CATIA Solutions and CATIA Web-Based Learning Solutions Version 5
Release 18 Modification Level 0

CATIA V5.18 delivers seven new products and enhances 90 products
to:

- Improve end-to-end industry process coverage for composite
design to manufacturing, electrical harness design to
documentation, and printed circuit board design
- Increase range of manufacturing parts designed with
functional modeling
- Dramatically improve productivity for the powertrain and
chassis designer with breakthrough auto-drafting
- Extend the scope for the multi-discipline 3D collaboration
environment with the ENOVIA VPLM Navigator
- Expand the reach of 3D to a wider community with CATIA
3DLive and 3D XML

Hardware Requirements

Summary of Changes for V5.18

This release updates related operating system requirements.

Common Hardware Requirements

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

- Required components and features
  - Disk drive: An internal or external disk drive
    (minimum recommended size is 4 GB) is required
to store program executables, program data, the
user environment, and to supply paging space.
Installation of all CATIA V5 products requires 2.0
GB on Microsoft® Windows®, 2.4 GB on AIX®,
2.7 GB on HP-UX, and 2.3 GB on Solaris.
  - Memory: 256 MB of RAM is the minimum
recommended for all applications. 512 MB of RAM
is recommended for DMU applications on large
assemblies and for the Digitized Shape Editor 2
(DSE) product. 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.

-Optional components and features: For CATIA P2 and P3,
SpaceBall or SpaceMouse, in addition to the standard
mouse, can be used to perform graphic manipulations (zoom,
pan, rotate). The required drivers are delivered with these
devices. Support of these devices is also available with the
DMU Navigator 1 and DMU Space Analysis 1 P1 products.

The robustness of the overall solution is dependent on the robustness
of the operating system and the hardware environment used. Windows
XP® and UNIX hardware configurations certified by Dassault
Systems for running CATIA V5 products are published at

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

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

Hardware Requirements for Microsoft Windows XP

- System unit: An Intel® Pentium® 4 or Xeon based
workstation running Microsoft Windows XP Professional
Edition SP2.
- 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
Hardware Requirements for HP

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

Hardware Requirements for IBM AIX

- System unit: Any RS/6000®, based on the Power4, Power5, Power PC-970 processor families, supported on AIX V5.3.
- Graphics adapter: One of the following graphics adapters is required.
  - GXT500P
  - GXT550P
  - GXT800P
  - GXT800M
  - GXT2000P
  - GXT3000P
  - GXT4000P
  - GXT4500P
  - GXT6000P
  - GXT6500P

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.

Hardware Requirements for Windows x86-64 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: 2.5 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

Hardware Requirements for Sun® Solaris

- 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
  - XVR-600
  - XVR-1000
  - XVR-1200

Hardware Requirements for WLS

There are no specific requirements beyond those for CATIA V5.

Programming Requirements

Summary of Changes for V5.18

- V5.17 ended support for the following. These operating systems are not supported in V5.18.
  - IBM AIX 5.2.
  - SGI IRIX (all levels).
  - Sun Solaris 8.
- 32-bit requires:
  - Orbx 3.3 for all platforms.
- Minimum run-time support for IBM AIX running on Power4 or Power5 processors for both 32-bit and 64-bit is provided by AIX 5.3 ML03.
- Minimum run-time support for HP-UX Run-time is HP-UX 11i December, 2004 (on 32-bit only).
- Minimum run-time support on Sun Solaris SPARC is Solaris 10 SPARC. The minimum level required is Solaris 10 HW 03/05 with 119280-06 CDE 1.6 - Runtime library patch for Solaris 10.
- For interoperability with CATIA V4 CDM and ENOVIA VPLM ENOVIAVPM on AIX, Windows, HP-UX, or Solaris:
  - The required level of a DB2® UDB database server is Version 8.2.4.
  - The required level of an Oracle® database server is Oracle 10gR2.
  - The required level of HP-UX 11i is -UX 11i.v1 (11.11) December, 2004
  - The required level of Sun Solaris (SPARC) is Solaris 10 HW 03/05
  - The required level of AIX is AIX V5.3 with ML03 applied as the minimum level
- The required level for document browsers in a UNIX environment is Mozilla 1.7 for AIX, HP-UX, and Solaris and FireFox 2.0 for Sun Solaris SPARC.
For CATIA V5 64-bit on Windows XP Professional x64 Edition,
with the Following Components

- A Microsoft implementation of OpenGL libraries as delivered with Microsoft Windows XP Professional x64 Edition. These libraries may have to be modified to accommodate the selected graphics adapter when installing the graphics adapter and its associated drivers. For recommendations related to driver levels based on certified configurations, visit

http://www.3ds.com/support/workstations-peripherals/

- The following patches are required to run V5.18:
  - KB903648 - When using macro and VBScript features, V5 may crash when accessing more than 2GB of address space, a Microsoft patch corrects this problem, see Microsoft Article KB90368:

http://support.microsoft.com/default.aspx?scid=kb;en-us;903648
  - KB911021 - Required for applications allowing more than 2GB of address space, please contact your Microsoft Support Representative.

