CAA RADE Version 5 Release 20 Modification Level 0

CAA RADE V5.20 includes the following features and benefits:

- Widens the scope of APIs available for CATIA, ENOVIA VPLM, and DELMIA V5
- Provides continuous improvement of build tools and new checks for better control of code architecture
- Delivers unprecedented openness to facilitate Product Lifecycle Management (PLM) portfolio extension

Hardware Requirements

Common Hardware Requirements

The support of the following operating systems ended with V5.19:

- AIX® V5.3
- Hewlett-Packard HP-UX

V5.20 is the last release supported on the following operating systems:

- Sun(TM) Solaris
- IBM AIX Workstations - client side only

Build-time Hardware Requirements for CAA RADE

Hardware requirements are identical to those for CATIA V5 or ENOVIA VPLM, depending on the applications being developed, with the following exceptions:

Required Components and Features

- **Disk drive:** An internal or external disk drive of at least 4 GB is required to store program executables, program data, usage environment, and paging space.
- **Memory:** At least 512 MB of real memory is recommended for all applications.

Windows® x86-64 64-bit platform hardware requirements

- **Disk drive:** 15 GB.
- **Memory:** 2 GB of real memory is recommended for all applications.
- **Processor:** Intel® Xeon® EM64T, Intel Pentium® EM64T, and AMD Opteron 64-bit.

Programming Requirements

Common Software Requirements

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Supported Operating System Level</th>
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</thead>
<tbody>
<tr>
<td>Microsoft® Windows 32-bit</td>
<td>Windows XP Professional SP3 Windows Vista x64</td>
</tr>
<tr>
<td>Microsoft Windows 64-bit</td>
<td>Windows Vista Enterprise and Business SP1 64-bit Windows Vista x64</td>
</tr>
<tr>
<td>AIX</td>
<td>AIX V6.1 Technical Level 02</td>
</tr>
<tr>
<td>Sun Solaris</td>
<td>Solaris 10 HW 03/05 Sun JDK 6 Update 14 mini</td>
</tr>
</tbody>
</table>

Systems Requirements

Run-time software requirements for CAA RADE V5 APIs are the same as those described in the applicable CATIA, DELMIA, and ENOVIA VPLM announcements. In addition, refer to the following:

<table>
<thead>
<tr>
<th>Applications built with CAA RADE on x64</th>
<th>Format Generation</th>
<th>Run on Windows XP 32-bit</th>
<th>Run on Windows XP Prof. 32-bit</th>
<th>Run on Windows Vista 32-bit</th>
<th>Run on Windows Vista 64-bit</th>
<th>Edition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Windows</strong></td>
<td><strong>32-bit</strong></td>
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<td><strong>Yes</strong></td>
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</tbody>
</table>

(2) When running on Windows 64-bit platforms, Windows 32-bit applications take advantage of Windows 64 on Windows 64 simulation mode (WoW64).
Build-time Software Requirements

Refer to the Program Directory for the referenced product or contact your Dassault Systemes Support Center for appropriate corrective service to apply to the software described in the following topics.

<table>
<thead>
<tr>
<th>Windows 32-bit on Windows 64-bit</th>
<th>AIX x64 (64-bit support)</th>
<th>Sun x64 (64-bit support)</th>
<th>Win SP 64-bit</th>
<th>Win SP Prof/وكالة الدعم Liberals</th>
<th>Win Vista x64</th>
<th>Win Vista x64</th>
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</thead>
<tbody>
<tr>
<td>CAA - Data Model Customizer</td>
<td>X(3)</td>
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<tr>
<td>CAA - C++ Interactive</td>
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<td>CAA - Java(TM) Interactive</td>
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<td>Build Test Manager</td>
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<td>C++ Source Checker</td>
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<td>C++ API Documentation Generator</td>
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<td>Interactive Test Capture</td>
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</table>

- Cross compilation is supported on Windows. 32-bit code must be built on a 32-bit platform and 64-bit code must be built on a 64-bit platform.
- All configurations can be installed on Windows XP Professional x64 Edition, but only the products listed in the previous table are supported on this platform.

