DELMIA V5.20 expands the production footprint of V5 digital manufacturing solutions

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At a glance

DELMIA V5.20 features:

- Major enhancement to DELMIA - Work Instruction Composer
- New NC milling operations
- Increased robotics process coverage
- Improved support for enterprise-wide deployments
- Three new products
  - DELMIA - Digital Product Rights Management 2 (MRM)
  - DELMIA - Flex Dynamic Cable Simulation 2 (FDS)
  - DELMIA - Extended Step Interface 2 (MXT)

Overview

**Major enhancements to DELMIA - Work Instruction Composer:** Enhancements in this release deliver a production-ready work instruction authoring solution for DELMIA - ENOVIA Manufacturing Hub users. Enhancements help to ensure changes made to manufacturing plans are synchronized with the manufacturing instructions issued to the production floor. Additionally, a new state management capability allows the Hub user to quickly visualize the product in the current state of assembly relative to the current state of manufacturing resources at that step in the process plan to aid in the quick creation of shop floor instructions for complex process plans.

**New NC milling operations:** V5.20 extends the rich V5 machining offering with new finishing and high-speed milling operations that can help reduce machining programming time, tool path execution time, and reduce tool wear. Three new high-speed milling operations deliver additional value to the rich V5 machining offering. These enhancements can help the machine shop both plan and produce faster with better quality and less cost from cutting tool wear.

**Increased robotics process coverage:** Several enhancements to the V5 Robotics solutions deliver advanced capabilities to the user community. These include the ability for robots to work in confined spaces and advanced line tracking capabilities for automotive painting applications.

**Improved support for enterprise-wide deployments:** Large-scale deployments by global companies drive key advancements in the DELMIA - ENOVIA Manufacturing Hub. V5.20 delivers multi-language attributes and enhancements to data security.
New products

- DELMIA - Digital Product Rights Management 2 (MRM) enables companies to control and protect their intellectual property (IP) when exchanging documents.
- DELMIA - Flex Dynamic Cable Simulation 2 (FDS) provides a highly accurate, physically correct, numerical simulation of flexible cables and hoses with circular cross-section for real-time interaction applications.
- DELMIA - Extended STEP Interface 2 (MXT) delivers new extended STEP capabilities for long-term archiving and corporate processes.

Key prerequisites

DELMIA V5.20 runs on selected versions of:

- Microsoft® Windows®
- IBM® AIX®
- Sun Solaris

Planned availability date

February 19, 2010

Description

DELMIA V5 brings together a set of digital manufacturing solutions targeted for industrial sectors in which continuing optimization is a determinant factor. These solutions allow manufacturers to bring their products to market more quickly, while reducing production costs and encouraging innovation.

DELMIA V5 digital manufacturing solutions assist industries where continuous transformation and optimization of manufacturing processes are critical. These include automotive, aerospace and defense, fabrication and assembly, electrical and electronic, consumer goods, and shipbuilding. The DELMIA V5 PLM(1) suite of computer-aided process planning and engineering solutions enables companies to achieve lean, build-to-order manufacturing by fostering a concurrent engineering environment. Coverage extends from the conceptual phase of product and process design, through simulation and monitoring of manufacturing processes, to shop floor operations, such as capacity planning, implementation and monitoring.

(1) Product Lifecycle Management

DELMIA V5 digital manufacturing solutions deliver many benefits, including:

- Comprehensive process planning in the early design phase
- Maximization of production efficiency and factory utilization
- Optimization of investment
- Ability to capture and reuse best practices and enterprise knowledge
- Ability to anticipate and correct potential problems in the design and manufacturing pipeline
- Derivation and carry-over of process engineering and production resources
- Reduction of time-to-market and manufacturing costs
- Reduction in the time required to start production and related costs
- Ability to improve time-to-volume
- Ability to foster innovation of products and processes
- Ability to gain maximum profitability
IBM has worked with thousands of manufacturers of all sizes around the world to implement solutions designed to enhance product development and streamline manufacturing processes.

- PLM solutions from IBM are the industry standard for OEMs, supply chain partners, and suppliers.
- IBM has over 31,000 PLM customers worldwide in a wide range of industries that include automotive, aerospace, industrial products, electronics, chemicals, and petroleum.
- IBM does not just install technology. We serve as a trusted advisor to provide the best-of-breed PLM applications, IT environment, integration capabilities, and business strategy to help you achieve your business objectives.
- IBM and Dassault Systemes have partnered for over 20 years to develop and deliver leading PLM solutions.
- IBM and Dassault Systemes have one of the largest PLM practices in the world with over 2,000 application engineers and consultants worldwide.
- Dassault Systemes, IBM, and our clients have teamed to implement Dassault Systemes and IBM technology to power digital manufacturing, resulting in significant return on investment (ROI) and improvements in manufacturing and engineering effectiveness.
- IBM Global Business Solutions also has a complete suite of services offerings around the DELMIA, CATIA, ENOVIA VPLM, and ENOVIA SmarTeam products, including consulting, planning, implementation, integration, training, support, and managed services.

**Accessibility by people with disabilities**

Owing to the graphics-intensive nature of its engineering design applications, this product has been granted a deviation.

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### Hardware and software support services

**SmoothStart/installation services**

IBM SmoothStart/Installation Services are not available for DELMIA V5 products.

**DELMIA V5 services plan**

PLM Services, part of IBM Global Business Services, offers a robust portfolio of services to assist with the implementation of DELMIA V5. Careful planning and implementation are essential to getting the most from DELMIA V5.

IBM can help with assessment, solution design, planning, installation, data migration, custom application development, best-practices consulting, user and administrative training, support, and project management.

For additional information on service offerings and how IBM professionals can assist with the implementation of DELMIA V5 in your environment, contact an IBM representative or IBM Services organization, or visit [http://www.ibm.com/software/plm/services](http://www.ibm.com/software/plm/services)

Under **Further information**, select **Find out more about IBM PLM services**.

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### Reference information

For information about ENOVIA VPLM V5.20, refer to Software Announcement LP10-0030, dated February 16, 2010.

For information about ENOVIA SmarTeam V5.20, refer to Software Announcement LP10-0016, dated February 16, 2010.

For information about CAA RADE V5.20, refer to Software Announcement LP10-0021, dated February 16, 2010.

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**5674-MTB** DELMIA - NC Machine Tool Builder 2
**5674-MTP** DELMIA - MultiCAx STEP Plug-in
**5674-MTR** DELMIA - DMU Dimensioning and Tolerancing Review 1
**5674-MTT** DELMIA - Machining Tolerancing Assistant 2
**5674-MVG** DELMIA - NC Manufacturing Verification 2
**5674-MXT** DELMIA - Extended STEP Interface 2
**5674-DLP** DELMIA - Robotics OLP 2
**5674-PCR** DELMIA - Process Context Builder 2
**5674-PDP** DELMIA - MultiCAx PD Plug-in
**5674-PLT** DELMIA - Plant Layout 2
**5674-PRL** DELMIA - Production System Analysis 2
**5674-PRP** DELMIA - DPM Process & Resource Definition 2
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**5674-SPR** DELMIA - Surface Path Generator 2
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**5674-UDP** DELMIA - MultiCAx UD Plug-in
**5674-WKI** DELMIA - DPM Workcell Instructions 2
**5674-WSQ** DELMIA - DPM Workcell Sequencing 2
**5674-WSU** DELMIA - Device Task Definition 2

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**Additional details**

This section describes the new products in this release.

