BPA Delivery 7 for V5.19 delivers rapid return on investment with increased interoperability and extended business process coverage

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At a glance

Business Process Accelerators (BPA) Delivery 7 for V5.19 extends the BPA portfolio with four new BPAs, increasing business process coverage and interoperability. The overall focus of BPAs is on rapid implementation and return on investment, often in a matter of weeks. This new release also benefits from ongoing refinements and enhancements, incorporating feedback from user experiences.

BPAs provide the following benefits:

• Achieves faster return on investment, predictable success, reduced risk, and increased business flexibility
• Saves time and reduces costs to get implementations on a safe and fast track while achieving the predicted result
• Reduces the need for internally authored applications, reducing cost and freeing resources for innovative deployment
• Accelerates the implementation of business process improvement initiatives
• Includes fully supported software benefits from continuous enrichment and release updates

Overview

Business Process Accelerators (BPA) Delivery 7 for V5.19 marks a new milestone in Dassault Systemes BPA portfolio by introducing four new BPAs and enhancing a number of existing BPAs.

BPA Delivery 7 for V5.19 is a set of proven solutions for the rapid implementation of improved business processes, enabling companies to achieve return on investment in a shorter timescale. BPAs are easily implemented and allow customers to quickly deliver increased productivity and profitability.

BPA Delivery 7 for V5.19 addresses many challenges through systems engineering, industry business processes, interoperability and complex collaboration.

In addition to enhancements to existing products, this release delivers new capabilities in integrated creation and management of technical documentation, process management and compliance with Advanced Product Quality Planning (APQP), realistic human simulation in a production environment.
The four new BPAs in V5.7 include:

- Advanced Product Quality Planning (5672-AQ9)
- Animation Exporter (5672-AE9)
- 3DSmartDocCreator Client (5672-TC9)
- 3DSmartDocCreator Server (5672-TS9)

### Key prerequisites

BPA V5.7 runs on selected versions of:

- Microsoft(TM) Windows(R)
- IBM(R) AIX(R)
- Hewlett Packard HP-UX
- Sun Solaris

### Planned availability date

August 14, 2009

### Description

**BPAs for industry business processes**

**CATIA V5 Automotive Extensions/Vehicle Architecture (CAVA) BPAs**

CAVA helps to ensure the compliance of a car design to national and international standards regarding vehicle architecture, vision, wipers, manikin, safety, and other automotive design tasks. Each function contains the different values and settings determined by local authorities and described in standards like:

- Economic Commission for Europe (ECE)
- Environmental Working Group (EWG)
- Society of Automotive Engineers (SAE)
- Federal Motor Vehicle Safety Standards (FMVSS)
- And others

All CAVA functions are implemented seamlessly within CATIA V5 for easy access to the feature tree, enabling full associativity resulting from geometry modifications, such as car body parts or references points. CAVA works seamlessly with CATIA V5, the industry-standard for design excellence. Current automakers must comply with multiple government-regulated standards and norms, and CAVA ensures legal conformity of the car architecture during the entire creation process, allowing companies to get designs right the first time.

CAVA was developed in partnership with a number of international automotive OEMs.

There are five BPAs available in the CATIA V5 Automotive Extensions/Vehicle Architecture:

- CATIA V5 Automotive Extensions/Vehicle Architecture - Manikin (5672-CM9)
- CATIA V5 Automotive Extensions/Vehicle Architecture - Overall Vehicle Architecture (5672-CO9)
- CATIA V5 Automotive Extensions/Vehicle Architecture - Safety (5672-CA9)
- CATIA V5 Automotive Extensions/Vehicle Architecture - Vision (5672-CV9)
CATIA V5 Automotive Extensions/Vehicle Architecture - Wiper (5672-CW9)

There is also a configuration associated with CAVA. The CAVA-All configuration offers a complete set of easy to use features covering rear view mirror, viewing fields, security belts, under floor clearances, lamp positions, pedestrian protection, and much more. Each feature contains different values and settings that are based on pre-configured standards and built into CAVA and can easily be administered and extended to company-specific settings. The configuration is the CATIA V5 Automotive Extensions/Vehicle Architecture Configuration, which contains all the functionality of the five CAVA BPAs (5672-CO9, 5672-CV9, 5672-CM9, 5672-CA9, and 5672-CW9).

Flexible PCB Automation BPA (5672-FP9)

This BPA accelerates the creation of a flexible Printed Circuit Board (PCB) shape. It provides easy modeling and simulation of the flexible PCB within a virtual mock-up of the whole product, allows clash avoidance, mounting process testing, assembly time reduction, and enables users to calculate measurements to help reduce package size and weight. The Flexible PCB BPA update covers the full design process of flexible printed circuit board. Thanks to additional capabilities in the Electronic Design Automation (EDA) interface, CATIA designers can now import modifications made in the EDA system and thus integrate continuous design changes. By providing associativity between mechanical and electrical data during the end-to-end design processes, this BPA reduces time to market and costs. Flexible PCB Automation is based on CATIA V5.