Windows 32-bit for CAA RADE Configurations

- Microsoft Windows XP Professional Edition SP2 with the following components:
  - Microsoft Windows XP delivers an implementation of OpenGL libraries. Dassault Systemes will provide recommendations related to driver levels based on tested graphic adapters at [http://www.3ds.com/support/hardware-certification/overview/](http://www.3ds.com/support/hardware-certification/overview/)
  - A localized version of the operating system may be required when the selected installation differs from Linux1.
  - CRT and MFC redistributable products: As delivered with V5 media; should be installed on targeted host.
  - MS06-075: Vulnerability in Windows could allow elevation of privilege. Information is available at [http://www.microsoft.com/technet/security/bulletin/MS06-075.mspx](http://www.microsoft.com/technet/security/bulletin/MS06-075.mspx)
  - MSI Installer 3.1 : Windows Installer 3.1 v2 (3.1.4000.2435) available at [http://support.microsoft.com/kb/893803](http://support.microsoft.com/kb/893803)
  - Compiler: Microsoft Visual Studio .Net 2005

Windows XP Professional x64 Edition

The following components at the indicated level are required for PLM V5 64-bit:
- Windows XP Professional x64 Edition
- Compiler: Microsoft Visual Studio .Net 2005

Windows 64-bit for CAA RADE Configurations

This release delivers 64-bit support on the Windows XP x64 and Windows Server 2003 x64 operating systems. This enhancement offers 64-bit support for all CAA RADE configurations. All CAA RADE products can be installed. The support for 64-bit applies to the products listed in the following text. The CAA - Multi-Workspace Application Builder product will run in 64-bit mode.

The following products will run using Windows 32 on Windows 64 emulation mode (WoW64):
- CAA - C++ Unit Test Manager
- CAA - Java Unit Test Manager
- CAA - C++ API Documentation Generator
- CAA - C++ Source Checker
- CAA - Source Code Manager
- CAA - Interactive Test Capture

The CAA - Multi-Workspace Application Builder (MAB) product can be used to compile and link-edit native 64-bit applications. The option in the Interactive Dashboard product to automatically transfer and build (compile and link) remotely (known as Build on UNIX®) is not supported for build of Win 64-bit applications. Therefore, the developer will typically manually port (transfer) the application from the 32-bit to the 64-bit Windows platform, and use the command line mkmk of MAB to build the 64-bit application.

Building a True/Native Windows 64-bit Application

The recommended approach requires installing the applicable CAA RADE configuration on both the 32- and 64-bit machines. The authoring tool (CID) is not supported in the 64-bit environment. The developer will author the code on a 32-bit machine, and then port/transfer the source code manually to a 64-bit machine.

Using the MAB product, the developer builds (compile and link) the application in a 64-bit environment with 64-bit executable (binary) code. The compiled and linked application will take full advantage of all the 64-bit features and functions, most notably the expanded memory and address range. When the build is completed, the CAA RADE products that are supported in a 64-bit environment can be used for testing, documenting, and so on, on the application.

An application built using this process will only run in a 64-bit environment.

Using the 32-bit Emulation Mode

The developer will build (compile and link) the code in a 32-bit environment. This includes both authoring and building the executable code. The executable (binary) code is ported/transferred to the 64-bit environment. Using the emulation mode, the code is executed. An application developed with this process will run on both the Windows 32-bit and Windows 64-bit environment but will not take advantage of all the additional 64-bit operating system capabilities available to applications developed in a native 64-bit environment.

AIX (32- and 64-bit)

AIX V6.1 TL 02 (using 64-bit kernel) with the following components:
XL C/C++ Enterprise Edition V7.0.0 Run-time Environment:  
XL 7 May 2005 PTF R/T (xlC.aix50.rte at level 7.0.0.6), delivered through APAR IY71976


http://www.ibm.com/software/awdtools/fortran

Additional Support

- AIX V6.1 TL 02 (using 64-bit kernel) with the following components:
  - OpenGL and GL3.2 Runtime Environment (delivered with the operating system)
  - Common Desktop Environment (CDE), delivered with the operating system
  - XL C/C++ Enterprise Edition V8.0.0 Run-time Environment: January 2006 IBM C++ Runtime Environment Component for AIX, available at


- XL Fortran Enterprise Edition V10.1.0 for AIX Run-Time: Base level available at

  http://www-1.ibm.com/support/docview.wss?uid=swg24010669

  - Support for the use of nodelock license requires:
    - IY80993: Workaround Application Dependency on System-ID
    - Firmware Version: AT061_061 or later
  - Nodelock licensing requires the following patches:
    - IY82392: 0C9 System Crash with Graphics Adapter
    - Support of GXT4500P requires the following patch to be applied: IY80526: CATIA V4 Hangs on GXT4500P when rotating a model.