Software Requirements for IBM AIX 32-bit and 64-bit Platforms

AIX 5.3 ML03 (using 64-bit kernel), with the following components:

- XL C/C++ Enterprise Edition Run-time Environment at a minimum level of V7.0.0
  - XL 7 May 2005 PTF R/T (xIC.ai50.te at level 7.0.0.6), delivered through APAR IY71976
- XL Fortran Enterprise Edition for AIX Run-time at a minimum level of V9.1.0
  - November 2004 XL Fortran for AIX V9.1 Runtime PTF available at

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

Or

AIX 5.3 TL04-SP01 (using 64-bit kernel) with following components:

- XL C/C++ Enterprise Edition Run-time Environment at a minimum level of V8.0.0
  - January 2006 IBM C++ Runtime Environment Component for AIX available at

http://www.ibm.com/support/docview.wss?rs=0&uid=swg24011532

- XL Fortran Enterprise Edition for AIX Run-time at a minimum level of V10.1.0 available at

http://www.ibm.com/support/docview.wss?rs=0&uid=swg24010669

Software Requirements for HP-UX

HP-UX Version HP-UX 11iv1 (11.11) (December, 2004) with the following components at the minimum levels indicated:

- HP-UX Technical Computing OE (TCOE) Component December 2004
- Hardware Enablement Patches for HP-UX 11iv1, December 2004
- Gold Application Patches for HP-UX 11i v1, December 2004
- Gold Base Patches for HP-UX 11i v1, December 2004 with the following patches applied:
  - PHCO_31923 - Ibc cumulative header file patch
  - PHKL_31918 - fsadm;ACL;locking order;8K mount;readdir
  - PHNE_32477 - ONC/NFS General Release/Performance Patch
  - PHSS_29483 - HP aC++ Compiler (A.03.52)
  - PHSS_31271 - PEX 5.1/Starbase/Hardcopy Run (PA2.0 only)
  - PHSS_31274 - Starbase/Hardcopy Dev (PA2.0 only)
  - PHSS_32573 - HP aC++ - AA runtime libraries (aCC A.03.61)
  - PHSS_32928 - 3D Common Run (PA2.0 only)
  - PHSS_32934 - OpenGL 1.1 Run (PA2.0 only)
  - PHSS_32939 - Xserver cumulative patch
  - PHSS_33033 - Id(1) and linker tools cumulative patch
- HP-UX 700 OpenGL 3D API Runtime Environment
- CDE (delivered with the operating system)
- A localized version of the operating system may be required when the selected installation locale differs from ISO code pages.
- WAS 6.1 and WPS support requires HP 11i v2. V5 applications support is not supported on HP 11i v2.

**Software Requirements for Sun Solaris**

Sun Solaris 10 H/W 03/05, with:

- 119280-06 CDE 1.6 - Runtime patch for Solaris 10

**Requirements for Interoperability with ENOVIA VPLM Products**

- CATIA V5 and ENOVIA VPLM V5 must be at the same release, service pack, and hot fix level for proper interoperability.
- CATIA V5 and ENOVIA VPLM interoperability is supported between various CATIA V5 release and ENOVIA VPLM PTF levels. Refer to the most recent ENOVIA VPLM PTF program directory for the current prerequisite and recommended interoperability PTFs.

**Product-Specific Software Requirements for CATIA P2**

- CATIA - V4 Integration 2 (V4I) requires, on the CATIA V5 client, for interoperability with CATIA V4 CDM and ENOVIA VPLM ENOVIAVPM:
  - If the database server is DB2,
    - On AIX, Microsoft Windows, HP-UX, or Solaris: DB2 UDB V8.2.4
  - If the database server is Oracle,
    - On AIX, Microsoft Windows, HP-UX or Solaris - Oracle 10gR2

  **Note:** Contact your IBM or Oracle representative for support and planning information on DB2 UDB or Oracle.

**Notes:**

- ENOVIA VPLM ENOVIAVPM 1.5 on SGI has been withdrawn from marketing.