Progressive Die Strip Layout Design BPA (5672-SL9)

This BPA delivers a dedicated environment to design a fully associative (or optionally non-associative) Strip Layout for a Progressive Die process. It covers all the steps of the definition of a complete Strip Layout starting from a part either designed with the CATIA V5 Sheetmetal Design application or designed with CATIA V5 Part Design, or with any part coming from an IGES or STEP file. The rapidly designed Strip Layout will be fully associative with the possibility to modify any needed parameter when required. The productivity of the Strip Layout designer will be increased thanks to the ease and efficiency of defining cutting punches.

This BPA offers the possibility to replace the part to be produced with a new revision. As a result, it delivers the Strip Layout with holes and the unfolded bends at the different stations following designer choice and the required contours for cutting punches. Automatically additional information is computed, such as the Punch Force needed for trimming and the utilization ratio of the metal.

PowerFeature BPA (5672-PF9)

This accelerator standardizes and automates the Product Lifecycle Management (PLM) process, enabling a full feature-based part design strategy across design, process planning, and manufacturing to quality control across the entire supply chain. This paperless flow of information reduces errors and increases the productivity of the overall process. The Power® Feature is dedicated to departments who manage parts containing a large number of holes/drillings, such as the power train department. Developed through a successful collaboration between the auto industries, the Power Feature BPA enhances key business processes and is based on CATIA V5.

Weight&Balance for ENOVIA V5 BPA (5672-WC9)

This BPA allows the computation and efficient management of the mass properties of a digital mock-up, specifically for aerospace and automotive companies:

- Mass
- Center of gravity
- Moment and product of Inertia
- Mass distribution
• Material distribution
• Mass type distribution
• Other computations such as cost roll-up

Users can easily adjust it to fit specific needs; such as comparing targeted values, imposing values on purchased parts, and computing total product cost. Weight&Balance for ENOVIA V5 (5672-WC9) helps to compute and manage the mass properties throughout the product life cycle; to accelerate computation, improve reliability, monitor weight evolution throughout the product's lifecycle, and account for geometry not modeled; to manage mass types, precision, cost, and materials. Weight&Balance for ENOVIA V5 (5672-WC9) also lends insight to center of gravity, moment and product of Inertia. This BPA is based on ENOVIA V5 and can process both CATIA V4 and CATIA V5 documents.

**Kinematics Merging Tools BPA (5672-CH9)**
This application encapsulates tools dedicated to kinematics design in a unique workbench. It can be used from program beginning until the architecture is selected and the functional design is frozen. It provides designers with useful tools and practices to capitalize and reuse knowledge, realize kinematics simulations quickly and easily, manage iteration steps and enable concurrent engineering and collaboration. It reduces conceptual design development time and improves simultaneous collaboration at the upstream phase (fast iteration loop, and alternative studies).

**Virtual Die Tryout BPA (5672-DI9)**
This BPA focuses on the verification phase for die design. Virtual Die Tryout allows collision checking to be done by every die designer without special simulation knowledge. In addition, the realistic motion of cam units and a complete collision check of the die can accelerate the commissioning of the die.

The option to store the resulting motion curves as function of the slide angle only (Kinematic Relations) simplifies further application disposal in process simulation.

**Advanced Product Quality Planning BPA (5672-AQ9)**
This BPA is a Web-based quality planning system that enables a company to leverage the APQP process in order to drive quality improvements into production design and manufacturing. AQ9 improves process efficiency and tracking, and reduces the administrative burden required to comply with the APQP process.

**BPAs for systems engineering**

**Collaborative Systems Engineering (CSE) BPAs**
Collaborative Systems Engineering (CSE) includes four different BPAs.

CSE enables companies to master their complex systems process development from needs identification through final product verification. It supports the systems engineering process leveraging PLM native foundations to formalize, control and share system development objectives, to analyze requirement changes and propagate impacts.

CSE facilitates the systems engineering traceability cross disciplines and cross-domains from needs capture until final product validation. It also provides a complete environment for requirements engineering. In this release, CSE supports a data exchange norm defining data exchange between requirements management tools (Requirements Interchange Format).

CSE is based on ENOVIA SmarTeam.
The BPAs associated with CSE are:

- Composite Document Generation (5672-CD9)
- Collaborative Systems Lifecycle Management & Traceability (CS9) - available only as an included product in configuration
- Requirements Management (RM9) - available only as an included product in configuration
- Requirements XML Edition (RX9) - available only as an included product in configuration

There are also two configurations associated with the Collaborative Systems Engineering BPA:

- Collaborative Systems Engineering Configuration (5672-CE9)
- Collaborative Systems Engineering Premium Configuration (5672-CP9)

The Collaborative Systems Engineering Configuration (5672-CE9) is designed to meet the specific needs of systems engineers. It enables companies to integrate product design with product definition, ensuring "right to market" delivery through requirements management, and traceability between final product validation and initial customer expectations.

