and alternate scheduling scenarios.

Manufacturing Execution provides 3D digital enterprise communication and teamwork exchange tools to assist with production activity. Users can make product and process information created during the planning and design stages available to the shop floor worker, and offer this data in a visually intuitive, graphically intensive, easy-to-use format.

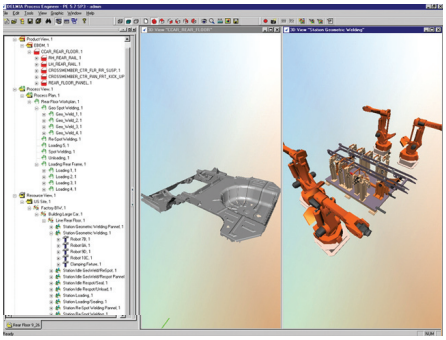
Automation allows control engineers and programmers to validate and debug PLC code for all devices from tooling, robots, clamps, safety devices, and electrical to hydraulics and pneumatics—within a virtual production environment, before integration of the actual equipment on the shop floor.

DELMIA Configuration Portfolio

Navigation & Collaboration

DELMIA PPR Navigator for Manufacturing (EPC)

DELMIA PPR Navigator for Manufacturing Configuration enables a user to access and administer the hub, allowing them to create, manipulate and navigate any item of information that is of significance within the context of integrated process engineering.



DELMIA PPR Navigator for Manufacturing (EPC)

DELMIA ENOVIA Manufacturing Hub Access (EAC)

DELMIA ENOVIA Manufacturing Hub Access Configuration allows DELMIA V5 clients to access the ENOVIA Manufacturing Hub (IPD Server).

DELMIA Process & Resource Definition (XP2)

DELMIA DPM Process & Resource Definition enables organizations to author process and resource data in the context of product data. It allows users to associate resources and products to processes, and to define and verify the sequence of processes in a full 3D environment. This configuration can be sold as a stand alone, file-based V5 solution or combined with other DELMIA file-based solutions for process planning, verification and simulation tools to create a client specific solution. It can also be combined with the manufacturing hub to create an integrated enterprise-wide client-specific solution. The file based solution can also be enhanced by adding DELMIA Multi-CAx products, providing integration with the customer's CAD design systems.

DELMIA Process & Resource Planner (ERC)

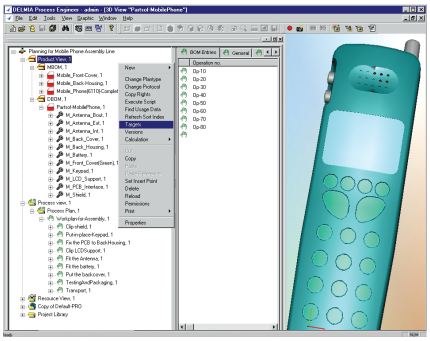
DELMIA Process & Resource Planner enables users to access and administrate the hub, enabling them to create, manipulate and navigate any item of information that is of significance within the context of integrated process engineering. It also allows users to efficiently and reliably determine the time required to perform a specific job sequence based on commonly used time measurement methods or company-proprietary time standards. Its intuitive user interface allows multiple users to work efficiently after only a brief familiarization period. It supports the step-by-step detailing and systematic preliminary planning of a manufacturing process based on the process graph and the manufacturing concept graph.

With capacity and cost analysis that can be activated at any time, the planner has an effective instrument for quickly and accurately determining the optimal manufacturing process for a new product from both a technical and economic standpoint, without any detours or guessing games. DELMIA Process and Resource Planner enables the creation, management and comparison of planning alternatives and variants in all phases of planning.

DELMIA Process Engineer (EEC)

DELMIA Process Engineer provides users with early recognition of process risks, re-use of proven processes, traceable changes and evidence of the decision making process, as well as access to process knowledge scattered across the

enterprise. This comprehensive treatment of the relationships between product, process and manufacturing resource data, that also includes layout, empowers users to avoid planning mistakes, paving the way for a precise overview of the entire process early in the planning stages. This clear-cut overview details investment costs, production space and manpower resources required.