**Interoperability of CATIA V5 on the supported Microsoft Windows platforms with ENOVIA VPLM ENOVIAVPM through ENOVIA 3d com requires, on the client side, either (depending whether the database server is a DB2 or an Oracle server):

- DB2 Universal Database V8.2.4 Client for Windows
- Oracle Client Version 10gR2 for Windows

**Math Kernel Libraries - When on an Intel architecture in a Windows environment, the performance of the following products can be improved through the use of Intel Math Kernel Libraries at level 6.0:**

- CATIA - Generative Part Structural Analysis 1 (GP1)
- CATIA - Generative Part Structural Analysis 2 (GPS)
- CATIA - Generative Assembly Structural Analysis 2 (GAS)
- CATIA - ELFINI Structural Analysis 2 (EST)
- CATIA - Tolerance Analysis of Deformable Assembly 3 (TAA)
- CATIA - Product Engineering Optimizer 2 (PEO)
- CATIA - Generative Dynamic Response Analysis 2 (GDY)

MKL Libraries at level 6.0 can be obtained from:


In a Windows XP x64 environment, MKL 8.0 or higher is recommended.

This requirement is optional. Refer to "Before you Begin" in the Generative Structural Analysis User's Guide for additional information.

**Specific Software Requirements for CATIA WLS V5**

**Access to the companion desktop** - Companion desktop access is accomplished using the same browser requirements as CATIA V5 (see Access to product information). The Java® plug-in (JRE at a minimum level of 1.5) is required to visualize the different types of simulations (Show Me, Discover It, Try It, and the Quiz) and to allow for automatic model loading from CATIA.

The supported level of JRE 1.5 can be downloaded from:


Additionally:

- Some WLS products may provide learning resources using the Portable Document Format (PDF). To view these documents, Adobe Acrobat Reader, at minimum level 5.0, must be installed as a plug-in on the browser. The latest level of the Reader can be downloaded from [http://www.adobe.com/](http://www.adobe.com/)

Although access to WLS might work on other HTML browsers, incidents specific to browsers other than the products mentioned above are not eligible for support.
- An installation of CATIA V5.18, though not a strict requirement, is recommended to practice the provided exercises automatically loaded by the User Companion Desktop in the active CATIA session.
- For the CATIA User Companion for V4 Mechanical Design product, an installation of CATIA V4 at level R2.1 or above is recommended to practice the provided exercises automatically loaded by the User Companion Desktop in the active CATIA session.

**WLS license management** - Licenses can be managed either using standard CATIA V5 licensing or by using the J2EE Companion Server. For standard licensing, see Prerequisites for the license management environment. Requirements for the J2EE Companion Server are:

- Application server setup - The application server used must support Servlet 2.4 and JSP 2.0 and must be able to handle the Companion Server WAR or EAR files. These files are copied during installation if the application server option was selected during the installation procedure. The server setup operation depends on the application server used and must be done by the system administrator.
- Companion application setup for license serving - The application server machine must be able to access WLS licenses, and licenses must be available to this server machine. For the Enterprise Option, the total number of licenses must be equal to the maximum number of students that will be connected at the same time to the application server.

**Companion Development Studio** - The Companion Development Studio is designed to communicate with other applications. The Companion Development Studio Product (5691-CDS) requires:

- Microsoft Windows XP Professional Edition SP2
- JRE at a minimum level of 1.5. The supported version of JRE 1.5 can be downloaded from [http://java.sun.com/products/archive/index.html](http://java.sun.com/products/archive/index.html)

The following are not requirements, but are recommended to take full advantage of the product.

- Access to one of the following browsers is mandatory for the preview of screens:
  - Microsoft Internet Explorer 6.0 (Microsoft VM version number 3158, at a minimum)
  - Mozilla 1.7 for AIX, HP-UX, and Solaris

  **Note:** Access to the screens developed with the Companion Development Studio might be accessible directly through the Companion Desktop. The Companion Desktop has been a license key managed product available with any WLS entry configuration since V5.9. Installation of any WLS standard configuration will provide the Companion Desktop license key and will allow access to customer-developed screens and skillets.


  **Note:** Although different versions of Microsoft PowerPoint and Microsoft Word may work, incidents specific to other than the versions specified above are not eligible for support.

**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 CATIA V5.

- In a UNIX environment
  - For AIX, HP-UX, or Solaris - Mozilla 1.7
  - FireFox for Sun Solaris SPARC
- In a Microsoft Windows environment, one of the following browsers is required:
  - Microsoft Internet Explorer at a minimum level of 7.0 Mozilla 1.7 with the Java plug-in installed

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 SR3 can be downloaded from [http://www.ibm.com/developerworks/java/jdk/aix/service.html](http://www.ibm.com/developerworks/java/jdk/aix/service.html)
- For HP-UX, Java Runtime Environment 5.0.0.1 can be downloaded from [http://www.hp.com/go/java](http://www.hp.com/go/java)

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.

**Note:** Improvements in HTML searching and printing capabilities eliminate the need to duplicate product information in the Portable Document Format (PDF) format. PDF CDs are therefore no longer included in the CATIA V5 softcopy collection kit.