**DELMIA - Flex Dynamic Cable Simulation 2 (5674-FDS)**

DELMIA - Flex Dynamic 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, and isolated cables and braided or multi-layered hoses. Collision detection and contact simulation are enabled, reproducing the 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. The ability consider physical cable properties in the digital design phase of a product helps in detecting design problems, such as those caused by collisions with rigid parts and other compliant parts. It also helps in determining production requirements, such as cable length and the respectively allowed tolerances. This realistic flexible cable analysis significantly reduces the costs for real-life mock-ups.

The behavior of a flexible object is described by the theory of elasticity in terms of several material constants; that is, Young's module and Poisson's ratio, or Lame coefficients, or Bending and torsional stiffness, and so on. These material properties are related to each other by equivalence formulas. In the case of composite structures, such as multilayered cables/hoses, corresponding effective constants can be either measured directly in experiments or computed using an additive formula. Additionally, required quantities are the length, external and internal diameters of the cable/hose/layer, volumetric mass density, as well as positions and orientations of the ends of the cable/hose. The theory of elasticity provides equations describing static and dynamical behavior of the flexible object under user interaction. Also, various approximate models are known to be valid in special restricted situations.

The robustness of the implemented scheme has been shown for a variety of realistic situations in interactive design environments. To guarantee the accuracy, the
cables, wiring harnesses, and hoses have been evaluated intensively. The results of the experimental validations show that shapes of wiring harnesses and hoses computed by DELMIA - Flex Dynamic Cable Simulation coincide at high accuracy with experimentally measured shapes.

DELMIA - Flex Dynamic Cable Simulation solves exact non-linear elastic equations at machine precision. Therefore the deviation between DELMIA - Dynamic Cable Simulation results and experiments was always on the level of one percent (because the experiments had been carried out with a one percent error). DELMIA - Flex Dynamic Cable Simulation is able to provide a solution for simulating cables and hoses combining physical precision and an update rate more than 80 fps on a P4 2GHz PC.

DELMIA - Flex Dynamic Cable Simulation:

- **Provides physically realistic cable simulation:** The simulation includes the cable properties of length, diameter, density, stiffness and other constraints such as gravity and end clamp locations.
- **Supports penetration avoidance between cable and obstacles:** The simulation can be setup by the user to specify the objects that the cable may not penetrate. Once this is done, the solver automatically accounts for the cable shape that corresponds to the realistic behaviors during simulation.
- **Allows integration with the DELMIA Electrical Harness Simulation product for assembly applications:** With DELMIA Flex Dynamic Cable Simulation installed and enabled, the DELMIA Electrical Harness Simulation application automatically includes physically realistic behavior of the cables to verify with fidelity the assembly and disassembly test simulations.
- **Allows integration with the DELMIA Device Task Definition product for robotic applications:** With DELMIA Flex Dynamic Cable Simulation installed and enabled, the DELMIA Device Task Definition application provides an additional toolbar for simulation of cables that are defined for dress up of robots and other manufacturing resources for validation of cable length, interference, and wrapping behaviors during robotic applications.
- **Supports the interactive jogging motion as well as task program simulation:** The physically realistic behavior of the cables is automatically enabled during interactive motion by users of the cable ends or obstacles as well as during the running of preprogrammed task simulations.
- **Fully compatible with cable models created in CATIA V5 design applications:** Cables designed in CATIA V5 applications, such as CATIA Electrical Harness Installation, are the starting point for DELMIA simulations based on the designed cable positions, lengths, diameters, and branches.

**DELMIA - Digital Product Rights Manager 1 (5674-MRM)**

Digital Product Rights Manager allows a company to control and protect its intellectual property (IP) when exchanging documents. Distributed supply chain organizations need a way to exchange data in a secure manner. It lets users apply and enforce digital rights on V5 documents, enabling them to secure and control distribution and exchanges. Digital Product Rights Manager:

- **Protects IP while sharing documents:** Digital Product Rights Manager provides users with an out-of-the-box solution to secure and control V5 data exchanges. It enables an administrator to define and apply a corporate IP policy to all users. The administrator can define a list of users and assign to them a list of rights and administer this information company-wide. If needed, the administrator can also let some users add and modify users and rights themselves. By enabling a highly secured file exchange environment, Digital Product Rights Manager provides companies with a powerful and efficient way to manage their IP.
- **Controls the online and offline document access and use:** Digital Product Rights Manager enables the protection of V5 PLM documents, including 3D XML, CATPart, CATProduct, CATDrawing and CGRs by setting up different rights to different users. Rights allow individual users to perform, or prevents them from performing, the following operations:
  - Open a file. Drag and drop is also protected by this right.
– Save a file. It ensures that the file will not be modified, for instance.
– Save as (and keep rights) by changing the name and file's path and keep the initial rights.
– Save as (and change rights) by changing the name and path of the file and change the initial rights.
– Export the data into another format, such as 3D XML.
– Copy, cut, and paste protected files.
– Duplicate specifications inside power copy and user-defined feature.
– Duplicate geometry in a product.
– Collaborate (for example, chat, view share, and so on) a protected file.
– Forward files to somebody else.

Users can access protected files both when they are online (that is, when connected to a server which manages the users and rights lists), and offline if they have decrypted the data before disconnecting from the server. A right's expiration date enables a time limit to be defined for access to the data. This protection is also extended to the cache that may have been created from protected data.

Digital Product Rights Manager supplies users with a comprehensive set of rights enabling the handling of both simple and more complex scenarios. It is completely integrated into the V5 architecture and is based on Microsoft Windows Rights Management Services (RMS) technology.

**DELMIA - Extended STEP Interface 2 (5672-MXT, 5674-MXT)**

DELMIA - Extended STEP Interface delivers new STEP capabilities for long-term archiving and corporate processes.

- **Nested assembly export:** Large assemblies can be exported in multiple STEP files, with one file for each product. There are two possible options, global and partial. Global generates STEP files for all levels of an assembly, while partial generates the STEP file for only one product (sub-levels are not exported).

- **Support of functional tolerancing annotations in STEP exchanges:** You can store a true copy of the CATIA - Functional Tolerancing & Annotation presentation in STEP format and retrieve it using WYSIWYG import-export.

- **Supports validation properties:**
  - A global parts and assembly level offers center of gravity, volume, and area.
  - A body level offers center of gravity and volume, with areas checked for each solid/surface.
  - New validation properties target part shape, such as faces and edges.