DELMIA Process Engineer (EEC)

Since DELMIA Process Engineer supports multiple users and allows for collaborative planning, planning time is shortened. In addition, DELMIA Process Engineer organizes each project based on the unique structure of the product, processes, resources and plant layout involved. This solution customizes the user interface and reporting formats to meet individual requirements and promotes an identical planning environment for all projects, provides built-in documentation of planning history, and reflects any data change immediately across the entire project.

Manufacturing Review

DELMIA DPM Review (PR2)

DELMIA DPM Review provides tools for the design engineer to review product and process issues in the same context as they were first identified, saving time and easing communication between the production and design departments. Production engineers can easily create and annotate process scenes to detail production issues and automatically report the issue to the design department. Design and tooling engineers can click on the link provided which jumps to the target state of process simulation demonstrating the issue exactly as it was reported and annotated by the production engineer. This review capability speeds identification and communication of design and tooling issues from the production department to the design department and enables rapid response to production issues. The addition of the optional DELMIA Space Analysis provides process analysis tools including Clash, Measure Inertia, Sectioning, Distance and Band analysis, measure between, and measure item.

The addition of the optional DELMIA Human Review provides resource analysis including Data Readout for Devices, Human Analysis with window, coloring, and display.

Process Detailing and Validation

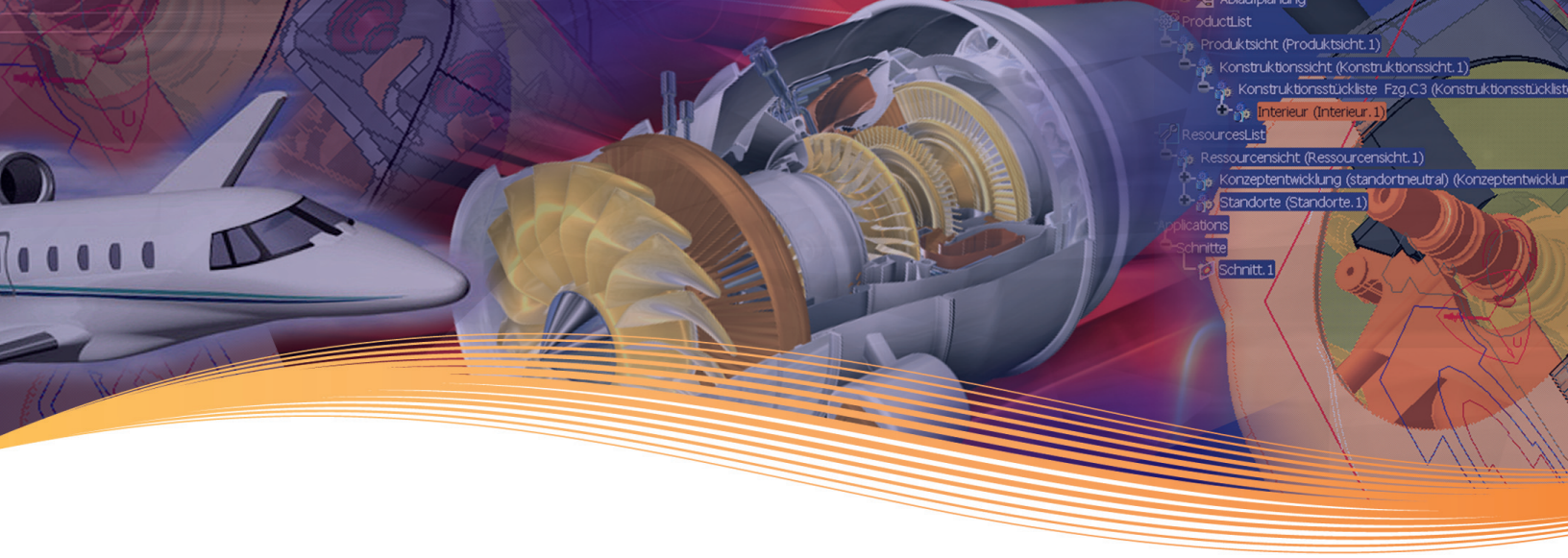
DELMIA DPM Assembly (AP2)

DELMIA DPM Assembly sets a new standard for assembly process planning and verification software for developing manufacturing and maintenance processes. DELMIA DPM Assembly leverages and contributes to the concurrent engineering capabilities of the PLM solutions, providing an end-to-end solution incorporating a single, unified interface for pre-planning, detail planning, and assembly process verification.