The Collaborative Systems Engineering Configuration (5672-CE9) is composed of these BPA products:

- Composite Document Generation (5672-CD9)
- Collaborative Systems Lifecycle Management & Traceability (CS9) - available only as an included product in configuration
- Requirements Management (RM9) - available only as an included product in configuration

The Collaborative Systems Engineering Premium Configuration (5672-CP9) is designed to meet the specific needs of systems engineers. It enables companies to integrate product design with product definition, ensuring "right to market" delivery through traceability between final product validation and initial customer expectations. This configuration provides systems engineers with a full WYSIWYG environment in order to engineer and author requirements as well as test objects (test plans and test procedures).

The Collaborative Systems Engineering Premium Configuration (5672-CP9) is composed of these BPA products:

- Composite Document Generation (5672-CD9)
- Collaborative Systems Lifecycle Management & Traceability (CS9) - available only as an included product in configuration
- Requirements Management (RM9) - available only as an included product in configuration
- Requirements XML Edition (RX9) - available only as an included product in configuration

**BPA Dysfunctional Analysis & Simulation BPA (5672-SD9)**

This BPA enables the management of all aspects of safety assessment and simulation early in the design phases of all safety levels required by certification authorities and enterprise standards.

The introduction of the Dysfunctional Analysis & Simulation (5672-SD9) BPA for supporting the design and safety process, gives the designer a way to perform validation/verification-analysis. It also provides the safety engineer with new means for performing their work more effectively during the system design phase. Dysfunctional Analysis & Simulation (5672-SD9) allows design engineers to formalize system safety requirements and to validate them during each phase of the development process. This is accomplished by building a Formal System Model in
AltaRica Language from System requirements, simulating dysfunctional behaviors during the design phase and automatically generating dependability studies in order to perform dependability reports for certification authorities. The Dysfunctional Analysis & Simulation (5672-SD9) BPA is a stand-alone application.

Aralia Fault Tree Analyzer BPA (5672-FT9)

Widely used in systems reliability and safety studies, the Aralia Fault Tree Analyzer can focus on an event of importance, such as a critical safety issue, and work to minimize its occurrence or consequence. Fault tree analyses are performed using a top-down approach. Starting with a top-level event, the Aralia Fault Tree Analyzer works down, evaluating every contributing event that may lead to the occurrence of the top-level event. The resulting fault tree diagram is a graphical representation of the chain of events in your system or process, built using events and logical gate configurations. Then, the probability of the top-level event can be computed using mathematical techniques.

The Aralia Fault Tree Analyzer BPA is a user-friendly graphical environment to design and to evaluate fault trees. The Aralia Fault Tree Analyzer BPA is powered by the Aralia calculation engine (based on Binary Decision Diagrams technology); and it provides a complete set of features for safety analysts to use. It proposes various typical assessment sequences. Results are displayed into ad-hoc windows and a console mode to talk to the calculation engine via its command line interface is available. Import/Export commands are also available for data post/pre-processing in Microsoft® Excel. The Aralia Fault Tree Analyzer (5672-FT9) BPA is a stand-alone application.

BPAs for collaborative business processes

SmartDX BPA (5672-SX9)

This BPA provides capabilities for an automotive or aerospace supplier to accomplish data exchange according to requirements of different OEMs, as well as tracking them. It is a flexible, scalable application fully embedded in ENOVIA SmarTeam. The client and server side subdivision ensures an efficient and extensive set up of the export data.

SmartProject BPA (5672-SP9)

SmartProject is an out-of-the-box yet customizable, collaborative program management solution based on ENOVIA SmarTeam. It enables storage and management of vast amounts of program-related data, including multiple projects, timelines, tasks, deliverables and resources. It tightly connects them to product and process-related knowledge, such as workflow processes, documents and bills of material (BOMs).

SmartProject supports the management of and collaboration on project data across large and distributed product development teams, and reduces projects' duration and cost. This solution enables the reuse of successful projects and increases product development efficiency. SmartProject provides tools to manage multiple projects and tasks together within their deliverables, and it combines all product knowledge in a single environment.

CATIA Data Security BPA (5672-DS9)

Corporate IT systems can internally protect data with access control; however, it is hard to protect data once it is sent outside the company. CATIA data is critical, in that it not only contains geometry, but also much of a company’s expertise and it is necessary to share it across the extended enterprise.

The CATIA Data Security (DS9) BPA provides encryption capabilities and supports the data exchange process. Data is encrypted at the OEM site, while at the supplier site the application is "hidden". Supplier access to the data is only available by using keys supplied by the OEM. The company’s expertise remains protected and restricted to only those suppliers permitted to use it.
**BPAs for interoperability and administration**

**ENOVIA SmarTeam/SAP Adaptor BPA (5672-SS9)**
This BPA provides an extremely flexible connectivity across the PLM and enterprise resource planning (ERP) domains. The solution provides an online integration between ENOVIA SmarTeam and SAP, which creates complete customer-process coverage, ensuring a tightly knit product development platform.

The solution allows users to create, find, or display a SAP project from within ENOVIA SmarTeam. It also enables users to create and modify Document Information Records, Document Structures, Engineering Change Masters, Material Masters and BOMs in either background or dialog (GUI) mode. Capabilities include sending a file into the SAP vault and linking it to a Material Master as well as creating and updating a BOM in ENOVIA SmarTeam, and visualizing it in SAP.