- **Additional functions**
  - Geometric dimensioning and tolerancing (GD&T)
  - Applicative data enabling, such as for composites
  - Clouds of points (COPS) properties checks for geometric faces and edges

**Technical information**

**Specified operating environment**

**Hardware requirements**

**Summary of DELMIA V5 recommended configurations**

- Oracle server - Any hardware and operating system platform as certified by Oracle
- Manufacturing Hub server
  - Hardware - Any certified server with a 64-bit CPU (Intel® EM64T)
  - Operating system - Microsoft Windows Server 2003 R2 SP2 (32-bit)
• DELMIA clients
  – Hardware - Any certified workstation with a 64-bit CPU (Intel EM64T)
  – Operating system
    Microsoft Windows XP Professional SP3 (32-bit)
    Microsoft Windows XP Professional x64 SP2 (64-bit)

Hardware requirements for DELMIA Process Detailing and Validation

The following requirements are common to all operating systems supported by this release. Platform-specific requirements are specified in subsequent topics.

• Required components and features
  – **Disk drive**: An internal or external disk drive (minimum recommended size is 80 GB) is required to store program executables, program data, the user environment, and to supply paging space. Installation of all DELMIA Process Detailing and Validation products requires 2.0 GB on Microsoft Windows, 2.4 GB on AIX, and 2.3 GB on Solaris.
  – **Memory**: 1024 MB of RAM is the minimum recommended for all applications. 2048 MB of RAM is recommended for large manufacturing models. Requirements may be greater when large amounts of data are used.
  – **Internal/external drives**: A CD-ROM drive is required for program installation and for access to the online documentation, which can optionally be downloaded to disk.
  – **Display**: A graphics color display compatible with the selected platform-specific graphics adapter. The minimum recommended size for usability reasons is 17 inches. Minimum resolution for Windows workstations is 1024 x 768 and 1280 x 1024 for UNIX® workstations. When selecting a graphics adapter, hardware texturing capability is strongly recommended when using products that employ texture mapping, in which case the amount of texture RAM has to be adequate for the number and complexity of textures to be used.
  – **Keyboard**: A specific keyboard compatible with the selected installation locale may be required for national language support.
  – **Pointing device**: Three-button mouse. On Microsoft Windows workstations, a two-button mouse may alternatively be used (the third button is emulated with a keyboard sequence). The three-button mouse is recommended for usability reasons. IntelliMouse (two buttons plus a wheel instead of the third button) is an alternative to the three-button mouse on Windows workstations. The wheel acts as the middle button to allow additional manipulations, such as panning and scrolling.

• Optional components and features: For Platform 2 (P2) products, SpaceBall or SpaceMouse, in addition to the standard mouse, can be used to perform graphic manipulations (zoom, pan, and rotate). The required drivers are delivered with these devices. Support of these devices is also available with the DMU Navigator 1 (5674-MDU) add-on product.

The robustness of the overall solution is dependent on the robustness of the operating system and the hardware environment used. Configurations certified by Dassault Systemes for running DELMIA V5 are published at

http://www.3ds.com/support/hardware-certification/overview/

Although DELMIA V5 products might run on configurations or with graphic adapters other than those specified for each of the following platforms, incidents specific to such configurations or adapters will not be accepted for support.

*Microsoft Windows XP 32-bit*

• **System unit**: An Intel Pentium® 4 or Xeon® based workstation running
• **Graphics adapter**: A graphics adapter with a 3D OpenGL accelerator is required.
Note: Graphics performance on local transformations (panning, zooming, and rotating model) will depend on the selected graphics adapter. The graphics adapter should have the following capabilities:
- 24 bits, true color, double buffered visual
- 24 bits, Z-buffer
- Stencil buffer
- Minimum supported resolution: 1024 x 768. A resolution of 1280 x 1024 is recommended for usability reasons.

- **Network adapter**: An active LAN adapter (Ethernet or Token Ring, installed and configured) is required for license key purposes.

**Microsoft Windows x86 64-bit**

- **System unit**: An Intel Xeon EM64T or AMD Opteron 64-bit based workstation running Microsoft Windows XP Professional x64 Edition.
- **Memory**: 4 GB is the recommended minimum.
- **Disk drive**: 40 GB is the recommended minimum.
- **Graphics adapter**: A graphics adapter with a 3D OpenGL accelerator is required.

Note: Graphics performance on local transformations (panning, zooming, rotating model) will depend on the selected graphics adapter. The graphics adapter should have the following capabilities:
- 24 bits, true color, double buffered visual.
- 24 bits, Z-buffer.
- Stencil buffer.
- Minimum supported resolution: 1024 x 768. A resolution of 1280 x 1024 is recommended for usability reasons.

- **Network adapter**: An active LAN adapter (Ethernet or Token Ring, installed and configured) is required for license key purposes.

**AIX**

Note: Any future release will not support IBM AIX.

- **System unit**: Any IBM workstation that is POWER® processor-based and which is supported on AIX V6.1.
- **Graphics adapter**: One of the following graphics adapters is required.
  - GXT4000P
  - GXT4500P
  - GXT6000P
  - GXT6500P

**Sun Solaris**

Note: The Sun Solaris platform will not be supported in any future release.

- **System unit**: Any Ultra1, Ultra2, Ultra10, Ultra30, Ultra60, Sun Blade 100, Sun Blade 150, Sun Blade 1000, Sun Blade 1500, Sun Blade 1500+ (1.5 GHz), Sun Blade 2000, or SunBlade 2500 workstation based on the UltraSPARC processor supported on Solaris 10.
- **Graphics adapter**: One of the following graphics adapters is required.
  - Creator3D
  - Creator3D Series III
  - Elite 3D (U10-440MHz only for U10 workstations)
  - Elite 3D Lite
  - Expert 3D
  - XVR-500
Hardware requirements for Manufacturing Hub Server

Any Microsoft Windows Server 2003 platform as certified by Microsoft.

Hardware requirements for DELMIA Process Planning clients

- **Processor**: Intel Pentium-4, minimum 2400 MHz.
- **Disk drive**: Minimum of 1024 MB; 2048 MB to install a client, server, and an Oracle server on the same machine.
- **Graphical interface**: 1024 x 768 OpenGL with a minimum of 32 MB onboard memory.
- **Network connection**: LAN (completely configured).
- **Communication protocol**: TCP/IP. The machine must have an IP address (either static or via DHCP)

Software requirements

Important notices

- DELMIA V5.20 does not support:
  - IBM AIX 5.3
  - Hewlett-Packard HP-UX
- Any future release will not support:
  - Sun Solaris
  - IBM AIX

Refer to the Program Directory or contact your IBM Support Center for appropriate corrective service to apply to the software described in the following text.