DELMIA DPM Assembly (AP2)

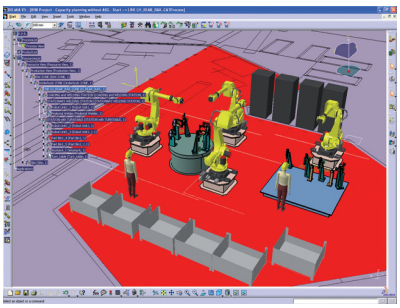
DELMIA DPM Envision Assembly (EA2)

DELMIA DPM Envision Assembly sets a new standard for end-to-end assembly process planning, detailing, resource



modification, mechanism creation, simulation, and verification software for developing manufacturing and maintenance processes.

DELMIA DPM Envision Assembly leverages and contributes to the concurrent engineering capabilities of the PLM solutions, providing an end-to-end solution incorporating a single, unified interface for pre-planning, detail planning, inverse kinematics application and assembly process verification.



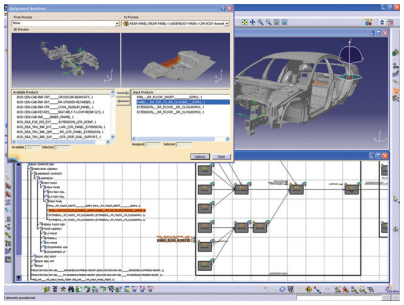
DELMIA DPM Envision Assembly (EA2)

DELMIA DPM Body–in–White (BP2)

DELMIA DPM Body–in–White (BP2) provides a scalable, collaborative, resource-centric solution that leverages the manufacturing hub for the process planning domain and allows engineers to create, modify, and design body in white assembly processes, including the design of body assembly processes, management of fasteners (such as spot welds), selection of resources and validation of the resulting process plan in an interactive 3D environment.

DELMIA DPM Body–in–White XT (BX2)

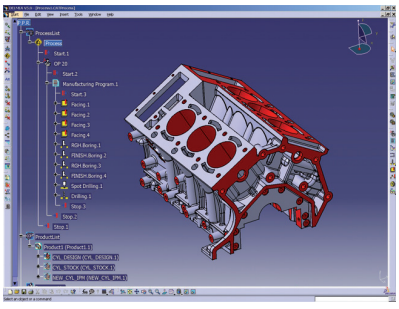
DELMIA DPM Body–in–White XT provides a scalable, collaborative, end-to-end capable, resource-centric solution that leverages the manufacturing hub for the process planning domain and allows engineers to plan body assembly processes, manage fasteners, perform resource planning, select resources, modify resources with CAD tools, complete assembly sequence and robot feasibility studies and validate the process plan in an interactive 3D environment.



DELMIA DPM Body–in–White XT 2 (BX2)

DELMIA DPM Machining (PP2)

DELMIA DPM Machining offers a powerful machining process planning solution for process planners and manufacturing engineers. DELMIA DPM Machining incorporates a single unified interface for reviewing the results of sequenced machining operations in the process plan, producing process sheets and generating NC programs. DELMIA DPM Machining offers the first truly collaborative environment for designing, planning, verifying, managing, and documenting machining processes within a single application framework. It is designed to seamlessly integrate product engineering and process planning through the manufacturing hub, thereby reducing the lead-time from concept to production. DELMIA DPM Machining addresses the needs of machining process planning and documentation for prismatic and turned parts.



DELMIA DPM Machining (PP2)

DELMIA Industrial Engineer (EIC)

DELMIA Industrial Engineer Configuration enables the user to access and administrate the hub, allowing them to create, manipulate and navigate any piece of information that is of significance within the context of integrated process engineering. It also allows users to efficiently and reliably determine the time required to perform a specific job sequence based on commonly used time measurement methods or company-proprietary time standards. Its intuitive user interface allows diverse groups of users to work efficiently after only a brief familiarization period.

DELMIA DPM Structure (DS2)

DELMIA DPM Structure is a powerful solution for process planning and lofting in the 3D environment. DELMIA DPM Structure takes the Manufacturing Bill of Materials (MBOM) output from DELMIA Assembly Process Planner as its input and allows users to complete the lofting job starting from automatic generation of lofting processes, creation of manufacturing features, creation of In-Process Models, and automated generation of workshop documents. Manufacturing data is then stored in the manufacturing hub to allow concurrent engineering and downstream re-use of the data.