- WebSphere® Application Server V6.1 and WebSphere Portal Server support or IBM IntelliStation P185 support requires AIX V6.1 TL 02 with previously specified recommendations

For AIX V6.1 TL 02 using the following C/C++ Compiler:

- XL C/C++ V7.0 November 2004 PTF ( Compiler ) ( vaccpp.cmp.core at level 7.0.0.1 )
- With elfix to correct a namemangling regression: “Dassault Interim Fix 060728”
  - Installation instructions and usage information are available at

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

  - Customization is required in addition to the namemangling fix.

  Add the following option (-qnamemanglingrulefor=compat=nofparmstypedefscmp) at the end of the “options” line in the /etc/vac.cfg file, under the default section:

  DEFLT: cppcomp = /usr/vacpp/exe/xlCentry

Sun Solaris

Sun Solaris 10 H/W 05/03 (SPARC) with:

- 119280-06 CDE 1.6: Runtime library patch for Solaris 10
- C, C++ Sun Studio 10 compiler

Required Patches

The following build-time patch is required in addition to the run-time patches recommended for CATIA V5.18 (listed in the CATIA Program Directory) - with C, C++ Sun Studio 10 compiler collection:

- 117830-02 C++ 5.7 sun studio 10 C++ compiler
- 117832-01 common compiler backend iprot cg ipo ss10cc
- 117834-02 f95 8.1 fortran 90 sun studio 10
- 117836-02 C 5.7: Patch for SS10 C Compiler
- 117840-02 Patch for Sun Studio 10 Fortran 95 Dynamic Libraries
- 118678-01 Patch for Sun Studio 10 Performance Analyzer Tools

Specific Software Requirements

CAA - Multi-Workspace Application Builder Product (MAB) requires:

- Java Development Kit Environment to build Interface Definition Language (IDL) interfaces and code for Java server side and client side applications, V1.5 on Windows (TM) 64-bit
  - Windows - SUN Java Development Kit Version 5.0 Update 5 may be downloaded from


  Note: For Windows 64-bit - SUN Java Development Kit for 64-bit is also at V5.0 Update 5 level.

- AIX - Java Development Kit Version Java 1.5.0, which can be downloaded from


  - Sun Solaris - Java Development Kit Version 5.0 Update 7 may be downloaded from


CAA - C++ Interactive Dashboard (CID) requires:

- Windows XP or Windows XP Professional x64 Edition, IDE for Microsoft Visual Studio .NET 2005
- Microsoft Internet Explorer (delivered with Windows XP or with Windows XP Professional x64 Edition), at minimum level 7.0

CAA - Data Model Customizer (DMC) requires:
Either of the following:
  - IBM Rational Software Modeler V7
  - IBM Rational Software Architect V7
  - Microsoft Internet Explorer at minimum level 7.0

CAA - C++ Unit Test Manager (CUT)

When running Automatic Run time batch test replay, CUT requires one of the following:

- Mortice Kern Software (MKS) Toolkit for Developer V8.1 on Windows XP
- MKS Toolkit for Developer V8.7 patch 4 on Windows XP 64-bit.

CAA - Java Unit Test Manager (JUT)

When running Automatic Run time batch test replay, JUT requires one of the following:

- Mortice Kern Software (MKS) Toolkit for Developer V8.1 on Windows XP
- MKS Toolkit for Developer V8.7 patch 4 on Windows XP 64-bit.

CAA - Source Code Manager requires:

- Mortice Kern Software (MKS) Toolkit for Developer V8.1 on Windows XP
- MKS Toolkit for Developer V8.7 patch 4 on Windows XP 64-bit.
- DB2® Universal Database or Oracle Enterprise Edition:
  - DB2 9.1 FP4 on Windows, AIX, or Sun Solaris
  - Oracle 10gR2 (10.0.2.0.2) minimum, on Windows, AIX, or Sun Solaris

CAA - Java Interactive Dashboard (JID) requires Rational Application Developer V7.0.