Software requirements for DELMIA Process Detailing and Validation

**Microsoft Windows XP 32-bit**

Microsoft Windows XP Professional SP3. Microsoft Windows XP 32-bit delivers an implementation of OpenGL libraries. Dassault Systemes provides recommendations related to driver levels based on certified configurations. These drivers may offer a DELMIA V5 application setting (see Control Panel, Display Properties tabs). These should be selected when available because they may contain application-specific features.

A localized version of the operating system may be required when the selected installation locale differs from Latin 1.

Orbix 3.3 is required on 32-bit operating systems.

For a list of certified configurations, visit

[http://www.3ds.com/support/hardware-certification/windows-certified-workstations/](http://www.3ds.com/support/hardware-certification/windows-certified-workstations/)

**Microsoft Windows Vista 32-bit**

Microsoft Windows Vista x32 Enterprise and Business Edition SP1. Starting with Windows Vista, IPv6 is installed and activated by default. However, a dual IPv4 and IPv6 layer is provided, and because V5 client-server communication does not support IPv6 in V5.20, it is recommended to deactivate IPv6 and use IPv4.
To deactivate IPv6, refer to the following Microsoft Technet article:

http://technet2.microsoft.com/windowsserver/en/library/cba5a7ac-742a-49a6-8212-3844c768a0f81033.mspx?mfr=true

See sections:

- To Uninstall IPv6 Using the Network Connections Folder
  or
- To Uninstall IPv6 from a Computer from the Command Prompt

Note that this operation requires administrator credentials.

For a list of certified configurations, visit

http://www.3ds.com/support/hardware-certification/windows-certified-workstations/

**Microsoft Windows XP 64-bit**

Microsoft Windows XP Professional x64 Edition SP2. Microsoft Windows XP Professional x64 Edition delivers an implementation of Open GL libraries. Dassault Systemes provides recommendations related to driver levels based on certified configurations. These drivers may offer a DELMIA V5 application settings (see Control Panel, Display Properties tabs), which should be selected when available, as they may contain application-specific features. When installing 32-bit applications, they will be able to allocate up to 4GB of memory when running on the 64-bit operating system.

**Note:** Memory consumption for a 64-bit process is completely different than for a 32-bit process. In this situation, it is not pertinent to compare the performance monitor virtual bytes counter between a 32- and 64-bit process. Although the 4 GB limitation of global address space make this counter important when tracking a 32-bit process, virtual address space for 64-bit process can go up to 8 TB.

For a list of certified configurations, visit

http://www.3ds.com/support/hardware-certification/windows-certified-workstations/

**Microsoft Windows Vista 64-bit**

Microsoft Windows Vista x64 Enterprise and Business Edition SP1. Starting with Windows Vista, IPv6 is installed and activated by default. However, a dual IPv4 and IPv6 layer is provided, and because V5 client-server communication does not support IPv6 in V5.20, it is recommended to deactivate IPv6 and use IPv4. To deactivate IPv6, refer to the following Microsoft Technet article:

http://technet2.microsoft.com/windowsserver/en/library/cba5a7ac-742a-49a6-8212-3844c768a0f81033.mspx?mfr=true

See sections:

- To Uninstall IPv6 Using the Network Connections Folder
  or
- To Uninstall IPv6 from a Computer from the Command Prompt

Note that this operation requires administrator credentials.

For a list of certified configurations, visit

http://www.3ds.com/support/hardware-certification/windows-certified-workstations/
IBM AIX 32-bit and 64-bit platforms

AIX 6.1 Technical Level 02 (using 64-bit kernel) with following components:

- XL C/C++ V10.1.0.0 Run-time Environment (part of AIX 6.1 TL02)
- XL Fortran V12.1.0.0 Run-Time Environment (part of AIX 6.1 TL02)
- OpenGL 1.3 as delivered on the AIX CDs

For a list of certified configurations, visit

http://www.3ds.com/support/hardware-certification/windows-certified-workstations/

Sun Solaris

Solaris 10 HW 03/05 (SPARC).

DELMIA Process Detailing and Validation general packaging principles

- A DELMIA P1 product or a DELMIA P1 configuration requires or must include (in the case of configurations) DELMIA - Object Manager 1 (DO1). P1 products can be used on P2, and in such cases, they operate with DELMIA - Object Manager 2 (DOM).
- A DELMIA P2 product or a DELMIA P2 configuration requires, or must include (in the case of configurations), DELMIA - Object Manager 2 (DOM).
- License keys for configurations are acquired and released for the total configuration.
- The functions within a configuration cannot be shared.
- A configuration is required for each DELMIA seat.
- DELMIA add-on and shareable products may require prerequisite products that are not included in a standard purchased configuration. When a prerequisite product is not included in the selected standard configuration, both the AOP and its prerequisite products must be purchased and included as AOPs within a custom configuration. Prerequisites for shareable products can be satisfied by a standard configuration, by an AOP within a custom configuration, or by a shareable product.

Macro replay capabilities

DELMIA has built-in macro record and replay capabilities. For UNIX, the interpreter is VB Script 3.0 from Mainsoft. Its components are included as shared libraries. For Microsoft Windows, the interpreter is Microsoft Visual Basic for Applications (VBA) at a minimum level of 6.0. VBA is delivered and installed by default with DELMIA Process Detailing and Validation.

Printer and plotter support

- UNIX - DELMIA Process Detailing and Validation supports the following plotter/printer languages:
  - CGM-ISO, ATA, CALS
  - Hewlett Packard HP-GL/2-RTL and HP-GL or IBM-GL subsets
  - OCE Graphics GPR50: VDF plotting routines
  - PostScript®
- Microsoft Windows - Printers and plotters are supported through the vendor's drivers for the targeted printer or plotter relative to the targeted version of the operating system. Contact the printer or plotter vendor for requirements and support.
Software requirements for DELMIA Process Planning

**ENOVIA Manufacturing Hub server**

The Manufacturing Hub server is certified on the following operating systems:


**DELMIA Process Planning clients**

Process Engineer clients are certified on the following operating systems:

- Microsoft Windows XP Professional Service Pack 3 (32-bit)
- Microsoft Windows XP Professional x64 Service Pack 2 (64-bit)
- Microsoft Windows Vista Service Pack 1 (32-bit)
- Microsoft Windows Vista Service Pack 1 (64-bit)

**Certified third-party software (Windows-based)**

- Oracle database - Oracle 11.1.06 or later is a prerequisite for the Manufacturing Hub server.
- Java™ is a prerequisite for:
  - The Manufacturing Hub server
  - Single Sign-On (SSO) on Process Planning clients
  - Manufacturing Hub integration and SSO on Process Detailing and Validation (32- and 64-bit)

  The required Java level is:

  -- For Windows 32-bit - Sun JRE Version 6.0 Update 14
  -- For Windows 64-bit - Sun JRE Version 6.0 Update 14 x64

- Microsoft Visual J# V2.0 and Microsoft .NET Framework 3.5 SP1 is a prerequisite for SSO and Web Services for the Manufacturing Hub, and for SSO on Process Planning and Process Detailing and Validation clients.
- FLEXlm Version 11.6.1 is a prerequisite for the licensing environment for the Manufacturing Hub server and Process Planning clients.
- Microsoft Internet Explorer 7 is a prerequisite for ErgoCheck on Process Planning clients and for documentation on Process Detailing and Validation clients (32- and 64-bit).