DELMIA DPM Structure Manufacturing (SP2)

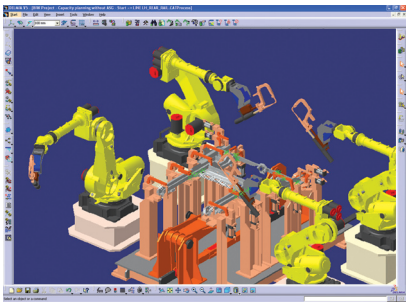
DELMIA DPM Structure Manufacturing delivers entry-level structure manufacturing and workshop document generation functions for lofting heavy structure parts directly from 3D design data in a 3D environment. This file-based solution can be used to generate an MBOM driven by the lofting process. Its powerful lofting capabilities, including the generation of manufacturing features and plate/profile flattening, along with its ability to generate workshop documentation, make this solution a powerful tool for the manufacture of heavy structure parts, such as those used in shipbuilding.

DELMIA DPM Structure Manufacturing offers a smooth introduction to the process modeling approach, preparing the path to full-scale digital manufacturing.

Resource Modeling & Simulation

DELMIA Robotics (WL2)

DELMIA Robotics is a powerful, integrated solution that enables manufacturing organizations to design, simulate, optimize and program robotic workcells in a 3D digital factory environment. It offers a scalable, flexible, easy to use solution for tooling definition, workcell layout, robot programming and workcell simulation. It is much more than a basic offline programming system. It can capture the underlying philosophy of intent of the robot programmer, allowing the company to capture and reuse best practices, leverage programming knowledge and automate the repetitive work of robot programming. It is ideally suited for work in the automotive body–in–white industry, particularly robot spot welding and material handling operations. It can also be extended for use in other domains.

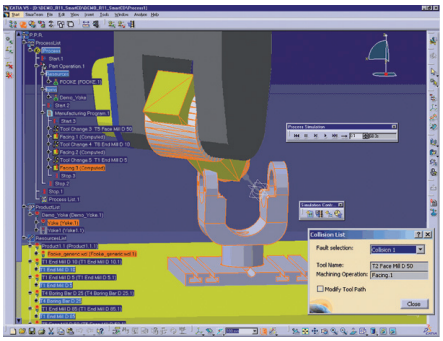


DELMIA Robotics (WL2)

DELMIA NC Machine Tool Path Simulation (VT2)

DELMIA NC Machine Tool Path Simulation enables NC programmers to verify, modify and validate tool paths and material removal based on tool paths or ISO code to eliminate potential machine tool collisions up front, during programming, thus reducing lead time. It provides a unique NC machining definition configuration that

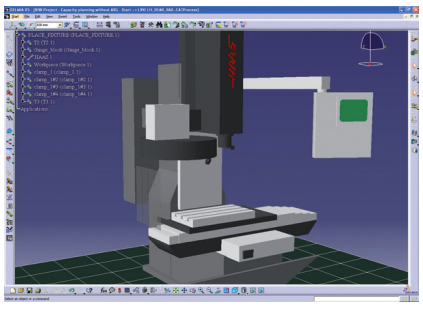
enables organizations to optimize machining operation definition. Through the integrated product environment, users have a seamless solution to address all their manufacturing environment needs. It easily validates the machining setup for selected machine tools and tool paths or ISO code upfront, during machining operation definition. An intuitive user interface enables the NC programmer to assign a complete machine to a part operation and to simulate selected tool paths or ISO code with the machine, determine interferences, and redirect the tool path before creating the NC program.



DELMIA NC Machine Tool Path Simulation (VT2)

DELMIA NC Machine Tool Builder (MB2)

DELMIA NC Machine Tool Builder easily models resources with kinematics, such as NC machines, tools, tool changers, pallet changers and other peripheral devices for use and reuse in the entire machining process. DELMIA NC Machine Tool Builder provides a comprehensive NC machine definition including geometry, kinematics, and controller and technological information. The unique resources created with DELMIA NC Machine Tool Builder may be saved to the manufacturing hub and used by process planners, inspection engineers, NC programmers and NC operators to create machining process plans, validate machining setups, detail machining operations, create simulations, validate and optimize tool paths, perform post processing and emulate controllers. The DELMIA NC Machine Tool Builder solution can also import NC machines created in DELMIA D5 VNC for use in V5 machining applications.