CAA - Web Application Composer (WAC) requires Rational Application Developer V7.0.

CAA - Interactive Test Capture requires CAA - C++ Unit Test Manager.

Access to Online Documentation

Product information is delivered on the product CDs in HTML format. An HTML browser is required to access this documentation. Online documentation may be installed and used only in an officially supported operating environment.

- Windows -- Microsoft Internet Explorer 7.0 with Java plug-in V5.0, update 7 is available at http://java.sun.com/products/archive/index.html
- AIX -- For Mozilla 1.7, the recommended plug-in on AIX is Java 1.5.0 SR3, which is available at http://java.sun.com/products/archive/index.html
- Sun Solaris -- Use Mozilla Firefox 2.0 browser, which is available at http://www.mozilla.com/en-US/firefox/2.0.0.3/releases

A Java plug-in is necessary for access to the Documentation search applet. The recommended plug-in on Solaris is Version 5.0 update 7, which is available under the JDK/JRE 5.0 section at http://java.sun.com/products/archive/index.html

Although access to the online documentation might work on other HTML browsers, incidents specific to other browsers than above mentioned products 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 CAA RADE V5 softcopy collection kit.

Prerequisites for the Licensing Management Environment

Windows workstations must have a LAN card (Ethernet or Token-Ring) and TCP/IP installed and properly configured, even in the case of nodelock keys. For nodelock licensing, there is no requirement for the workstations to be connected to the network.

No additional 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 CAA RADE clients to access concurrent license keys from these servers.

Note: LUM 5 is not compatible with this V5 delivery.

LUM at a minimum level 4.6.8.3 is required.

LUM 4.6.8 with Patch 4.6.8.3 is shipped with CAA RADE V5. Various release levels of LUM may be downloaded, at no charge, from http://www.3ds.com/support/resource-library/

For Macro Replay

CATIA V5 has built-in macro record and replay capabilities.

For UNIX, components of the Visual Basic (VB) Script 3.0 interpreter, from Mainsoft, are included in the CATIA V5 shared libraries.

On Windows, the interpreter is either:

- VB Script at minimum level 5.0. This is delivered with Microsoft Internet Explorer. VB Script libraries, at level 5.0.0.3715, are delivered with IE 6.0 with later versions of Microsoft Internet Explorer. Use of VB Script is recommended for developing Windows- or UNIX-compatible macros.
- Microsoft Visual Basic for Applications (VBA) at minimum level 6.0. VBA is included with CATIA V5.
Software Installation

On Windows, the process of installation and deinstallation makes use of Windows-compliant tools such as Install Shield, simplifying the task for those familiar with Windows procedures and concepts. These procedures are also ported to the UNIX environment to preserve a common V5 installation interface for all supported operating systems.

Key advantages of this approach include:

- Ease of installation: Any user can install and execute the product with a limited number of interactions.
- Fast installation: The RADE products install and are ready to use quickly.
- Reduced user environment: When installed, a minimum of customization is necessary to give access to the product to any user.
- Customizable installation: Installation procedures include the possibility to select downloaded products.

Documentation

Online guides are provided with CAA RADE V5, including:

- Reference documentation for class, interface, global function, macro, enumeration, and header files
  - C++ objects - Extended CAA
  - Java objects - Extended CAA
  - Scripting objects - Standard CAA
- RADE tool documentation
- V5 C++, Java and Automation programming and methodology documentation
  - Methodology guides
  - Programming guides for CATIA and ENOVIA VPLM APIs, by domain, including use cases, technical articles, and quick reference guides
  - Programming guides for architecture fundamentals
  - CAA code samples

These guides are part of the complete online documentation provided on CD. Totally Web-oriented using standard HTML and graphics formats, online documentation is readily accessible using a standard Web browser. Navigation help includes the ability to do full text search.

License Management Model

CAA RADE V5 delivers identical license management mechanisms on UNIX and Windows environments, based on LUM and on the UNIX license management server, sharable across UNIX and Windows clients.

- License key is required to use a CAA RADE configuration or product.
- License keys are acquired and released for the total configuration. The products within a standard or custom configuration cannot be broken up or shared outside of it.
- In all cases, license keys are acquired at the beginning of the process (login) and released at its termination (logout).