**Notes**

- For 64-bit SSO, only JRE is supported. For 32-bit SSO, either JRE or J# with .NET can be chosen.
- WebServices is required for Change Management with ENOVIA VPM V5 (LCA) Engineering Hub.
- For the Java Runtime Environment on Windows XP, the environment variable JAVA_HOME has to be set on the Process Planning server to establish communication between it and Process Planning clients.
- To obtain the .NET Framework 3.5 SP1 redistributable, go to http://www.microsoft.com/downloads
Database-related prerequisites

Oracle RDBMS Server Standard Edition or Enterprise Edition Version 11.1.0.6 or later is required to store data on the Manufacturing Hub server.

Access to product information

Product information is delivered with the product CDs in HTML format. An HTML browser is required to access this documentation. Online documentation may be installed and used only in the same supported operating environments as DELMIA Process Detailing and Validation.

- In a UNIX environment
  - For AIX - Mozilla 1.7
  - For Sun Solaris - Firefox 3.0
- In a Microsoft Windows environment, one of the following browsers is required:
  - Microsoft Internet Explorer 7.0
  - Firefox 3.0

In addition to a Java-enabled Web browser, the Java Plug-in at level 1.5 to search online documentation:

- For AIX, Java Runtime Environment version Java 1.5.0 SR6 can be downloaded from
- For Sun Solaris, Java Runtime Environment Version 6, Update 14 can be downloaded from
- For Microsoft Windows, Java plug-in Version 6 Update 14 can be downloaded from

Although access to the online documentation might work on other HTML browsers, incidents specific to browsers other than those specified are not eligible for support.

Prerequisites for the license management environment

Process Detailing and Validation

Process Detailing and Validation applications must have an active LAN card (Ethernet or token ring) and TCP/IP installed and properly configured, even in the case of nodelock keys, though for nodelock there is no need to have the workstations connected to the network. No additional license management software is required when accessing nodelock license keys.

IBM License Use Management (LUM) is required to serve concurrent license keys across a network. A LUM configuration file (i4ls.ini) is required on DELMIA Process Detailing and Validation clients to access concurrent license keys from these servers. Server and Nodelock license management mechanisms are available on all supported operating environments.

IBM LUM level V4.6.8.3 is the minimum level.

The latest release of IBM LUM V4, together with any applicable patches, can be downloaded at no charge from

http://www.ibm.com/software/awdtools/lum/support.html

Access to the downloads requires an IBM ID, which can be created at no cost when first requesting a download.
**Process Planning**

Process Planning applications require FLEXlm 11.6.1 on the Manufacturing Hub server and Process Planning clients.

FLEXlm technical information is provided at:

http://www.3ds.com/support/

**Planning information**

**Packaging**

<table>
<thead>
<tr>
<th>Deliverable</th>
<th>Form number</th>
</tr>
</thead>
<tbody>
<tr>
<td>DELMIA Process Detailing and Validation</td>
<td></td>
</tr>
<tr>
<td>code and program directory (13 CDs)</td>
<td>LCD4-7892</td>
</tr>
<tr>
<td>English documentation (two CDs)</td>
<td>SK4T-3605</td>
</tr>
<tr>
<td>Registration Memorandum</td>
<td>GI11-4404</td>
</tr>
<tr>
<td>DELMIA Process Planning</td>
<td></td>
</tr>
<tr>
<td>Code, program directory, and English and German documentation (three CDs)</td>
<td>LCD7-2698</td>
</tr>
<tr>
<td>Registration Memorandum</td>
<td>GI11-6441</td>
</tr>
<tr>
<td>DELMIA MULTICAX code and program directory</td>
<td></td>
</tr>
<tr>
<td>(six CDs)</td>
<td>LCD4-7893*</td>
</tr>
<tr>
<td>LUM 4.6.8 with patch 4.6.8.3 (1 CD)</td>
<td>LCD4-7885</td>
</tr>
<tr>
<td>Licensed Program Specification</td>
<td>GI11-6422</td>
</tr>
</tbody>
</table>

* Ships only with an order for one or more of the MULTICAX products.

**Security, auditability, and control**

The announced programs use the security and auditability features of the operating systems software. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

**Ordering information**

**Current licensees**

Current licensees will receive instructions on how to order these products.

Should you require further assistance, contact your country IBM representative.

**New licensees**

Orders for new licenses will be accepted now. For new licensees, shipment will begin on the planned availability date. Orders accepted after the planned availability date will be assigned a schedule date for the week following order entry. Should you require assistance, contact your country IBM representative.

An order for DELMIA V5 basic licensed programs consists of:

- A licensed standard configuration program order (5671-XXX or 5672-XXX)
- A licensed custom configuration (5672-XXX) with add-on products (AOPs) (5674-XXX)
• Optional licensed shareable product program order (5671-XXX or 5672-XXX)
• One system program order (SPO), 5628-DEL

The 5671-XXX, 5672-XXX, and 5674-XXX orders are required for billing and asset registration. The 5628-DEL orders are required to ship machine-readable materials and publications.

Release summary

New products

<table>
<thead>
<tr>
<th>Program number</th>
<th>Program name</th>
</tr>
</thead>
<tbody>
<tr>
<td>5672-MXT</td>
<td>DELMIA - Extended STEP Interface 2</td>
</tr>
<tr>
<td>5674-FDS</td>
<td>DELMIA - Flex Dynamic Cable Simulation 2</td>
</tr>
<tr>
<td>5674-MRM</td>
<td>DELMIA - Digital Product Rights Manager 1</td>
</tr>
<tr>
<td>5674-MXT</td>
<td>DELMIA - Extended STEP Interface 2</td>
</tr>
</tbody>
</table>

Previously announced add-on products (AOPs) now available as shareable products

<table>
<thead>
<tr>
<th>Program number</th>
<th>Program name</th>
</tr>
</thead>
<tbody>
<tr>
<td>5672-OLP</td>
<td>DELMIA - Robotics OLP 2</td>
</tr>
<tr>
<td>5672-RRS</td>
<td>DELMIA - RRS I 2</td>
</tr>
<tr>
<td>5672-RST</td>
<td>DELMIA - RRS II 2</td>
</tr>
</tbody>
</table>

Other changes

Previously, the following products were available only as products included in a configuration. They are now available as indicated.

