Overview
Complementing both CATIA V5 and ENOVIA V5, Component Application Architecture Rapid Application Development Environment (CAA RADE) V5.10 delivers:

- A complete set of customization capabilities for leveraging CATIA application extensions in many domains that span from mechanical, manufacturing, and electrical, to product synthesis and analysis.
- Repackaging of the most used configuration (C++ Advanced Development) that now includes CAA—C++ API Documentation Generator (CDG). This ensures developers will benefit from design operations up to code documentation within a single configuration.
- New capabilities added to CAA-Teamwork Release Manager (TRM). The graph release task is now fully customizable, to match exactly IT organizations needs.
- New operating system support that includes HP-UX 11.0 and Microsoft® Windows® XP. CAA RADE V5 now supports seven different operating systems to build and run CAA RADE-based V5 applications.

Key Prerequisites
Depending on the tools used:
- WebSphere® Studio Application Developer
- Microsoft Internet Explorer 5.0
- Microsoft Windows NT®, Windows 2000, or Windows XP
- Windows Visual C++ 6.0
- Rational Purify V6.5, Rational PureCoverage V6.5
- Mortice Kern Software (MKS) Toolkit for Developer V7.5
- Workstation capable of using Windows NT, Windows 2000, or Windows XP
- Hard drive with 4 GB minimum free space
- Minimum of 512 MB system memory

Consideration should also be given to intended run-time environment, applications being developed, their target platforms, and operating systems.

Planned Availability Date
November 29, 2002

At a Glance
Component Application Architecture Rapid Application Development Environment (CAA RADE) V5.10 delivers:

- Unprecedented openness — Access to more than 2,500 component-based APIs across the range of Product Lifecycle Management (PLM)
- Unequalled value — Integration of customer know-how and added-value applications
- Enablement of third-party application development to expand PLM solutions
- Fast development of robust and durable applications with open standard architecture
- Productivity driven standard-compliant toolkits to produce CATIA V5 applications on Windows NT and UNIX®

For ordering, contact:
Your IBM representative or IBM Americas Call Centers at 800-IBM-CALL
Reference: YE001

This announcement is provided for your information only. For additional information, contact your IBM representative, call 800-IBM-4YOU, or visit the IBM home page at: http://www.ibm.com.
**Description**

CAA RADE V5 is the next-generation middleware for implementing 3D PLM best practices and business processes through process-centric applications.

For over 15 years, Interactive User Access (IUA) and Graphic Interactive Interface (GII), the CATIA component APIs, have represented one of the broadest open architectures in the CAD/CAM market. From CATIA V2 to V5, customers and third-party vendors alike have used them to enhance and extend the capabilities of the CATIA product set. The introduction of CATIA and ENOVIA V5, with their advanced architecture made it necessary to provide an equally advanced development environment to complement it, taking advantage of:

- Familiar Windows user environment and automation programming interfaces available on both Windows (NT and 2000) and UNIX platforms
- Object-Oriented C++ and Java™ programming
- An industry-standard environment (Web, multi-OS, multi-Relational Database Management System (RDBMS), middleware)

CAA RADE V5.10 provides the scalable application architecture for these next-generation products and the tools needed to take full advantage of them.

**CAA RADE V5 APIs**

Component-based APIs, built upon the V5 open-standard architecture, are delivered with their related interactive products. These APIs are for use with the CAA RADE V5 tools. Refer to the respective CATIA or ENOVIA announcement for a detailed functional description.

**CAA RADE V5 Tools**

Developed from many of the same tools used to create CATIA and ENOVIA V5, CAA RADE V5 provides the user a fast new development environment with features such as:

- Interactive and visual development tools based on industry standards
- Integrated suite of tools to speed the software development life cycle
- Single-source development tools: build once, run on multiple operating systems
- Concurrent software development environment

**Note:** For proper operation, both the CAA RADE V5 tools and APIs must be at the same version, release and service pack levels.

**New in V5.10**

- **CAA — C++ Extended Development Configuration (CDC)** — Repackaged to Include CAA — C++ API Document Generator (CDG)

  This ensures developers to benefit from design operations up to code documentation within a single configuration.

- **CAA — Teamwork Release Manager (TRM)** — New Capabilities Added

  The graph release task now has full customizing capability to match the exact needs of an IT organization.

**New Operating System Support**

V5.10 includes HP-UX 11.0 and Windows XP. CAA RADE V5 now supports seven different operating systems to build and run CAA RADE-based V5 applications.

**Customization Capabilities**

V5.10 delivers a complete set of customization capabilities for leveraging CATIA application extensions in many domains that span from mechanical, manufacturing, and electrical, to product synthesis and analysis.

For a full description of the other CAA RADE V5 products and configurations available, refer to the PLM Salesguide at:


**Accessibility by People with Disabilities**

These products and features have been granted a deviation exception for 2002.

**Product Positioning**

CAA RADE V5 provides an integrated set of tools and resources to support the development process from initial specification to final product packaging. For CATIA and ENOVIA V5 solutions, it is positioned as next-generation middleware for implementing 3D PLM best practices and business processes through process-centric applications.

CAA RADE V5 stands alone as the only system addressing the customization of these applications using a unified architecture. Unlike competitive products, which currently only address part of their respective portfolios for customization, CAA RADE V5 covers the broad line of both CATIA and ENOVIA V5 products.