All Material Master Items include classification. The integration configuration allows copy-paste of parameters, making it simpler to search and call any Remote Function Call (RFC) module or transaction, as well as processing document-lists and versions. This solution, built on ENOVIA SmarTeam product, includes over 200 Toolkit functions.

**Product Structure Synchronization for VPM V4 BPA (5672-PS9)**
This BPA extends collaborative engineering in CATIA V5 and ENOVIA VPM V4 environments by allowing users to create and synchronize product design work-packages from an exploded product structure, update it using CATIA V5, and store it in VPM.

Product Structure Synchronization for VPM V4 allows users to have snapshot views of assemblies temporarily disconnected from BOM-digital mock-up. Users can define product structures that contain specific data not saved in VPM. 5672-PS9 facilitates parallel downstream work, such as drawing creation, kinematics studies, and the like. This BPA was developed as a joint project with PSA Peugeot Citroen.

**Animation Importer BPA (5672-AI9)**
A major challenge during the design phase of product development is the verification of product behavior in its final environment. 3DVIA is an answer to that issue since it enables the designers to create a highly interactive 3D model of the product and its environment.

Animation Importer takes any 3D model coming from CATIA or DELMIA and imports the model (based on 3DXML format), the position, and kinematics to 3DVIA.

**Animation Exporter BPA (5672-AE9)**
Animation Exporter contains a set of functions, running both in 3DVIA and in DELMIA. With the Animation Exporter BPA, true human movements recorded by a Motion Capture System (MCS) can be used in DELMIA. Complementing the standard DELMIA character animation features, Animation Exporter allows users to include the representation of real-life human movements into manufacturing simulations.

The Animation Mapping functions are extremely fast and exact, and there is no need to redesign the animations.

**3D Tribon Importer BPA (5672-CT9)**
Tribon is a family of programs that creates and references a common set of databases containing the design details of a ship. Together, these databases can depict a 3D model of the ship, with embedded information for all of the parts of the design, from ship structural elements to pipe segments, to equipment.

This BPA acts as an interface between Tribon and CATIA V5 or DELMIA V5. The interface is used to import any hull structure from Tribon M3 to CATIA or DELMIA.
Based on XML format, the application reads the XML and creates the appropriate geometry in CATIA V5 or DELMIA V5. The user can then add features of CATIA workbenches or launch simulations in DELMIA.

**3DSmartDocCreator Client BPA (5672-TC9)**

3DSmartDocCreator Client allows the 3DVIA Composer user to manage and store 3D documentation created with 3DVIA Composer in ENOVIA SmarTeam. Using 3DSmartDocCreator capabilities you can create, update, and manage the lifecycle of 3DVIA Composer projects. Geometries and Meta information can easily be transferred from ENOVIA SmarTeam to 3DVIA Composer Projects.

The 3DSmartDocCreator BPA is a flexible, scalable application fully embedded in ENOVIA SmarTeam. The client and server side subdivision ensures an efficient and extensive project creation and update.

**3DSmartDocCreator Server BPA (5672-TS9)**

3DSmartDocCreator Server provides capabilities to use important ENOVIA SmarTeam features to create and manage a document's lifecycle and change objects. Using 3DSmartDocCreator you can access files, send mail, and do string conversions.

3DSmartDocCreator Server enables life cycle driven automatic 3D conversion. 3DVIA Composer smgXML and smgGeom files are directly created through first checkin and release. All existing 3D and related Item information is mapped into the created files. 3DSmartDocCreator Server creates output files through 3DVIA Sync, which provides automated creation of all 3DVIA Sync supported output formats, such as JPEG, SVG, HTML, and the like.

3DSmartDocCreator Server is a flexible, scalable application fully supporting 3DVIA Sync Integration and ENOVIA SmarTeam. The client and server side subdivision ensures an efficient and extensive project creation and update.

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**Accessibility by people with disabilities**

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

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**Product positioning**

A BPA is a flexible software asset that encapsulates a given business process. Each BPA product is a certified standard that is supported, maintained and updated. This enables customers to implement and adapt industry solutions to meet their specific needs, without the cost of tailor-made software. Business process accelerators are the result of working hand-in-hand with leading industry customers, through service agreements, and then repackaging this experience as deployable products.

BPAs combine market-leading industry knowledge with proven PLM solutions to allow customers to gain rapid return on investment (ROI).

BPAs provide the following industrial coverage:

- **Automotive**
  - CATIA V5 Automotive Extensions/Vehicle Architecture - Manikin (CM9)
  - CATIA V5 Automotive Extensions/Vehicle Architecture - Overall Vehicle Architecture (CO9)
  - CATIA V5 Automotive Extensions/Vehicle Architecture - Safety (CA9)
  - CATIA V5 Automotive Extensions/Vehicle Architecture - Vision (CV9)
  - CATIA V5 Automotive Extensions/Vehicle Architecture - Wiper (CW9)
  - Power Feature (PF9)
- Flexible PCB Automation (FP9)
- Weight&Balance for ENOVIA V5 (WC9)
- Virtual Die Tryout (DI9)