DELMIA NC Machine Tool Builder (MB2)

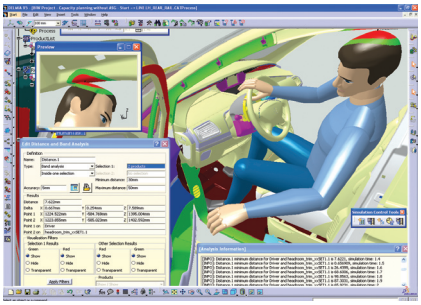
Human Factors for Manufacturing

Human Basic Activities Add-on Bundle (HBA)

DELMIA Human Basic Activities is an entry-level virtual ergonomics solution which provides an effective toolset to create and manipulate accurate standard digital humans and simulate task activities in the DELMIA simulation environment to analyze worker processes early in the manufacturing and assembly lifecycle.

The Human Basic Activities product bundle is geared toward:

- Quickly and intuitively introducing human models into process simulations
- Understanding how a worker will interact with a workcell
- Identifying the number of workers necessary to perform a task
- Reviewing the effect of design changes on the workforce
- Assigning time durations to tasks to be performed by workers



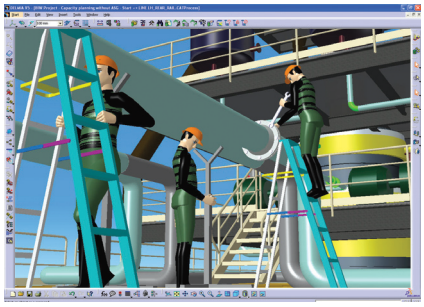
Human Basic Activities Add-on Bundle (HBA)

Human Modeling Complete Add-on Bundle (HBC)

Created as an advanced, fully-featured human modeling bundle, DELMIA Human Modeling Complete allows the user to create and manipulate advanced, user-defined digital humans in the DELMIA environment for human/product interaction and worker process analysis early in the product lifecycle. This allows users to create detailed customized manikins for an intended target audience, specifically analyze how the manikins will interact with objects in the virtual environment, and determine operator comfort and performance in the context of a new design.

The Human Modeling Complete Product Bundle is geared toward:

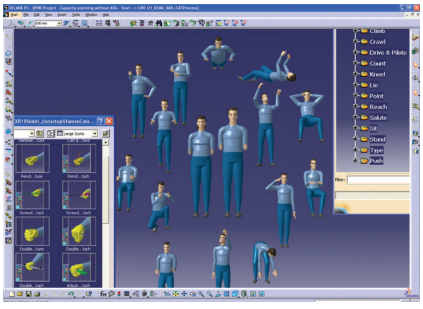
- Reducing the cost of Human Factors analysis by reducing/negating physical prototypes
- Completing advanced Human Factors analysis
- Providing confidence that the entire target population is being considered during accommodation analysis
- Providing a comprehensive set of task analysis tools
- Allowing predetermination of conformance to civilian and military Human Factors



Human Modeling Complete Add-on Bundle (HBC)

Human Catalogs

The optional DELMIA Human Catalogs provide predefined manikin information to improve ease of use of the digital human manikins saving time and creating a better user experience for both novice and experienced Virtual Ergonomics users. Catalogs for postures such as climbing, crawling/lying, sitting/standing, kneeling, reaching/pointing, and pushing; grasping postures linked to tool and equipment use; preferred angles related to comfort, safety and strength; anthropometry models to ease use of boundary manikins; and a human task animation catalog for common workplace movements all can ease the implementation of Virtual Ergonomics and speed simulation generation. The estimated time gain to generate a simulation using catalogs can be as high as 70%. DELMIA Human Catalogs effectively reduce time associated with manually generating simulations and increases the sharing and dissemination of consistent data between all relevant stakeholders in an organization.