C++ and Java are not the only programming languages available to customize V5 products. CAA RADE V5 allows the use of CAA V5 — CATIA VB Automation (CATIA Automation API referencing CATIA Journaling, VBScript and Java Script/HTML languages), which takes advantage of the V5 native architecture for the highest level of openness within CATIA V5, including both productivity and capability tools.

**Product Differentiators**

**Completeness:** CAA RADE V5 offers the ability to seamlessly integrate with both CATIA and ENOVIA V5 products.

**Unified V5 Architecture:** Rather than separately targeting CAD/CAM/CAE market or PDMII market, CAA RADE V5 offers a unique environment to develop highly integrated programs across all. Component reusability helps improve code quality and reduce development time.

**Scalability Across Different Platforms:** CAA RADE V5 tools provide a single build environment from which to generate run-time applications for both UNIX and Windows (NT, 2000, and XP). True cross-platform portability is assured.

**Full Process Coverage for Application Development:** CAA RADE V5 delivers a full featured set of products to cover the broad range of tasks associated with a world-class development process.
Hardware and Software Support Services

SmoothStart™ /Installation Services

SmoothStart/Installation Services will not be provided for these products.

Reference Information

For announcement details on the previous release of CAA RADE (V5.9), refer to Software Announcement 202-143, dated June 11, 2002.

Trademarks

SmoothStart is a trademark of International Business Machines Corporation in the United States or other countries or both.
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Other company, product, and service names may be trademarks or service marks of others.
CAA RADE V5 Products

CAA RADE V5 includes the following products and configurations:

CAA — Data Model Customizer Product (5693-DMC) — A component of CAA — C++ Extended Development Configuration (5691-CDC) and an optional add-on product (AOP) to CAA — C++ Base Development Configuration (5691-CDV), this product allows a developer to graphically extend any attributes and entities from ENOVIA product definition modeler, document management modeler, Engineering Change Order (ECO) and Engineering Change Request (ECR) modelers. Using the industry-standard Unified Modeling Language (UML) version of Rational Rose, an ENOVIA object model can be revised to include needed customer or company data. The product allows:
• Automatic generation of the UML diagram
• Creation and update of the resulting ENOVIA XML metadata dictionary
• Automatic generation of SQL orders to create database schemas
• Operate in both test mode for developers and true creation mode for DB administrators

Using the same design pattern, developers can also extend CATIA features from existing one or even create new features. This product delivers a graphical and interactive builder of state charts for CATIA dialog engine command.

Access to CAA — Data Model Customizer Product functions and commands are provided through the CAA — C++ Interactive Dashboard Product.

CAA — C++ Unit Test Manager Product (5693-CUT) — A component of 5691-CDC, and an optional AOP to 5691-CDV. CAA — Teamwork Release Management Configuration (5691-TRC) and CAA — Multi-Workspace Application Building Configuration (5691-ABC), this product facilitates test and quality control tasks critical to the efficient development of quality software. With this product, developers can:
• Check development compliance with design scenarios. Ensure regression-free modifications, scenarios pertinence, including debug/non-debug replay, replay environment concatenation, automatic result comparisons, and timeout performance replay.
• Find memory leaks to ensure leak-free code using memory management and run-time test replay.

Note: This feature is available on Windows NT® workstations running Rational Purify.

• Ensure full test coverage. All routines are tested during automatic test replays.

Note: This feature is available only under Windows NT, using Rational PureCoverage.

This product is perfectly adapted for testing applications in a V5 development project. Under Windows NT, its capabilities and command access are imbedmed within the CAA — C++ Interactive Dashboard product.

The automatic run-time batch test replay environment provides a way to eliminate run-time regressions for both current and future applications by capitalizing and replaying test objects on programming code during the lifecycle development. Features include debug/non-debug automatic replay, automatic result comparison, adjustable replay time limit, and publication of test results through text files compatible with standard Web or office tools.

Note: Rational PureCoverage and Rational Purify are products of Rational Software Corporation and must be ordered separately.

CAA — Java™ Unit Test Manager Product (5693-JUT) — This product is available as an optional AOP to the following:
• CAA — Java Base Development Configuration (5691-JDV)
• CAA — Teamwork Release Management Configuration (5691-TRC)
• CAA — Multi-Workspace Application Building Configuration (5691-ABC)

It facilitates test and quality control tasks critical to the efficient development of quality, regression-free, Java-based software. Features include:
• Automatic Java run-time batch test replay, with programmable time limits. Structured file results are generated for publication through Web or office tools such as Microsoft™ Excel.
• Automatic result comparison: Customize events and failure criteria within test objects.
• Automatic replay environment for Java: Under Windows NT, and using Rational PureCoverage, view actual code tested during the object tests replay, including lines of code and called methods.

In addition, its capabilities and commands can be imbedmed within the integrated CAA — Java Interactive Dashboard Product.

CAA — C++ Source Checker Product (5693-CSC) — Is a component of the CAA — C++ Extended Development Configuration (5691-CDC) and is available as an AOP to CAA — Teamwork Release Management (5691-TRC), CAA — Multi-Workspace Application Building (5691-ABC) and CAA — C++ Base Development (5691-CDV) configurations. It brings advanced C++ coding rule validation and test capabilities to the source stage of the application development cycle. Catching defects early ensures better stability, overall quality, and faster time to production for CAA RADE V5 applications. Features include:
• Analysis of memory-related bugs in areas including application memory management, call back mechanism usage, exception handling and C++ programming rules.