**Aerospace**
- Power Feature (PF9)
- Flexible PCB Automation (FP9)
- Weight&Balance for ENOVIA V5 (WC9)

**High tech and electronics**
- Power Feature (PF9)
- Flexible PCB Automation (FP9)
- Virtual Die Tryout (DI9)

**Industrial equipment**
- Power Feature (PF9)
- Weight&Balance for ENOVIA V5 (WC9)

**Consumer goods**
- Power Feature (PF9)
- Weight&Balance for ENOVIA V5 (WC9)

**Consumer package goods** - Weight&Balance for ENOVIA V5 (WC9)

**Shipbuilding**
- Power Feature (PF9)
- Weight&Balance for ENOVIA V5 (WC9)
- 3D Tribon Importer (CT9)
- Virtual Die Tryout (DI9)

**Cross industry**
- Product Structure Synchronization for VPM V4 (PS9)
- Progressive Die Strip Layout Design (SL9)
- Collaborative Systems Lifecycle Management and Traceability (CS9)
- Composite Document Generation (CD9)
- Kinematics Merging Tools (CH9)
- Requirements Management (RM9)
- Requirements XML Edition (RX9)
- SmartProject (SP9)
- Dysfunctional Analysis & Simulation (SD9)
- ENOVIA SmarTeam/ SAP Adaptor (SS9)
- SmartDX (SX9)
- SmartDX Client (CX9)
- CATIA Data Security (DS9)
- Aralia Fault Tree Analyzer (FT9)
- Animation Importer (AI9)
- Animation Exporter (AE9)
- Advanced Product Quality Planning (AQ9)
- 3DSmartDocCreator Client (TC9)
- 3DSmartDocCreator Server (TS9)

BPAs that deliver PLM solutions include:

**CATIA V5**
- CATIA V5 Automotive Extensions/Vehicle Architecture - Manikin (CM9)
- CATIA V5 Automotive Extensions/Vehicle Architecture - Overall Vehicle Architecture (CO9)
- CATIA V5 Automotive Extensions/Vehicle Architecture - Safety (CA9)
- CATIA V5 Automotive Extensions/Vehicle Architecture - Vision (CV9)
- CATIA V5 Automotive Extensions/Vehicle Architecture - Wiper (CW9)
- Power Feature (PF9)
- Product Structure Synchronization for VPM V4 (PS9)
- Progressive Die Strip Layout Design (SL9)
- Flexible PCB Automation (FP9)
- Weight&Balance for ENOVIA V5 (WC9)
- CATIA Data Security (DS9)
- Kinematics Merging Tools (CH9)
- 3D Tribon Importer (CT9)
- Animation Importer (AI9)
- Animation Exporter (AE9)

**ENOVIA SmarTeam**
- Collaborative Systems Lifecycle Management and Traceability (CS9)
- Composite Document Generation (CD9)
- Requirements Management (RM9)
- Requirements XML Edition (RX9)
- SmartProject (SP9)
- ENOVIA SmarTeam/ SAP Adaptor (SS9)
- SmartDX (SX9)
- SmartDX Client (CX9)
- Advanced Product Quality Planning (AQ9)
- 3DSmartDocCreator Client (TC9)
- 3DSmartDocCreator Server (TS9)

**ENOVIA VPM** - Product Structure Synchronization for VPM V4 (PS9)

**ENOVIA VPLM** - Weight&Balance for ENOVIA V5 (WC9)

**3DVIA**
- Animation Importer (AI9)
- Animation Exporter (AE9)
- 3DSmartDocCreator Client (TC9)
- 3DSmartDocCreator Server (TS9)

**DELMIA**
- Virtual Die Tryout (DI9)
- CATIA Data Security (DS9)
- Animation Importer (AI9)
- Animation Exporter (AE9)

**Stand-alone**
- Dysfunctional Analysis & Simulation (SD9)
- Aralia Fault Tree Analyzer (FT9)

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**Hardware and software support services**

**SmoothStart/installation services**

IBM® SmoothStart™ and Installation Services are not provided.
Reference information

For information about CATIA V5.19, refer to Software Announcement ZP08-0369, dated September 23, 2008.

For information about ENOVIA VPLM V5.19, refer to Software Announcement ZP08-0370, dated September 23, 2008.

For information about CAA RADE V5.19, refer to Software Announcement ZP08-0371, dated September 23, 2008.

For information about DELMIA V5.19, refer to Software Announcement ZP08-0422, dated September 23, 2008.

For information about ENOVIA SmarTeam V5.19, refer to Software Announcement ZP08-0404, dated September 23, 2008.

For information about BPA V5.6 AI, refer to Software Announcement ZP08-0603, dated December 9, 2008.

National language support and available languages

All BPAs are available in English. Some BPAs are also available in other languages.

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New BPA V5.7 products

5672-AE9  Animation Exporter*
5672-AQ9  Advanced Product Quality Planning*
5672-EC9  3DSmartDocCreator Client*
5672-TC9  3DSmartDocCreator Server*

* New in this release.