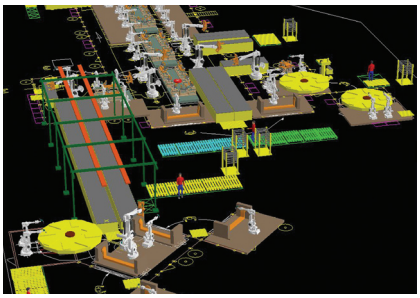


Human Catalogs

Production Flow Simulation

DELMIA QUEST

DELMIA QUEST is a complete 3D digital factory environment for process flow simulation and analysis, accuracy, and profitability. QUEST's flexible, object-based, discrete event simulation environment, combined with powerful visualization and robust import/export capabilities, makes it the engineering and management solution of choice for process flow simulation and analysis.



QUEST

Manufacturing Execution

DELMIA DPM Shop (SF2)

DELMIA DPM Shop is an interactive 3D product and process information resource tool to enhance your workers' performance. DELMIA DPM Shop uses visually intuitive, graphically intensive, easy-to-use engineering product and manufacturing process data and delivers work instructions directly to the shop floor to replace expensive, error-prone and hard-to-manage paper-based systems. Designed to be versatile, adaptable, and scalable to fit a broad range of production environments, DELMIA DPM Shop gives workers a simple, mouse-driven or touch-screen compatible interface to perform their work. It can be integrated with third party tools, such as MES systems or ERP, to access legacy data using standard interfaces, and can fully access data available within the manufacturing hub. It is always current and reflects the latest engineering and process changes.

DELMIA DPM Shop Order Release (SR2)

DELMIA Shop Order Release provides tools for the manual and automatic extraction of Shop Order Instance (SOI) information based on configurations for consumption by internal and external systems. It enables the release of a Shop Order package, including the as-planned process and 3D work instruction data for the requested configuration to production systems such as MES, in preparation for the production launch. DELMIA Shop Order Release also accepts work execution status from MES and updates the status of the as-planned data.

Automation

DELMIA Automation - Control Studio (LC1)

DELMIA Automation - Control Studio provides a complete set of tools to develop and validate controls logic programs independent of the hardware. Users create, use, and reuse predefined control logic blocks and modules to compose the program structure and IO management for components, devices, stations, or lines. Users may then quickly validate and debug the programs with simulation. The resulting program can also be downloaded to a targeted PLC through the optional PLC setup. With DELMIA Automation - Control Studio, controls engineers can start their pro-gramming work early in the development of the manufacturing process while reusing and sharing information through the common V5 environment with their electrical and mechanical counterparts.

DELMIA Automation – SmartDevice Builder (DB2)

DELMIA Automation - SmartDevice Builder provides tools to change your 3D CAD models (CATIA, Solidworks, UGS, ProE, Solidedge, and others) into actuators and sensors by defining kinematics/tasks, internal behavior, and electrical I/Os. The

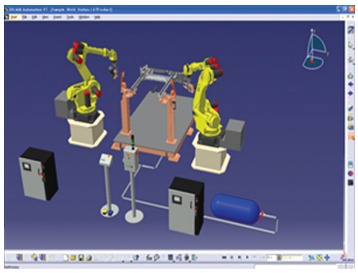
internal device behavior is programmed using the languages supported by LCM Studio making the device internal behavior definition easy for control engineers. The internal behavior can be used to create default and abnormal conditions to validate how a PLC program would react to such conditions. SmartDevices can also be assembled to build the complete virtual equipment with the complete set of I/Os. A smart device can be as simple as a single clamp that can be used in a cell layout, or as complex machine tool center or an entire manufacturing station or line complete with electrical IOs. Smart devices can be driven by an external controller such as a PLC (Programmable Logic Controller). SmartDevice Builder provides the tools necessary to create a reference library of SmartDevices for use by down-stream control engineers. Instances of these referenced devices can be used by control engineers to create, edit and validate control logic using DELMIA 3D simulation tools.

DELMIA Automation – Controlled System Simulator 2 Configuration (CS2)

Controlled System Simulator provides the tools to simulate, to debug, and to validate a complete Programmable Logic Controller (PLC) program against virtual equipment even before any real equipment is built. Controlled System Simulator allows the controls engineers to simulate, debug, and validate a PLC program on a virtual PLC or a real PLC early in the development of the manufacturing process.