• Analyze usage of C++ null pointers.

• Memory leakage debugging for Object Modeler.

• Full-function C++ source parser.

• HTML-based report generator provides hyperlinks to faulty C++ source, allowing deep analysis from framework to faulty C++ source line and word.

It operates on Windows NT, 2000, XP, and UNIX® platforms.

CAA — Source Code Manager Product (5693-SCM) — Available only as an optional AOP to:

• CAA — C++ Base Development Configuration (5691-CDV)

• CAA — C++ Extended Development Configuration (5691-CDC)

• CAA — Java Base Development Configuration (5691-JDV)

• CAA — Teamwork Release Management Configuration (5691-TRC)

• CAA — Multi-Workspace Application Building Configuration (5691-ABC)

This product is a software-configuration-management tool for ENOVIA and CATIA V5 application development. It provides organizational and control tools for the management of teams developing source code on Windows NT and UNIX platforms. Features include:

• A permanent, secure data repository for source components.

• Collaborative and integrated code distribution.

• Integration with the CAA C++ and Java Dashboard products. Access all code management tasks through a common toolbar menu.

• High-return concurrent development within the same workspace: Simultaneous content changes are resolved. Product includes conflict management and workflow management tools ensuring source integrity between code components. These capabilities are widened across different development sites, thus reinforcing the concurrent development environment.

• Version and configuration control: To transparently track changes to each source file, directory, and component. Keep track of any workspace version; get access to a previous configuration.

• Multi-platform workspace management: Allows collaboration across UNIX and Windows NT platforms. Ensure serviceability and quality for application being delivered on both platforms.

• Scalability: From small teams to large development organizations; a LAN/WAN-enabled centralized repository with multi-base capabilities.

CAA — Teamwork Release Manager (TRM)

CAA — Teamwork Release Manager facilitates the control of complex software releases. Its client workbench provides an environment where IT and QA tasks can be scheduled and automated based on project, and available resources. These tasks span the whole range of development activities, including compile, link edit, code replay, and quality control. TRM includes tools that allow graphic visualization of the status of each task during development. Capable of prioritizing and distributing task assignments across the network, it reduces the overall time required to build the release.

TRM is a component of TRC and cannot be ordered separately.

CAA — C++ API Documentation Generator (CDG)

CAA — C++ API Documentation Generator seamlessly integrates with the CAA — Teamwork Release Manager product, allowing rapid generation of C++ API reference documentation with a single command. The generator produces a set of HTML files directly integrated in the V5 tree, composed of the framework list, interfaces, and classes list leading to the documentation page.

CDG is a component of the TRC and CDC configurations and cannot be ordered separately.

CAA — C++ Interactive Dashboard Product (CID) — Available as a component of the CDC and CDV configurations, CID provides a Rapid Application Development Environment on Windows NT for building C++ applications. It provides a single point access to the C++ development tools that support the full development cycle, from design and development through test, deployment, and maintenance. Its tight integration with Microsoft Visual Studio C++ makes it easy to learn and master. It provides a single point of access to all products delivered with CAA RADE V5.

While operating only on Windows NT, Windows® 2000, or Windows XP, CAA — C++ Interactive Dashboard Product allows automatic code building for UNIX platforms.

Using the same robust development methodology used by Dassault Systemes, the software development community can now take advantage of years of expertise in design, development, test, and release which goes into every CATIA and ENOVIA product.

Note: Microsoft Visual Studio C++ is a product of Microsoft Corporation, and must be purchased separately.

CAA — Multi-Workspace Application Builder Product (MAB) — Delivered as an integral component of all configurations, MAB provides a consistent and integrated environment in which to compile, link-edit, and build a V5 application, using the same methods and tools that Dassault Systemes uses to create its V5 products. Industry-standard compilers and linkers for languages such as C, C++ and Java are used with consistent processes and methods that are independent of the target platform. With its ability to handle multiple workspace compilation, link and run time creation, it provides a most efficient way to manage dependencies between separate workspaces.

Under Windows (NT, 2000, and XP), CAA — Multi-Workspace Application Builder Product capabilities and command access can be imbedded within the integrated Microsoft Visual C++ Studio, along with the CAA — C++ Unit Test Manager, creating a single integrated environment to write, compile, build, and test applications.

Fully supported on Windows (NT, 2000, and XP) and UNIX operating system platforms, CAA — Multi-Workspace Application Builder Product is accessible via command line commands through DOS on Windows NT and SHELL on UNIX.
CAA — Web Application Generator for Legacy Database Product (LWG) — An all-in-one application workbench, this product is a component of LDC. It supports the integration of product-centric information systems with other information systems through the ENOVIA Portal. The end user can now transparently access information in a customizable and easy-to-use Web-top environment.

Under Windows (NT, 2000, and XP), this integrated development environment allows consistent schema discovery of existing databases, generation of hierarchical data drivers for tree-browsing in ENOVIA Portal, and the generation of Web user interfaces.

Using its powerful Visual Data Editor, an existing production database can be analyzed to derive its schema (list of tables and views, columns, relationships, and constraints). Many popular databases are supported.