<table>
<thead>
<tr>
<th>Program number</th>
<th>Program name</th>
</tr>
</thead>
<tbody>
<tr>
<td>5672-MTB</td>
<td>DELMIA - NC Machine Tool Builder 2</td>
</tr>
<tr>
<td>5674-MTB</td>
<td>DELMIA - NC Machine Tool Builder 2</td>
</tr>
<tr>
<td>5674-PRP</td>
<td>DELMIA - DPM Process &amp; Resource Definition 2</td>
</tr>
</tbody>
</table>

Product ordering using legacy systems

To order a standard configuration or shareable product, specify the:
• Configuration/shareable product program number
• Appropriate charge option (PLC and RLC)
• The user quantity

Note: The configurator will automatically add to your order:
• The appropriate billing feature numbers
• The appropriate SPO information

To order a custom configuration, specify:
• The standard configuration program feature number
• The appropriate charge option (PLC and RLC)
• The user quantity
• The AOPs (applies to Process Detailing and Validation only)

Note: The configurator will automatically add to your order:
• The AOP indicator codes and AOP PIDs (applies to Process Detailing and Validation only)
• The appropriate billing feature numbers
- The appropriate SPO information

**New DELMIA V5 shareable products**

<table>
<thead>
<tr>
<th>Charge option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>5672-MTB DELMIA - NC Machine Tool Builder 2</strong></td>
<td></td>
</tr>
<tr>
<td>PLC</td>
<td>MTB Prod</td>
</tr>
<tr>
<td>RLC User 1-9</td>
<td>MTB Prod</td>
</tr>
<tr>
<td>RLC User 10-25</td>
<td>MTB Prod</td>
</tr>
<tr>
<td>RLC User 26+</td>
<td>MTB Prod</td>
</tr>
<tr>
<td><strong>5672-MXT DELMIA - Extended STEP Interface 2</strong></td>
<td></td>
</tr>
<tr>
<td>PLC</td>
<td>MXT Prod</td>
</tr>
<tr>
<td>RLC User 1-9</td>
<td>MXT Prod</td>
</tr>
<tr>
<td>RLC User 10-25</td>
<td>MXT Prod</td>
</tr>
<tr>
<td>RLC User 26+</td>
<td>MXT Prod</td>
</tr>
<tr>
<td><strong>5672-OLP DELMIA - Robotics OLP 2</strong></td>
<td></td>
</tr>
<tr>
<td>PLC</td>
<td>OLP Prod</td>
</tr>
<tr>
<td>RLC User 1-9</td>
<td>OLP Prod</td>
</tr>
<tr>
<td>RLC User 10-25</td>
<td>OLP Prod</td>
</tr>
<tr>
<td>RLC User 26+</td>
<td>OLP Prod</td>
</tr>
<tr>
<td><strong>5672-RRS DELMIA - RRS I 2</strong></td>
<td></td>
</tr>
<tr>
<td>PLC</td>
<td>RRS Prod</td>
</tr>
<tr>
<td>RLC User 1-9</td>
<td>RRS Prod</td>
</tr>
<tr>
<td>RLC User 10-25</td>
<td>RRS Prod</td>
</tr>
<tr>
<td>RLC User 26+</td>
<td>RRS Prod</td>
</tr>
<tr>
<td><strong>5672-RST DELMIA RRS II 2</strong></td>
<td></td>
</tr>
<tr>
<td>PLC</td>
<td>RST Prod</td>
</tr>
<tr>
<td>RLC User 1-9</td>
<td>RST Prod</td>
</tr>
<tr>
<td>RLC User 10-25</td>
<td>RST Prod</td>
</tr>
<tr>
<td>RLC User 26+</td>
<td>RST Prod</td>
</tr>
<tr>
<td><strong>New DELMIA V5 AOPs</strong></td>
<td></td>
</tr>
<tr>
<td><strong>5674-FDS DELMIA - Flex Dynamic Cable Simulation 2</strong></td>
<td></td>
</tr>
<tr>
<td>PLC</td>
<td>FDS AOP</td>
</tr>
<tr>
<td>RLC User 1-9</td>
<td>FDS AOP</td>
</tr>
<tr>
<td>RLC User 10-25</td>
<td>FDS AOP</td>
</tr>
<tr>
<td>RLC User 26+</td>
<td>FDS AOP</td>
</tr>
<tr>
<td><strong>5674-MRM DELMIA - Digital Product Rights Manager 1</strong></td>
<td></td>
</tr>
<tr>
<td>PLC</td>
<td>MRM AOP</td>
</tr>
<tr>
<td>RLC User 1-9</td>
<td>MRM AOP</td>
</tr>
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<td>RLC User 10-25</td>
<td>MRM AOP</td>
</tr>
<tr>
<td>RLC User 26+</td>
<td>MRM AOP</td>
</tr>
</tbody>
</table>
5674-MTB DELMIA - NC Machine Tool Builder 2

PLC MTB AOP
RLC User 1-9 MTB AOP
RLC User 10-25 MTB AOP
RLC User 26+ MTB AOP

5674-MXT DELMIA - Extended STEP Interface 2

PLC MXT AOP
RLC User 1-9 MXT AOP
RLC User 10-25 MXT AOP
RLC User 26+ MXT AOP

5674-PRP DELMIA - DPM Process & Resource Definition 2

PLC PRP AOP
RLC User 1-9 PRP AOP
RLC User 10-25 PRP AOP
RLC User 26+ PRP AOP

Non-billable AOP indicator codes

5672-AP2 DELMIA - DPM Assembly 2 Configuration

5674-FDS AOP Indicator Code
5674-MRM AOP Indicator Code
5674-MTB AOP Indicator Code
5674-MXT AOP Indicator Code

5672-BP2 DELMIA - DPM Body In White 2 Configuration

5674-FDS AOP Indicator Code
5674-MRM AOP Indicator Code
5674-MTB AOP Indicator Code
5674-MXT AOP Indicator Code

5672-BX2 DELMIA - DPM Body In White XT 2 Configuration

5674-FDS AOP Indicator Code
5674-MRM AOP Indicator Code
5674-MTB AOP Indicator Code
5674-MXT AOP Indicator Code

5672-CB2 DELMIA - Controlled Workcell Builder 2 Configuration

5674-FDS AOP Indicator Code
5674-MRM AOP Indicator Code
5674-MTB AOP Indicator Code
5674-MXT AOP Indicator Code
5674-RST AOP Indicator Code

5672-CW2 DELMIA - Controlled Workcell Validation 2 Configuration

5674-FDS AOP Indicator Code
5674-MRM AOP Indicator Code
5674-MTB AOP Indicator Code
5674-MXT AOP Indicator Code

5672-DS2 DELMIA - DPM Structure 2 Configuration

5674-MRM AOP Indicator Code
5674-MTB AOP Indicator Code
5674-MXT AOP Indicator Code

**5672-EA2 DELMIA - ENVISION Assembly 2 Configuration**

5674-FDS AOP Indicator Code
5674-MRM AOP Indicator Code
5674-MTB AOP Indicator Code
5674-MXT AOP Indicator Code