**Prerequisites for the License Management Environment**

Microsoft Windows workstations 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.

Dassault Systemes License Use Management (LUM) is required to serve concurrent license keys across a network. A LUM configuration file (i4ls.ini) is required on CATIA V5 clients to access concurrent license keys from these servers. Server and Nodelock license management mechanisms are available for CATIA V5 P1, P2, and P3 on all supported operating environments.

Dassault Systemes LUM level:
For Windows, the interpreter is either:

- VB Script at a minimum level of V5.0. It is delivered with Microsoft Internet Explorer. VB Script libraries at level 5.0.0.3715 are delivered with Microsoft Internet Explorer 5.0 or at later levels with later versions of Internet Explorer. Use of VB Script is recommended for developing Microsoft Windows- and UNIX-compatible macros.
- Microsoft VisualBasic for Applications (VBA) at a minimum level of 6.0. VBA is delivered and installed by default with CATIA V5.

**Macro Replay Capabilities**

CATIA V5 has built-in macro record and replay capabilities. For UNIX, the interpreter is VB Script 3.0 from Mainsoft. Its components are included in CATIA V5 as shared libraries.

For Windows, the interpreter is either:

- VB Script at a minimum level of V5.0. It is delivered with Microsoft Internet Explorer. VB Script libraries at level 5.0.0.3715 are delivered with Microsoft Internet Explorer 5.0 or at later levels with later versions of Internet Explorer. Use of VB Script is recommended for developing Microsoft Windows- and UNIX-compatible macros.
- Microsoft VisualBasic for Applications (VBA) at a minimum level of 6.0. VBA is delivered and installed by default with CATIA V5.

 Printer and Plotter Support

- UNIX - CATIA V5 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
- 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.

**CATIA V5 General Packaging Principles**

- A CATIA P1 product or a CATIA P1 configuration requires or must include (in the case of configurations) CATIA - Object Manager 1 (CO1). P1 products can be used on P2 or P3, and in such cases, they operate with CATIA - Object Manager 2 (COM) or CATIA - Object Manager 3 (CO3), respectively.
- A CATIA P2 product or a CATIA P2 configuration requires, or must include (in the case of configurations), CATIA - Object Manager 2 (COM). P2 products can be used on P3, and in such cases, they operate with CATIA - Object Manager 3 (CO3).
- CATIA - COM 1 to 2 Extension (5693-C12) allows all P2 products to be added on to P1 configurations. The C12 product effectively upgrades the P1 infrastructure (CO1) to the P2 infrastructure (COM). The C12 product does not change the underlying P1 configuration; included products remain P1. The C12 product can be used as a shareable (5691-C12) or add-on (5693-C12) product.
- A CATIA P3 product or a CATIA P3 configuration requires or must include (in the case of configurations) CATIA - Object Manager 3 (CO3). P1, P2, and P3 shareable and add-on products are available to P9 configurations as shareable or add-on products.

- License keys for CATIA configurations are acquired and released for the total configuration.
- The functions within a configuration cannot be shared.
- A configuration is required for each CATIA V5 seat.
- CATIA V5 add-on (AOP) 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.
- CATIA - V4 Integration 2 (V4I) is included in all P2 and P3 configurations, and CATIA - V4 Integration 1 (V41) is included in all P1 configurations.

**Licensed Program Materials Availability**

- Restricted materials - No. This licensed program is available without source licensed program materials. It is available in object code only.

**Supplemental Terms**

**Type/Duration of Program Services (also referred to as “Support Services”)**

You will find all necessary information including processes, on Dassault Systemes web site:

http://www.3ds.com/terms/support-policies

**The License Management Model**

**CATIA V5 License Management Model**

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

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

- A CATIA V5 configuration (standard or custom) will require a license key. License keys for CATIA V5 configurations are acquired and released for the total configuration. The products within a configuration cannot be shared.
- Each CATIA V5 shareable product will require a license key, in addition to one for the prerequisite configuration and any prerequisite product, if applicable.
- In all cases, CATIA configuration license keys are acquired at the beginning of the process and are released at its termination.
- CATIA V5 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
concurrent offline license management. Licenses for these products are acquired dynamically when the function is invoked from CATIA and may not be released until the CATIA session is ended.

Educational Allowance Available

The standard educational allowance does not apply to CATIA V5 and CATIA WLS V5 products. However, these products are available in several configurations under Dassault Systemes Academic Program.

Designated Machine Identification

No

Test Period

No

Use-Based Charges/Usage Restrictions

Charges for this program are based on the number of users logged on at any time. The total number of users logged on may not exceed the number for which you have been authorized. If the total number exceeds your authorization, you must notify Dassault Systemes and obtain additional authorizations.

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