Other powerful functions include:
- The Visual Database Editor
- The HTML page builder
- The hierarchical data builder wizard
- Full text search database enabler wizard
- WebSphere® support

CAA — Java Interactive Dashboard Product (JID) — A component of the CAA — Java Base Development (JDV) Configuration that cannot be ordered separately, this product provides an integrated development environment for customizing the ENOVIA 3d com products and creating CAA-based Java applications for Windows NT and UNIX.

Under Windows (NT, 2000, and XP) and combined with the CAA — Multi-Workspace Application Builder Product, CAA — Java Unit Test Manager and CAA — Source Code Manager, it provides the ultimate high-technology environment to support large-scale Java application development with a high degree of security and industrial robustness.

It serves as a single, coordinated access point for other tools delivered with CAA RADE V5, and VisualAge® for Java.

Note: VisualAge for Java is a product of IBM Corporation, and must be purchased separately.

CAA RADE V5 Configurations

CAA — C++ Base Development Configuration (5691-CDV)

This configuration provides in one package the essential tools for implementing CAD/CAM/CAE/PDMII software applications. It integrates capabilities to design, implement, build, and test applications through an easy-to-use industry-standard user interface. It consists of:
- CAA — C++ Interactive Dashboard Product (CID)
- CAA — Multi-Workspace Application Builder Product (MAB)
- CAA — Data Model Customizer Product (DMC)
- CAA — Unit Test Manager Product (CUT)
- CAA — C++ Source Checker (CSC)
- CAA — C++ API Documentation Generator (CDG)

One AOP is available for this configuration:
- CAA — Source Code Manager (SCM)

CAA — Legacy Data Integration Development Configuration (5691-LDC)

This configuration provides tools for legacy system access, allowing easy connection to legacy data. It consists of:
- CAA — Multi-Workspace Application Builder Product (MAB)
- CAA — Web Application Generator for Legacy Database Product (LWG)

CAA — Java Base Development Configuration (5691-JDV)

This configuration provides in one package all the necessary tools for implementing CAD/CAM/CAE/PDMII Java software and ENOVIA V5 client applications. As with its C++ development counterpart, it integrates design, implement, build and test applications through an industry-standard user interface. It consists of:
- CAA — Java Interactive Dashboard Product (JID)
- CAA — Multi-Workspace Application Builder Product (MAB)

In addition, two AOPs are available for this configuration:
- CAA — Java Unit Test Manager (JUT)
- CAA — Source Code Manager (SCM)

CAA — Multi-Workspace Application Building Configuration (5691-ABC)

Intended for IT and QA departments, this configuration delivers the CAA — MAB product. Teamed with the CAA — Teamwork Release Management Configuration (5691-TRC), it provides sufficient IT & QA development tools to build the release independently of the product platform used by the developers. It consists of CAA — MAB.

AOPs available for this configuration:
- CAA — C++ Unit Test Manager (CUT)
- CAA — Java Unit Test Manager (JUT)
- CAA — C++ Source Checker (CSC)
- CAA — Source Code Manager (SCM)
Providing the interactive workbench necessary to build a CAA application release on a dedicated seat. Different strategies can be used to take full advantage of its features and functions:

- Used with other QA products and tools on a single development seat.
- Used with the CAA — Multi-Workspace Application Builder product, installed at different seats on different platforms. This allows IT & QA personnel to use distributed resources over the network to build their release. When further augmented with additional QA products (such as CAA — C++ Unit Test Manager or CAA — C++ Source Checker) the release process can operate at full scale over the network without disturbing developer resources.

Products included in this configuration:
- CAA — Teamwork Release Manager (TRM)
- CAA — C++ API Documentation Generator (CDG)
- CAA — Multi-Workspace Application Builder Product (MAB)

AOPs available for this configuration:
- CAA — C++ Unit Test Manager (CUT)
- CAA — Java Unit Test Manager (JUT)
- CAA — C++ Source Checker (CSC)
- CAA — Source Code Manager (SCM)

### Technical Information

**Hardware Requirements**

**Build-Time Hardware Requirements for CAA RADE V5.10**

Hardware requirements are identical to those for CATIA V5 or ENOVIA V5, 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.

**Software Requirements**

**Run-Time Software Requirements for CAA RADE V5 APIs**

Run-time software requirements for CAA RADE V5 APIs are the same as those described in the applicable CATIA V5 and ENOVIA V5 announcements except that applications developed with CAA — C++ Development Configuration (5691-CDC) will not run on Windows 95 or 98.

**Build-Time Software Requirements**

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

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The following products run on Windows NT, Windows 2000, Windows XP, and UNIX:

- CAA — JAVA Unit Test Manager (JUT)
- CAA — C++ Source Checker (CSC)
- CAA — C++ Unit Test Manager (CUT)
- CAA — Multi-Workspace Application Builder (MAB)
- CAA — C++ API Documentation Generator (CDG)
- CAA — Teamwork Release Manager (TRM)

The following product runs on Windows NT, Windows 2000, and UNIX:

- CAA — Source Code Manager (SCM)

The following products require Windows NT, Windows 2000, or Windows XP:

- CAA — JAVA Interactive Dashboard (JID)
- CAA — C++ Interactive Dashboard (CID)
- CAA — Data Model Customizer (DMC)
- CAA — Web Application Generator for Legacy Database (LWG)

### Software Requirements in a Windows NT or Windows 2000 Environment

The following components at the minimum indicated level are required:

- Microsoft Windows NT Workstation V4.0 (with Service Packs 4, 5, or 6a), Windows 2000 Professional or Windows XP Professional Edition, with the following components:
  - Microsoft Windows NT 4.0, Windows 2000, and Windows XP deliver an implementation of OpenGL libraries. These libraries may be updated depending on selected graphic adapter, when installing the graphic adapter and associated drivers. Recommendations related to driver levels based on certified configurations are available on the IBM PLM Solutions Web site:
  - Localized version of the operating system may be required when selected installation locale differs from Latin 1.
- Compiler: Microsoft Visual C++ V6 SP3 for C and C++

  When installing Microsoft Visual C++ Version 6, the Unicode option must be selected.