BPA configurations

5672-CL9  CATIA V5 Automotive Extensions/Vehicle Architecture Configuration
5672-CE9  Collaborative Systems Engineering Configuration
5672-CP9  Collaborative Systems Engineering Premium Configuration

BPA V5.7 products

5672-CM9  CATIA V5 Automotive Extensions/Vehicle Architecture - Manikin
5672-CO9  CATIA V5 Automotive Extensions/Vehicle Architecture - Overall Vehicle Architecture
5672-CA9  CATIA V5 Automotive Extensions/Vehicle Architecture - Safety
5672-CV9  CATIA V5 Automotive Extensions/Vehicle Architecture - Vision
5672-CW9  CATIA V5 Automotive Extensions/Vehicle Architecture - Wiper
5672-PF9  Power Feature
5672-PS9  Product Structure Synchronization for VPM V4
5672-SL9  Progressive Die Strip Layout Design
5672-CD9  Composite Document Generation
5672-FP9  Flexible PCB Automation
5672-SP9  SmartProject
5672-SD9  Dysfunctional Analysis & Simulation
5672-SS9  ENOVIA SmarTeam/ SAP Adaptor
5672-SX9  SmartDX
5672-CX9  SmartDX Client
5672-WC9  Weight&Balance for ENOVIA V5
5672-DS9  CATIA Data Security
5672-CH9  Kinematics Merging Tools**
5672-AI9  Animation Importer
5672-CT9  3D Tribon Importer
5672-DI9  Virtual Die Tryout
5672-FT9  Aralia Fault Tree Analyzer

** Renamed in this release

Withdrawn products
There are no products withdrawn in this release.

Renamed products
The following product is renamed as indicated. The product identifiers are unchanged.

Product identifier  Old name
5672-CH9  Chassis Suspension Simulation Tool

New name
5672-CH9  Kinematics Merging Tools

New and enhanced V5.7 products

This release introduces four new BPA products.

5672-AE9  Animation Exporter
5672-AQ9  Advanced Product Quality Planning
5672-TC9  3DSmartDocCreator Client
5672-TC9  3DSmartDocCreator Server
Withdrawn products

There are no products withdrawn in this release.

BPA Configuration Matrix

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*New in Delivery 7 for V5.19
**Shareable to CATIA and/or ENOVIA configurations

New V5.7 products

3DSmartDocCreator Client (5672-TC9)

Product highlights

The new 3DSmartDocCreator Client BPA allows:

- Direct creation of 3DVIA Composer projects based on existing ENOVIA SmarTeam objects
  - 3D representations from CATIA, ProE, SolidWorks and the like
  - Item objects
- Life cycle and link management
  - Used 3D links
  - Used Item links
- Dependent document links
- Created content links
- Mapping of 3D and Item meta information to the corresponding nodes in the 3DVIA Composer project structure
- Comparison of relevant information in existing projects related to design and item changes
- Use of several new API plug-ins for customer specific customization

**Key customer benefits**

- **Quality**
  - In process 3DVIA Composer project management
  - Technical illustrations directly from 3D
  - Revision based updating
- **Cost** - no additional illustration creation needed
- **Time saving**
  - Automatic project creation - no conversion time required on client site
  - Parallel project start - documentation just-in-time
- **Usability**
  - Easy to use
  - Fully integrated in ENOVIA SmarTeam
  - Extendable
- **Based on several customer requirements** - 3DSmartDocCreator Client is developed as a practice-proven related solution.
- **Flexible, scalable, and process integrated.**

**Product detailed description**

3DSmartDocCreator Client functions include the ability to:

- Create new 3DVIA Composer projects
  - Select the 3D Assembly by browsing or searching.
  - Drag and drop additional 3D Assemblies to the 3DVIA Composer project.
  - Select an assembly will preliminarily include all subassemblies, parts, and linked objects.
  - Store the new project to an ENOVIA SmarTeam folder or desktop - Documents need to be converted into 3DVIA format using 3DSmartDocCreator Server (TS9) (batching 3DVIA Sync)
- After a Design Change, the user can make:
  - All changes can be automatically updated in the project.
  - Single selection and replacement through link list or structure compare.
- After an Item Change, the user can make:
  - All changes that can automatically be updated in the project.
  - Single selection and replacement through link list or structure compare.
- Create technical illustrations through jobs
  - Select output format (JPEG, SVG, CGR, and the like).
  - Content is created with 3DSmartDocCreator Server (TS9).
  - Created content is linked to the corresponding composer project.
- Lifecycle 3DVIA Composer projects
  - Project folders are zipped and stored to the vault. SMG files are created to provide viewing capabilities if projects are stored to the vault.
3DSmartDocCreator features include:

- All settings are easily accessible to "Admin Settings" and standard ENOVIA SmarTeam Admin Tools. Changes done by the administrator will take effect immediately on all users using 3DSmartDocCreator Server.
- 3DSmartDocCreator Client and Server are multilingual.
  - All captions in the Client GUI are multilingual.
  - All Log information in the Server is multilingual.
  - There is support for English and German.
  - The language representation in the Client is based on the ENOVIA SmarTeam language setting.
  - The language representation in the Server can be set manually.
- Translations for the Client GUI are stored as language dependent XML files and can easily be changed.
- 3DSmartDocCreator Server allows trace capabilities.
- 3DSmartDocCreator BPA offers a free (open source) extended ENOVIA SmarTeam word integration to insert ENOVIA SmarTeam managed content like pictures and text blocks.
  - Place content
  - Show profilecard for placed content
  - Replace content with latest version
  - Replace all contents with latest versions
- 3DSmartDocCreator Client and Server enable customers and resellers to embed their own customization by using several Script or DLL calls.