DELMIA - Controlled Workcell Builder (CB2)

DELMIA - Controlled Workcell Builder combines control logic creation with robotic simulation to provide a powerful tool to integrate automation into the workcell design environment. To begin, Controlled Workcell Builder allows the user to create and maintain libraries of SmartDevices (devices that use controls logic), complete with their control logic. It allows the authoring of nominal behaviors and the establishment of I/O connections. Users can also create controlled workcells, controlled work stations, and even complete controlled lines to create and validate the controls logic. The creation of SmartDevice libraries allows reuse of the devices and the controls logic, reducing the time required to build virtual equipment.



DELMIA - Controlled Workcell Builder (CB2)

DELMIA - Controlled Workcell Validation (CW2)

DELMIA - Controlled Workcell Validation allows users to retrieve DELMIA Controlled Device Builder models and validate, analyze, and optimize the controls logic. It allows the user to connect a logic controller and validate and analyze control logic of the system through simulation.

CAA V5 Options

DELMIA DPM Path Planner (DPP)

DELMIA DPM Path Planner provides highly efficient path planning commands for automatic collision-free path planning to facilitate design and manufacturability studies resulting in time savings due to faster computation times and improved quality of the planned path. Searching and validating a trajectory is becoming increasingly time consuming in many engineering areas including automotive, aircraft, shipbuilding, and energy. DPM Path Planner's easy-to-use, automatic collision-free motion and path planning saves time in all industries. The product workbench provides highly efficient path planning commands for collision-free path planning to facilitate design, serviceability, and manufacturability studies resulting in time savings due to faster computation times and improved quality of the planned path.

DELMIA Robotics Path Planner (RPP)

Robotics Path Planner provides a highly efficient command for automatic collision-free path planning to facilitate robotic feasibility studies and off-line programming. The user gains time twice: due to fast automated computations the trajectory is easily and quickly defined and thanks to its optimized resulting trajectory, the robot task execution is improved. Fore-casting interference and accessibility issues in a complex manufacturing robot workcell during the early stages of robot off-line programming and task definition will prevent the project from costly bottlenecks later and reduce the risk of damage. Virtual Commissioning benefits from RPP automated collision-free trajectory generation. Cycle times are minimized by RPP by automatically optimizing new trajectories calculated to fit exactly each new project. Path of the tool center point frame for linear motion, or path in the configuration space for joint motion, is minimized with better cycle times than can be achieved by other methods. By applying RPP to DELMIA robot task motion activity, RPP creates collision-free, optimized DELMIA motion activity.

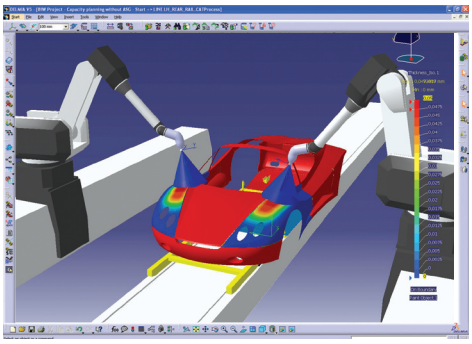
Realistic Cable Simulation

IC:IDO fleXengine for Realistic Cable Simulation provides a highly accurate, physically correct numerical simulation of flexible cables and hoses with circular cross-section for real-time interaction applications. Non-uniform material composition is supported including multi-core, shielded or isolated cables; braided or multi layered hoses. Collision detection and contact simulation are enabled, reproducing complex nonlinear behavior of cables/hoses in contact with arbitrary shaped rigid geometry. Arbitrary connections of cables between each other and with rigid geometry are supported. As a result, wiring harnesses with multiple branches can be modeled and tested in real time, allowing for digital mock-ups and enhanced product design.

Cables, wires and hoses play an essential role in the assembly of any industry product. To consider physical cable properties in the digital design phase of a product helps detecting design problems such as those caused by collisions with rigid parts and other compliant parts. It also helps to determine production requirements, such as cable length and the respectively allowed tolerance. This realistic flexible cable analysis significantly reduces the costs for real-life mock-ups.

Fastsurf

FASTSURF is an offline programming solution for with components for offline programming of industrial robots for spraying applications like painting. Apart from programming it also allows simulation and analysis of the spraying process to verify and optimize the process before using the robot path in production. Built on top of the DELMIA V5 Robotics technology, FastSurf provides the robotic programmer with a rich set of capabilities for creating, simulating, and validating robotic coatings paths and programs.



DELMIA Fastsurf

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