**Note:** V5.10 is the last Windows release to be supported on Windows 98 and Windows NT 4.0. The next Windows release to be available will only be supported on Windows 2000 and Windows XP.

### Build-Time Requirements in an AIX® Environment

The following components at the minimum indicated level are required:

- AIX V4.3.3
  - C Set++ for AIX Application Runtime at level 4.0.2 (C Set++ Application Runtime is shipped with AIX operating system).
- AIX XL FORTRAN Runtime Environment, V5.1.0 or V5.1.1 (5765-C11 or 5801-AAR-7070, Part No. 04L2123, depending on geographic area), or at level 7.1.0 (5765-E03, with PTF for APAR Y16351).
- OpenGL and GL3.2 Runtime Environment (delivered with AIX 4.3 operating system).
- Common Desktop Environment (CDE), delivered with the operating system.
- Compiler: IBM C and C++ for AIX Compilers V3.6.4.2 or 3.6.6 (ibmcxx). C++ Compiler 3.6.6 is shipped as the batch compiler with VisualAge C++ Professional for AIX V4 (5765-D52 or part number 3OL8178, product 5765-D52 feature 0001, depending on geographical area).

Build-Time Requirements in an HP-UX Environment

The following components at the minimum indicated level are required:

- HP-UX Version 11.0 ACE (Workstation Additional Core Enhancements for HP-UX 11.0 November, 1999), with the following components:
  - ANSI C++ Runtime Environment (aC++, at a minimum level of 3.30, delivered with the operating system)
  - HP Fortran 90 Runtime Environment (delivered with the operating system)
  - 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 differs from ISO code pages.
- C++ compiler aC++ A.03.31.

Note: With CATIA, and ENOVIA V5.10 onward, HP-UX V10 is no longer supported.

Build-Time Requirements in an SGI IRIX Environment

The following components at the minimum indicated level are required:

- IRIX 6.5.3m, including:
  - C, C++, and Fortran77 standard execution environment (delivered with the operating system)
  - OpenGL (delivered with IRIX execution environment)
  - IRIX Interactive Desktop (delivered with the operating system)
  - WorldView is required when selected installation locale differs from ISO-1
- C, C++, MIPSpro Compiler 7.2.1 (n32 ABI)

Build-Time Requirements in a Sun Solaris Environment

The following components at the minimum indicated level are required:

- Sun Solaris 2.6.0 Hardware 5/98 or higher, or Solaris 7, including:
- C and C++ runtime environment (delivered with the operating system).
- OpenGL runtime environment (delivered with the operating system).
- Fortran runtime environment is delivered with CATIA V5.
- CDE, delivered with the operating system.
- Localized version may be required when selected installation locale differs from ISO-1.
- C, C++, SUN WorkShop Compilers 5.2 (Forte 6 update 1).

Specific Software Requirements

Note: All CAA RADE V5 products are offered through orderable configurations or as add-ons. No product in these configurations can be ordered separately.

CAA — Data Model Customizer Product (DMC), CAA — Web Application Generator for Legacy Database Product (LWG) and CAA — C++ Interactive Dashboard Product (CID) require the prior installation of CAA — Multi-Workspace Application Builder Product (MAB).

• CAA — C++ Interactive Dashboard (CID) requires:
  - Microsoft Visual C++ 6.0 product SP3
  - Microsoft Internet Explorer (delivered with Windows NT 4.0, Windows 2000, or Windows XP), at minimum level 5.0
• CAA — Java Interactive Dashboard (JID) requires:
  - WebSphere Studio Application Developer Version 4.03
• CAA — Data Model Customizer (DMC) requires:
  - Microsoft Visual C++ 6.0 product SP3
  - Rational Rose 2000 Modeler Edition at minimum level
  - Microsoft Internet Explorer (delivered with Windows NT 4.0 or Windows 2000), at minimum level 5.0
• CAA — C++ Unit Test Manager (CUT) on Windows NT when running Automatic Run-time batch test replay, requires:
  - Mortice Kern Software (MKS) Toolkit for Developer V7.5 on Windows NT or Windows 2000
• CAA — C++ Unit Test Manager (CUT) on Windows NT, 2000, or XP when running Automatic Replay for memory management check, requires:
  - Rational Purity V6.5
• CAA — C++ Unit Test Manager (CUT) on Windows NT when running Automatic Replay for test coverage computation, requires:
  - Rational PureCoverage V6.5
• CAA — Java Unit Test Manager (JUT) on Windows NT when running Automatic Run-time batch test replay, requires:
  - MKS Toolkit for Developer V7.5 on Windows NT
• CAA — Source Code Manager on Windows NT or Windows 2000 when running Automatic Run-time batch test replay, requires:
  - Oracle 8.0.5 or 8.1.7 or DB2® V7.1 or 7.2
CAA — Teamwork Release Manager (TRM) requires:
- a UNIX machine as a server, wherever the product is installed (UNIX, Windows NT, Windows 2000, or Windows XP)
- Java 1.2.x runtime installed on machines used to run Teamwork user interface

Additional Software Requirements

Access to Online Documentation: Online documentation is delivered in HTML format. An HTML browser is required to access this documentation:
- In a UNIX environment (AIX, HP-UX, IRIX, Solaris)
  - Netscape Navigator at minimum level 4.75
- In a Windows environment, either:
  - Microsoft Internet Explorer at minimum level 5.0
  - Netscape Navigator at minimum level 4.75

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.