**5672-FP2 DELMIA - Robotics Paint Foundation 2 Configuration**

5674-FDS AOP Indicator Code
5674-MRM AOP Indicator Code
5674-MTB AOP Indicator Code
5674-MXT AOP Indicator Code

**5672-MB2 DELMIA - NC Machine Tool Builder 2 Configuration**

5674-MRM AOP Indicator Code
5674-MXT AOP Indicator Code
5674-PRP AOP Indicator Code

**5672-MF2 DELMIA - Manufacturing Simulation Foundation 2 Configuration**

5674-FDS AOP Indicator Code
5674-MRM AOP Indicator Code
5674-MTB AOP Indicator Code
5674-MXT AOP Indicator Code

**5672-MP2 DELMIA - Machining Foundation 2 Configuration**

5674-FDS AOP Indicator Code
5674-MRM AOP Indicator Code
5674-MTB AOP Indicator Code
5674-MXT AOP Indicator Code

**5672-PD2 DELMIA - DPM Process Definition 2 Configuration**

5674-MRM AOP Indicator Code
5674-MTB AOP Indicator Code
5674-MXT AOP Indicator Code
5674-PRP AOP Indicator Code

**5672-PP2 DELMIA - DPM Machining 2 Configuration**

5674-FDS AOP Indicator Code
5674-MRM AOP Indicator Code
5674-MTB AOP Indicator Code
5674-MXT AOP Indicator Code

**5672-PR2 DELMIA - DPM Review 2 Configuration**

5674-FDS AOP Indicator Code
5674-MRM AOP Indicator Code
5674-MTB AOP Indicator Code
5674-MXT AOP Indicator Code
5674-PRP AOP Indicator Code

**5672-SF2 DELMIA - DPM Shop 2 Configuration**

5674-FDS AOP Indicator Code
5674-MRM AOP Indicator Code
5674-MTB AOP Indicator Code
**IBM Latin America Software Announcement**

**LP10-0029**

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**5672-SP2 DELMIA - Structure Manufacturing Preparation 2 Configuration**

5674-MRT AOP Indicator Code  
5674-MRP AOP Indicator Code  
5674-MX T AOP Indicator Code  
5674-PRP AOP Indicator Code

**5672-SR2 DELMIA - Shop Order Release 2 Configuration**

5674-FDS AOP Indicator Code  
5674-MRT AOP Indicator Code  
5674-MRP AOP Indicator Code  
5674-MX T AOP Indicator Code  
5674-PRP AOP Indicator Code

**5672-VT2 DELMIA - NC Machine Tool Simulation 2 Configuration**

5674-FDS AOP Indicator Code  
5674-MRT AOP Indicator Code  
5674-MRP AOP Indicator Code  
5674-MX T AOP Indicator Code  
5674-PRP AOP Indicator Code

**5672-WL2 DELMIA - Robotics Simulation 2 Configuration**

5674-FDS AOP Indicator Code  
5674-MRT AOP Indicator Code  
5674-MRP AOP Indicator Code  
5674-MX T AOP Indicator Code  
5674-PRP AOP Indicator Code

**5672-XP2 DELMIA - DPM Process & Resource Definition 2 Configuration**

5674-MRT AOP Indicator Code  
5674-MRP AOP Indicator Code  
5674-MX T AOP Indicator Code

---

**Basic machine-readable material**

**System program order (5628-DEL) for legacy systems**

DELMIA V5 programs for all platforms (UNIX and Microsoft Windows) are shipped under the 5628-DEL system program order (SPO). The SPO is required for all program shipments and future updates.

Initial orders placed for a program type 5671 or 5672 without a corresponding order or MES for the 5628-DEL SPO will either fail order validation, or will not generate a media shipment. Each customer number must have its own SPO.

There are no new program function codes in this release.

**Media feature number**

<table>
<thead>
<tr>
<th>Environment</th>
<th>Feature number</th>
<th>Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>All platforms</td>
<td>3410</td>
<td>CD-ROM</td>
</tr>
</tbody>
</table>

---

IBM Latin America Software Announcement  
LP10-0029
**Initial orders**

When ordering the first 5671 or 5672 configuration for DELMIA, an order must also be placed for the 5628-DEL SPO. Both the 5671 or 5672 program order and the SPO must be for the same CPU system type/system number and must have the same scheduled shipment date.

**Subsequent orders**

The SPO must have a function code for every DELMIA V5 configuration that is installed or on-order. Therefore, when a configuration that was not previously installed is ordered, the SPO must be updated.

- To update an on-order system: When a license for a new 5671 or 5672 program is ordered for an on-order system, the 5628-DEL SPO must be updated to reflect the function code of the licensed program desired. Also, for asset registration and billing purposes an order for the individual licensed program type 5671 or 5672 is required.
- To update an installed system: When a license for a new 5671 or 5672 program is ordered for an installed system, the 5628-DEL SPO must be updated to reflect the function code of the licensed program desired.

One English softcopy collection kit is included in each base shipment.

- France
- Germany
- Ireland
- Italy
- Portugal
- South Africa
- Spain
- United Kingdom

Customers of record can order one additional copy using the previously announced product ID and function code.

Additional kits can be purchased through the IBM Publication Ordering System at the following Web site using the following order number.

```
http://www.ibm.com/shop/publications/order
```

<table>
<thead>
<tr>
<th>Description</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>DELMIA V5 Softcopy Collection Kit</td>
<td>SK4T-3605</td>
</tr>
</tbody>
</table>

**Terms and conditions**

The programs in this announcement are licensed as indicated in the IBM Offerings Simplification Announcement (LR89-0089).

**Agreement**

IBM Customer Agreement

**Designated machine**

Not required

**Variable charges apply**
Location license applies
No

Use limitation applies
Yes, as implemented by the license management models described.

License management for DELMIA Process Detailing and Validation

DELMIA V5 controls the number of concurrent users of a configuration or product, according to the number of license keys acquired for the configuration or product.

DELMIA V5 delivers identical license management mechanisms on UNIX and Windows environments, based on IBM License Use Management (LUM). The following license management principles apply:

- A DELMIA Process Detailing and Validation configuration (standard or custom) will require a license key. License keys for configurations are acquired and released for the total configuration. The products within a configuration cannot be shared.
- Each shareable product will require a license key, in addition to one for the prerequisite configuration and any prerequisite product, if applicable.
- In all cases, configuration license keys are acquired at the beginning of the process and are released at its termination.
- Add-on (AOP) and shareable products may require license keys for prerequisite products that are not already included in a standard configuration. Prerequisites for shareable products can be satisfied by a standard configuration, by an AOP within a custom configuration, or by a shareable product. However, because all add-on products are defined within one custom license key, any AOP prerequisites must be satisfied by either a standard configuration or by other AOPs purchased and defined within the same custom configuration.
- LUM keys must be renewed, typically every two years. The actual duration will depend on the order details.

DELMIA Process Detailing and Validation can be used in three license management modes: nodelock, with concurrent usage of license keys on a network, or concurrent offline license management.