A customer application program being developed using CATIA or ENOVIA VPLM APIs will behave at run-time with the very same licensing mechanism than as any other CATIA or ENOVIA VPLM interactive product. In this respect, the same rules will remain. In particular, CATIA - Object Manager (CO1, COM, or CO3) will be required for all CATIA run-time application programs.

The same principles apply when testing and debugging custom applications within the RADE tools.

CAA RADE V5 can be used in two licensing management modes, either nodelock or with concurrent keys on a network.

Nodelock Usage

The use of local display of the hardware configuration is mandatory for use of CAA RADE V5 in nodelock mode.

There are no limits to the number of CAA RADE V5 processes that may be launched for a given license. For example, a user may run multiple link-editing tasks with a single license.

Concurrent Usage

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

License keys for CAA RADE V5 configurations are acquired and released for the total configuration. The functions within a configuration cannot be shared.

Concurrent Offline License Keys

The concurrent licensing control technique is available via the LUM server.

Note: Concurrent offline licensing on Microsoft Windows 64-bit platform is supported.

It gives CATIA, ENOVIA DMU, DELMIA, and RADE applications, running on a laptop with a Windows platform, the ability to disconnect from the license server for a defined period of time, so that users can take advantage of full license capability while mobile. During this checkout period, the license key is unavailable for use by another concurrent user. This feature is designed to add flexibility to users’ work environments.

All Agreement 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.

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

Independent Software Vendors and Service Providers

Independent software vendors (ISVs) and service providers (SPs), as defined in the following text, must obtain licenses to CAA RADE directly from Dassault Systemes SA.

An ISV is an entity which has as a core business the development of generally available application programs for computer-aided design / engineering / manufacturing and product integrated management.

An SP is an entity which has as a core business the delivery of consulting, integration and other information systems services to third parties in the areas of computer-aided design / engineering / manufacturing and product integrated management.

Use of CAA RADE V5 by customers other than ISVs and SPs

The following provisions are in addition to the terms and conditions in the Agreement or any equivalent agreement executed by you and Dassault Systemes (the “Agreement”). You may not use the Program if you do not have a valid Agreement in place with Dassault Systemes or if you do not accept these Additional Supplemental Terms. Any capitalized terms that are not defined herein are defined in the Agreement.

You are licensed to distribute your applications developed with the CAA RADE Configurations, hereinafter known as “V5 Complementary Applications,” to your subcontractors and direct and indirect suppliers solely for performance of work by such subcontractors and suppliers for your benefit. This license includes your right to authorize your subcontractors and direct and indirect suppliers to use, execute, reproduce, display, perform and distribute internally the V5 Complementary Applications.

The rights and licenses granteded in the Agreement and in these Additional Supplemental Terms do not include the right to use the CAA RADE Configurations in the provision of services to a third party. Permission from Dassault Systemes S.A. is required to do so.

In addition, the rights and licenses granted in the Agreement and in these Additional Supplemental Terms do not include the right to make the V5 Complementary Applications generally available. For this purpose, generally available shall mean the general release or other distribution of the V5 Complementary Applications as commercially available, directly or through other parties, for use by users. A CAA agreement with Dassault Systemes S.A. is required to do so.

Designated Machine Identification

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.

Softcopy Publications

The program that Dassault Systemes licenses may include licensed publications in displayable or source form. Except as provided in this section, the terms and conditions of the license agreement with Dassault Systemes apply to these publications and to any copies that are made from them.

The licensed publications may be used in displayable or source form on all machines designated for this program. The licensed publications may also be copied and used on other machines in support of authorized use of this program.

To support authorized use of the Program, printed copies of the displayable or source material may be made if the copyright notice and any other legend of ownership is reproduced on each copy or partial copy.¹

Warranty

This program is warranted as specified in the Dassault Systemes license.

Licensed Program Specifications may be updated from time to time and such updates may constitute a change in specifications.

Following the discontinuance of all program services, this program will be provided “As Is” as specified in the Dassault Systemes license.

Footnotes:

¹ Trademarks

Company names, products and services may be trademarks or service mark of related companies.

References in this publication to Dassault Systemes products, programs, or services do not imply that Dassault Systemes intends to make these available in all countries in which Dassault Systemes operates.

Any other documentation with respect to this licensed
program, including any documentation referenced herein, is provided for reference purposes only and does not extend or modify these specifications.

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