Prerequisites for the Licensing 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 licensing, though for nodelock there is no need to have the workstation connected to the network.

No additional software is required when accessing nodelock licenses.

IBM License Use Management (LUM), is required to serve concurrent licenses across a network. A LUM configuration file (i4ls.ini) is required on CAA RADE clients to access concurrent licenses from these servers.

IBM LUM is required at minimum level:
- 4.5.5, on UNIX or Windows NT license servers.
- 4.5.8, on Windows 2000 license servers.
- 4.6.0, when High Availability Licensing (HAL) offered by LUM is used. The recommended LUM level for HAL usage is 4.6.5.
- 4.6.2, on Windows 2000 Server and Advanced Server license servers.
- 4.6.4, on Windows XP license servers.

Note: LUM license servers do not support Windows 98.

LUM V4.6.0 is shipped with CATIA V5. Various levels of LUM may be obtained, at no charge, from:

http://www-3.ibm.com/software/is/lum/download.html

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 5.0. 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 de-installation makes use of Windows-compliant tools such as Install Shield, simplifying the task for those familiar with Windows procedures and concepts. These procedures have also been ported to the UNIX environment in order 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 APIs, by domain, including use cases, technical articles, and quick reference guides
  - Programming guides for architecture fundamentals (Portal, PPR Hub, Enterprise Architecture)
  - CAA code samples

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

Licensing Model

CAA RADE V5 delivers identical licensing mechanisms on UNIX and Windows environments, based on LUM. The following licensing principles apply:
- The use of a given CAA RADE V5 configuration requires a license for it. Licenses are acquired and released for the total configuration. The product within a configuration cannot be shared.
- In all cases, licenses are acquired at the beginning of the process, and released at its termination.

A customer application program being developed using CATIA or ENOVIA APIs will behave at run time with the very same licensing mechanism than as any other CATIA or ENOVIA interactive product. In this respect, the same
rules will remain. In particular, CATIA — Object Manager (CO1, COM or CO3) will be required for all 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 modes, either Nodelock or with concurrent usage of licenses 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 per configuration or product used, regardless of the number of processes. If the display changes, then an additional license is taken for the corresponding process.

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

**Planning Information**

**Direct Customer Support:** Direct customer support is provided under a PLM enhanced support contract. This fee service enhances the customer’s productivity by providing voice and electronic access to the PLM Support Center. The PLM help desk will answer questions pertaining to the installation, administration, use, and handling of suspected software defects for eligible products.

Additional information about the enhanced support contract and other available PLM services offerings is available by going to the PLM Web page at:


On the left side, select “Support.” Then select “The PLM Technical Support Web site” and then click on “Service and Support offerings.”

**Packaging:** Each shipment of CAA RADE V5.10 will include:

- Product CDs (LCD4-5345) containing:
  - Application code for all operating system platforms
  - Program Directory
- Licensed Program Specifications (GI11-2625)
- License Registration Memorandum (GI11-2624)
- Current User Memorandum (GI11-2634)
- Licensing IBM PLM Solutions Software (GI11-3619)

**Security, Auditability, and Control**

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

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**Ordering Information**

**Current Licensees**

Current licensees of CAA RADE V5 will receive this update from IBM Software Delivery and Fulfillment (SDF) automatically.

Shipment of this release is scheduled to be completed within 30 days of general availability.

**New Licensees**

Orders for new licenses will be accepted now.

Shipment will begin on the planned availability date.

**Basic License**

**New V5 Ordering Instructions for Custom Configurations:**

CAA RADE V5.9 introduced a new process for creating custom configurations.

In prior releases, add-on-products (AOPs) were represented using billable feature numbers assigned under each of the base configurations. With V5.9, and going forward, each AOP has been assigned a unique product ID (PID). This PID is linked to the base configuration by a no-charge “indicator” code.

Using the order configurator, 5693 AOPs under each base (5691) configuration should be selected to create a desired “custom configuration.” The order configurator will automatically assign the associated indicator codes and 5693 PIDs to be ordered for billing purposes. Indicator code and 5693 AOP must be ordered in the same quantity as the base configuration. 5693 PIDs cannot be ordered outside of a custom configuration.

The custom configuration definition will be available in the customer record under the 5691 configuration and will continue to be licensed as one entity. Licensing of custom configurations is unchanged with the new ordering process.

Effective with V5.9, and going forward, all new custom configurations should use the new ordering process (refer to the example below, for ordering a custom configuration using the new ordering process).

**Important:** This is still a complicated ordering process and it is imperative that you use the configurator to prepare your order.

**Migration/Upgrade Paths** Migration/upgrade paths for AOPs that were announced before V5.9 are now available for ordering under the 5693 AOP PIDs.