Nodelock usage: The use of a local display is mandatory for usage in nodelock mode. There is no limit to the number of processes launched for a given license key (configuration or product). For instance, a user can launch the following simultaneous processes:

- An interactive session
- A process executed through an OLE container application
- Replay of macros recorded from captured sequences of user interactions

In the nodelock mode of operation, only one license key per configuration and shareable product can be registered per machine, and only one user can run at a time on that machine. If multiple license keys per configuration or shareable product, or multiple users on a single machine, are required, refer to the Concurrent usage section.

Concurrent usage: A user on one machine on one display uses one license key per configuration or shareable product used, regardless of the number of processes. If the display changes, then an additional license key is taken for the corresponding process.

Dynamic license management: Shareable product license keys can be acquired and released during the session. (The ability to acquire and release licenses is not available for configurations.) Shareable license keys acquired at the beginning of the session cannot be released before the end of the session; only license keys
dynamically granted upon user request during the session can be released during the session.

**Concurrent offline license management:** A concurrent license key control technique is available via the LUM server. It gives applications running on a Windows laptop the ability to disconnect from the license key server for a specific period of time.

During the checkout period, the server license key is unavailable for use by another concurrent user. This feature is designed to add additional flexibility to a user’s work environment. It is offered to accommodate short-term travel needs and collaboration while away from a fixed office environment or server connection. All ICA terms and conditions, including cross-border licensing terms, are unchanged, and users will check-out and check-in license keys at their home server, where rules and procedures are controlled by LUM.

**License management for DELMIA Process Planning**

Process Planning applications require FlexLM 11.6.1 on the Manufacturing Hub server and Process Planning clients for license management purposes. FlexLM supports three licensing methods:

- **License file:** A license file is supplied for each server and client based on the customer order.
- **License server:** The license server runs an NT-Service that manages a central license file for all servers and clients.
- **Temporary license:** The install process provides an option to create a temporary 30-day license. The license file is created after entering a license code.

**Educational allowance available**

The standard educational allowance does not apply to DELMIA.

**Volume orders**

Contact your IBM representative.

**Warranty applies**

Yes

**Licensed program materials availability**

<table>
<thead>
<tr>
<th>Restricted Materials of IBM:</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Restricted Source Materials:</td>
<td>None</td>
</tr>
<tr>
<td>Object Code Only (OCO):</td>
<td>All</td>
</tr>
</tbody>
</table>

**Program Services**

Program Services offer a method of reporting code-related problems for DELMIA licensed software products. Program Services are available electronically using the problem submission process at the PLM Technical Support Web site

http://www.ibm.com/software/applications/plm/support/

**Note:** In order to use this facility, you must use an IBM ID which has associated to it the licensed IBM customer number under which the product was purchased. If you have not yet obtained an IBM ID, visit

http://www.ibm.com/account/profile/

If you have not yet associated the licensed IBM customer number to your IBM ID, you will be prompted to do so when accessing the problem submission facility.

When using Program Services, the problem report is submitted via the PLM Technical Support Web site; all subsequent communications will be via email. The response
time for these problem reports, regardless of the severity, will be within two business days. All communications must be in English.

Not all options of the PLM technical support e-services are available in all countries.

If the problem reported is not determined to be a code-related problem, the customer will be informed that work will continue on it provided the customer has ECSR (Electronic Customer Support Representative) Enhanced Support. For additional information about the Enhanced Support contract and other available PLM services offerings, visit

http://www.ibm.com/software/applications/plm/support/

Click on the Support Offerings link under Buying and managing support or contact your PLM marketing representative or authorized IBM Business Partner for more information.

Preventive Service is delivered through the next release of DELMIA products. The new release also includes corrections to problems, depending on the time of their submission and their severity.

During the Program Services period, Corrective Service for DELMIA V5 releases is delivered through service packs on a regular basis. A service pack includes corrections for Blocking Problems in production systems reported on this release and all corrections available for all components at the time it is built. Service packs are provided at the same time for all platforms currently supported. Each service pack supersedes the previous one and may be installed on top of the released level or on top of a previous service pack.

Customers may request a correction via a service pack for Blocking Problems. A Blocking Problem is defined as:

- A problem that stops production: The customer is currently using the level for which a fix is requested in a production environment.
- A problem that prevents migration: The customer must provide the migration plan.
- A problem that halts testing of a given level: A fix will allow customer to continue the testing.
- Installation problem: A problem that prevents the customer from installing or using the product.
- Regression: Problems reported as regressions may be due to an operation that was being performed erroneously or created incorrect data with a previous release and the current release no longer permits these operations. Therefore, each problem reported as a regression must be evaluated. True regressions will be handled as Severity 1 problems.

Note: Customers experiencing problems with IBM License Use Management (LUM) products when used with DELMIA V5 products may report these problems through PLM product support. Note this only applies when the LUM product is being used in conjunction with a DELMIA product and the DELMIA product is within its support period. LUM problems will receive the Program Services level of support and must be submitted via the Problem Reporting process at the PLM Technical Support Web site at

http://www.ibm.com/software/applications/plm/support/

Program Services will be provided for DELMIA V5.20 products until October 19, 2012. After that date, should it be necessary for customers who are up-to-date on their Annual License Charge (ALC) payments to extend support, a support extension will be available for an additional fee.

This extension is for 1 year only, with no possibility of renewal, and will be limited to support of critical situations found in production running on an announced, supported environment and subject to the availability and maintainability of operating systems, databases, middleware and hardware (clients and servers) at
the time the critical situation is reported. Critical situation means a Severity 1 defect that is blocking production and has no workable alternative to unblock production.

In order to ensure uninterrupted support, support extension requests should be submitted at least 6 months prior to the end of support date through the customer’s marketing team or Business Partner.

This extension of support will not constitute an alternative to the customer’s migration to the latest release or version of the installed products and therefore the customer is obligated to have a documented and viable migration plan to the latest release or version in order to obtain an extension of support.

For a list of all currently supported releases of PLM products, visit

http://www.ibm.com/software/applications/plm/support/

On the left under Choose your task select Planning, then on the subsequent page under Plan an upgrade, select PLM Software End of Support Dates.

Note that Product Lifecycle Management must be added to your list of products otherwise the PLM portlets will not be displayed.

Prices

Country prices must be obtained from your local pricing function.

**PLC and ALC or RLC:** Customers who pay a PLC and an ALC or RLC for a licensed program receive enhancements and future releases, if any, at no additional charge. Significant new functions may be offered as an optional feature and charged for separately. If a replacement program is announced and the customer elects to license the replacement program for a PLC and an ALC or RLC and replace the prior program, an upgrade charge may apply.

The first payment consists of the primary license charge and the annual or recurring license charge. The annual or recurring license charge applies yearly thereafter.

**Use level authorization:** Charges are based on extent of use authorized for this program. When a customer wishes to increase the extent of use, an applicable charge will apply.

Country prices must be obtained from your local pricing function.

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