**Conversion of Customer Records** Migration paths are provided for converting customer records for custom configurations ordered through V5.8 to the new AOP model. Migration conversion feature numbers are available from the existing AOP feature number to the new 5693 AOP PIDs.

Existing customer records for custom configurations must be converted to the new AOP model before making any changes to the install record. All customer records should be converted to the new AOP model by June 11, 2003.

**Note:** The AOP feature numbers announced through V5.8 were withdrawn from marketing, effective August 23, 2002.
To order a basic license, specify:

- The desired configuration program number (for example, 5691-CDC)
- The desired AOP program number (for example, 5693-DMC)
- Feature number 9001 for asset registration, quantity 1
- The total number of users and desired payment method (for example, PLC1/ALC2, YLC3), using feature numbers as shown below
- Desired Workstation Platform feature numbers

**Note:** In addition, an order for the System Program Order (5628-CAA) must be placed with the appropriate feature numbers to ship the media.

1. Primary License Charge
2. Annual License Charge
3. Yearly License Charge

**New Product IDs**

- Configurations: There are no new configurations in CAA Rade V5.10.
- New Products: There are no new products in CAA Rade V5.10.

**Note:** For order quantities exceeding 250, contact your representative.

**Migrations** There are no new migration paths in V5.10.

For license quantities exceeding 250, contact your representative for additional information.

In addition to the program number and feature information, specify the feature numbers and total users for each intended workstation platform:

<table>
<thead>
<tr>
<th>Workstation Platform</th>
<th>Feature Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIX</td>
<td>5350</td>
</tr>
<tr>
<td>HP-UX</td>
<td>5351</td>
</tr>
<tr>
<td>SGI IRIX</td>
<td>5352</td>
</tr>
<tr>
<td>Sun Solaris</td>
<td>5354</td>
</tr>
<tr>
<td>Windows</td>
<td>5353</td>
</tr>
</tbody>
</table>

**Note:** The platform feature combined total should equal the total number of users across all solutions.

**Customization Option:** Feature number 3444 is being assigned to each new program number for use in customization of orders. It can be used to suppress shipment of media and documentation. This feature can be specified on the initial or MES order.

**Academic Program:** As of this announcement, no academic program is provided for CAA Rade V5.10. Contact your IBM representative or authorized IBM Business Partner for further information.

**Basic Machine-Readable Material**

**5628-CAA System Program Order (SPO)**

To ship machine-readable materials and publications and to register for future updates, one SPO (5628-CAA) must be placed in addition to the basic license orders.

Within the SPO, specify the media feature number for each of the workstation platforms you will be using, and the feature number of the Solution products you are ordering, based on the following tables:

<table>
<thead>
<tr>
<th>Workstation Platform</th>
<th>Media Feature Number</th>
<th>Distribution Medium</th>
</tr>
</thead>
<tbody>
<tr>
<td>All platforms</td>
<td>3410</td>
<td>CD-ROM</td>
</tr>
</tbody>
</table>

**Product Name**

- CAA — C++ Extended Development Configuration
- CAA — Legacy Data Integration Development Configuration
- CAA — Base Development Configuration
- CAA — Java Base Development Configuration
- CAA — Teamwork Release Management Configuration
- CAA — Multi-Workspace Application Building Configuration

**IBM Program Feature Numbers for New Products in V5.10:** There are no new products or configurations in CAA Rade V5.10.

**Process Charge:** The process charge for media has been withdrawn.

**Customization Options:** Under the 5628-CAA SPO, select the appropriate feature numbers to customize your order to specify the delivery options desired. These features can be specified on the initial or subsequent (MES) orders.

<table>
<thead>
<tr>
<th>Description</th>
<th>Feature Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial Shipments</td>
<td></td>
</tr>
<tr>
<td>Ship media only (suppresses initial shipment of documentation)</td>
<td>3470</td>
</tr>
<tr>
<td>Ship documentation only (suppresses initial shipment of media)</td>
<td>3471</td>
</tr>
<tr>
<td>Update Shipments</td>
<td></td>
</tr>
<tr>
<td>Ship Media updates only (suppresses update shipment of documentation)</td>
<td>3480</td>
</tr>
<tr>
<td>Ship documentation only (suppresses update shipment of media)</td>
<td>3481</td>
</tr>
<tr>
<td>Suppress updates (suppresses update shipment of media and documentation)</td>
<td>3482</td>
</tr>
<tr>
<td>Expedite Shipments</td>
<td></td>
</tr>
<tr>
<td>Local IBM office expedite (for IBM use only)</td>
<td>3445</td>
</tr>
<tr>
<td>Customer expedite process charge ($30 charge for each product)</td>
<td>3446</td>
</tr>
</tbody>
</table>

Expedite shipments will be processed to receive 72-hour delivery from the time IBM SDF receives the order. SDF will then ship the order via overnight air transportation.
Unlicensed Documentation: A registration memorandum, current user memorandum, and licensed program specification are supplied automatically with the basic machine-readable material.

Displayable Softcopy Publications: A program directory containing installation information is provided on CD in HTML format. User guides and other program reference materials are provided in softcopy only, in HTML format, on the product CDs. They are part of the basic machine-readable material and cannot be ordered separately.

These displayable manuals can be viewed using a standard Web browser. Terms and conditions for use of the machine-readable files are shipped with the files.

Subsequent updates (technical newsletters or revisions between releases) to the publications shipped with the product will be distributed to the user of record for as long as a license for this software remains in effect. A separate publication order or subscription is not needed.

Terms and Conditions

Licensing: IBM Customer Agreement (ICA)

Designated Machine: Not required

Variable Charges Apply: No

Installation License or Location License Applies: No

Usage Restriction Applies

Additional licenses must be obtained to extend use levels.

Use of CAA RADE V5 in the Provision of Third-Party Services and in the External Distribution of Complementary Applications

The following provisions (“Additional Supplemental Terms”) are in addition to the terms and conditions in the ICA or any equivalent agreement executed by you and IBM (the “Agreement”). You may not use the Program if you do not have a valid Agreement in place with IBM 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 granted 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 use the CAA RADE Configurations 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 end-user customers. A CAA Partnership Agreement with Dassault Systemes S.A. is required to do so.

Educational Allowance: Education allowance does not apply.

Volume Discount: Contact your IBM representative.

Warranted: Yes

Licensed Program Material Availability

- Restricted materials of IBM: None
- Non-restricted source materials: None
- Object code only (OCO): All

Testing Period: None

Program Services: Program Services for CAA RADE V5 will be available until discontinued by IBM upon six months’ written notice.

Customers may report problems against a given release of CAA RADE V5 for a limited time only. This service period ends fourteen months after the general availability of the second subsequent release of CAA RADE V5.

Therefore, the end of service date for CAA RADE V5.8 will be fourteen months after the general availability date of this release. For a list of all currently supported releases of CATIA and ENOVIA products, visit:


If you have not yet obtained an IBM common registration user id, visit:

http://www.ibm.com/registration/selfreg

Program Services offer a method of reporting code-related problems for ENOVIA Portal Solutions V5 licensed software products.

The preferred method for technical assistance is electronically through the PLM Web page at:


On the left side, select “Support.” Then select “The PLM Technical Support Web site.” Then click on the “Service requests, problem reporting” link, and “Fastpath to Submit a Problem Management Report (PMR).” When using the PMR option, communications will be either through the PMR or by e-mail, depending on country-specific guidelines.

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

Problems may also be reported by fax, e-mail, or conventional mail and will be responded to via the same medium used to submit the problem. IBM will respond to customer inquiries within two business days of e-mail or fax receipt and seven days of conventional mail receipt advising of the problem disposition.
Country-specific e-mail, fax, or conventional mail information can be found at the following Web site:


On the left side, select “Support.” Then select “The PLM Technical Support Web site” and click on “Service requests, problem reporting.” On the subsequent frame expand “Contracts, Other resources” and select “IBM PLM Warranty Support contacts as an alternative to this site.”

If the problem reported is not known to be a code-related problem, the customer will be informed that IBM will continue to work on it provided the customer has an enhanced support contract.

Additional information about the enhanced support contract and other available PLM services offerings are available by going to the PLM Web page at:


On the left side, select “Support.” Then select “The PLM Technical Support Web site.” Then click on “Service and Support offerings” and on the next frame expand “Support Offerings.” Contact your IBM PLM representative or authorized IBM Business Partner for more information.

Preventive Service is delivered through the next release of CAA RADE V5. The new release will also include corrections to problems, depending on the time of their submission and their severity.

Corrective Service for CAA RADE V5 releases is delivered through “Service Packs” on a regular basis. A Service Pack includes corrections for Severity 1 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. No individual corrections will be delivered between two Service Packs. No update of online documentation will be provided through Service Packs.

Customers may request a correction via a Service Pack for Severity 1 problems. A Severity 1 problem is defined as:

- A problem stopping production — This means the customer is already using the level for which the customer requests a fix in a production environment.
- A problem preventing migration — In this case, the customer must provide the migration plan.
- A problem halting testing of a given level — In this case, a fix will allow the customer to continue the testing.
- Installation problem — A problem which prevents the customer from installing or using the product.
- Regression — Problems reported as regressions may be due to an operation which 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, and true regressions will be handled as Severity 1 problems.

Requests for corrections to a given release of CAA RADE V5 may be made up to 10 months after the second subsequent release of CAA RADE V5 becomes generally available. After that date, no new Service Packs will be built for that release. This final Service Pack will still be available for ordering on CD-ROM via the IBM Support Centers for the duration of the service period of each release. (This service period ends 14 months after the general availability of the second subsequent release of CAA RADE V5.)

With the availability of this release, the end of corrective service date for CAA RADE V5.8 will be 10 months after the general availability date of this release; the end-of-service (EOS) date for CAA RADE V5.8 will be 14 months after the general availability date of this release.

For help guides and information on education, go to the PLM Web page at:


On the left side, select “Education.”

IBM Operational Support Services — Support Line: No
Other Support: IBM Support Center

Prices

Prices are unaffected by this announcement. For details, contact your IBM representative.
Order Now

Use Priority/Reference Code: YE001

Phone: 800-IBM-CALL
Fax: 800-2IBM-FAX
Internet: ibm__direct@vnet.ibm.com
Mail: IBM Atlanta Sales Center
Debt. YE001
P.O. Box 2690
Atlanta, GA 30301-2690

You can also contact your local IBM representative. To identify a representative, call 800-IBM-4YOU.

Note: Shipments will begin after the planned availability date.

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