APIs available

3DSmartDocCreator offers several script and Dynamic Link Library (DLL) hooks that can be used to embed additional custom-specific functions. These APIs (Application Program Interface) are:

Client side

- **CreateViewObjects** - Creates a job for 3DSmartDocCreator Server to create JPEGs of every view defined in the Composer
- **CreateContentObject** - Creates a job to create SVGs or other output formats of every view defined in the Composer project
- **AddComposerProject** - Creates a new Composer project
  - Destination selection
  - Template selection
  - Property insertion
- **BeforeAddComposerProject**
  - Copies template and default values to a new project
  - Stores existing Projects into ENOVIA SmarTeam
- **DeleteComposerProject** - Deletes a full Composer project including work folder and used files.
- **LifeCycleComposerProject** - Is responsible for zipping a Composer project and to do the selected LifeCycle operation (work -> vault).
- **LFXvaulttoLocal** - Unzips a Composer project after LF-Operations from vault to local client (Checkout, CopyFile, and NewRelease).
- **SaveViewFile** - Extracts a view file from a checked out Composer project and stores it as template.
- **SaveSceneFile** - Extracts a scene file from a checked out Composer project and store it as template.
- **UpdateCompXMLFile** - Changes the properties of a Composer XML file in alignment to the integration-tool setup and item-settings. Data is changed in the server-area not in the local project.
• **UpdateAllCompXMLFiles** - Changes the properties of all related Composer XML files in alignment to the Integration-Tool Setup and Item settings. Data is changed in the server-area and copied to the local project folder.

• **RefreshFileToWorking** - Copies the dependent actual XML and Geom files from the Server to the local Project Folder.

• **RefreshToLatest** - Copies all latest Versions of XML and Geom from the Server to the local Project Folder. Updates all related links.

• **ShowStructure** - Provides the ability to compare the local project information with the server files.

• **InsertProductfromSmarTeam** - Provides the ability to insert additional products to the Composer Project Root through ENOVIA SmarTeam searches or Desktop navigation.

• **InsertProductfrom3DFile** - Provides the ability to insert additional products to the Composer Project Root through Windows® File selection of 3D CAD file.

• **InsertProductfromGeomFile** - Provides the ability to insert additional products to the Composer Project Root through Windows File selection of SmgGeom.

### 3DSmartDocCreator Server (5672-TS9)

3DSmartDocCreator Server offers capabilities to use important ENOVIA SmarTeam functions for creating, life cycle and modifying ENOVIA SmarTeam objects. Users can access files, send mail, and do string conversions. Meta information can easily be transferred from ENOVIA SmarTeam to the Composer project also imbedded in an ENOVIA SmarTeam Workflow.

3DSmartCreator Server is a flexible, scalable application fully supporting 3DVIA Sync Integration and ENOVIA SmarTeam. The client and server side subdivision ensures an efficient and extensive project creation and update.

The 3DSmartDoc - Creator Server provides functions and features to create technical content, such as high resolutions pictures or illustrations based on existing 3D assemblies automated through "jobs".

The 3DSmartDocCreator Server provides tracing for success and error cases. SMTP (Simple Mail Transport Protocol) Mail support provides information and annotation exchange.

### Product highlights

3DSmartDocCreator Server allows users to:

• Automatic conversion of Composer Metafiles and Geometries that is based on existing ENOVIA SmarTeam Objects
  - 3D Representations from CATIA, ProE, SolidWorks and the like
  - Item Objects

• Physical Content creation, such as
  - JPEGs
  - SVG
  - SMG
  - HTML

• Use ENOVIA SmarTeam Workflow information and create content related to Workflow settings

• Use BPA SAP Toolkit to create automated SAP content

3DSmartDocCreator Server (TS9) enables life-cycle-driven automatic 3D conversion. 3DVIA Composer smgXML and smgGeom files (3DVIA Composer file types) are directly created through first checkin and release. All existing 3D and related Item information is mapped into the created files. 3DSmartDocCreator Server creates the output files like JPEGs or scalable vector graphics.
Key customer benefits

- Quality
  - In-process automated update and change management
  - Workflow controlled
  - Success and error tracing
  - Revision-based updating
- Cost - No additional 3DVIA Sync and 3DVIA Sync licenses on client side needed
- Time saving
  - No conversion time on client site
  - No content creation time on client side
- Usability
  - Easy to use
  - Easy job management
  - Extendable with own DLLs or Scripting
- Based on several customer requirements, 3DSmartDocCreator is developed as a practice related solution.
- Flexible, scalable and process integrated

Product detailed description

3DSmartDocCreator Server functions include:

- Batching 3DVIA Sync
  - Use different XML Configurations for 3DVIA Sync conversion jobs
  - Use different XML configurations for 3DVIA Sync publishing jobs
  - Control every XML configuration node, if needed
- ENOVIA SmarTeam function access
  - Object Creation
  - Object Modification
  - Object Deletion
  - Linking
  - Searching
  - Lifecycle Objects
    -- Check In
    -- Check Out
    -- Release
    -- New Version
    -- Make Obsolete
  - Vault operations
    -- Copy File
    -- Copy Dependencies
  - Workflow operations
- File Access
  - Open files
  - Read and write access
- Data functions
  - Data conversion
  - String conversions and manipulations
- Call external functions - COM DLL access and support
• Mail
  – Sending mail through "Success"
  – Sending mail through "Error"
  – Sending mail through "General System Failure"
  – SMTP Support (Simple Mail Transport Protocol)

**3DSmartDocCreator features**
- All settings and job definitions are easily accessible in Job operations definitions (*.jod).
- Changes done by the administrator will take effect immediately with next job.
- 3DSmartDocCreator Server is multilingual.
  - All captions in log file can be defined.
  - There is support for English and German.
- 3DSmartDocCreator Server provides trace capabilities.
- 3DSmartDocCreator enables the customer, business partner, and resellers to embed their own customization by using several Script or DLL calls.

3DSmartDocCreator is a solution for every company that needs for any kind of documentation support and works with 3DVIA Composer.

**APIs available**
3DSmartDocCreator Server provides several Script functions that can be used to embed additional custom-specific functions. These are:

**Server side (For detailed information, refer to the server documentation):**
- ENOVIA SmarTeam functions
  - CopyFile
  - CreateReportObject
  - Delete
  - GetData
  - GetLinks
  - GetLinksPlus
  - GetList
  - GetList2
  - GetStructure
  - GetStructurePlus
  - InitiateProcess
  - LifeCycleOperation
  - LinkToObject
  - LinkToParent
  - Login
  - Logout
  - RetrieveMapping
  - Run
  - Save
  - SendMessage
  - SetData
  - SetObject
  - Terminate
  - ExecuteCopyOperation
- ExecuteLFOperation
- CopyViewFile
- MoveFileFromVault
- MoveBack
- MoveAddFileToVault
- MoveBackFileFromDir

• File functions
  - Close
  - Copy
  - Delete
  - Execute
  - GetLine
  - Move
  - OpenForAppend
  - OpenForInput
  - OpenForOutput
  - PutLine

• Windows Process
  - WaitForTask
  - WaitForProcess

• ENOVIA SmarTeam Process/Workflow
  - InitByObjectId
  - AcceptResponse
  - RejectResponse
  - Object
  - GetAttachedDocuments

• Control functions
  - AndIf/AndIfNot
  - Check
  - DoLoop
  - DoNext
  - Exit
  - ExitDoLoop
  - ExitLoop
  - Goto
  - If/ElseIf(Not)/Else/Endif
  - IfNot/ElseIf(Not)/Else/Endif
  - Include
  - Label
  - Loop
  - New
  - Next
  - Sleep
  - StopRedo
  - StartRedo

• Composer functions
  - CallSync
– CallImageCreation
– Callmapper
– Unzip
– Zip
– ChangeXMLValue

• BPA SAP Calls

**Animation Exporter (5672-AE9)**

Animation Exporter BPA animates a DELMIA manikin with the movements of a Virtools animated character. The character movements are based on output from a Motion Capture System (MCS).

Animation Exporter contains a set of functions, running both in Virtools and in DELMIA allowing DELMIA users to use human movements recorded by a MCS. Complementing the standard DELMIA character animation functions, Animation Exporter allows users to include representation of "real-life" human movements in manufacturing simulations. AE9 Animation Mapping functions are extremely fast and exact. Using AE9, there is no need to re-design animations.

**Product highlights**

In 3DVIA

• Creation of a DELMIA Manikin animation, which exactly replicates the original character movements
• Export of the DELMIA Manikin animation to a positions file

In DELMIA, import of the positions file and creation of a replay file

**Key customer benefits**

• Animates the DELMIA characters with movements from real human beings through the design collaboration enhancement. This allows import of animations, recorded by the Motion Capture System, into DELMIA.
• Includes a higher quality, more realistic, faster human simulations -There is no need to re-design the animations because the movement integrity is ensured by the application.
• Includes a complementary approach to confirm human simulation - Users can verify, with real operators, the quality of the animations and processes designed in DELMIA.

**Product detailed description**

Duplicate an animation created by Motion Capture System and export the new animation data to a positions file with 3DVIA Virtools. Import them into DELMIA and play the animation in DELMIA.

A typical usage scenario is to animate the DELMIA Manikin with movements from real human beings, using a MCS. The MCS records the movements of a real person. The MCS datastream is converted into a Virtools Animated Character. Using Animation Exporter, the animation from the Virtools character is copied to the DELMIA manikin, which now moves in exactly the same natural way as the original person.

Duplicate MCS animation with DELMIA Manikin

1. Create a Building block on DELMIA Manikin Entity
2. In Building block
   – Retrieve all the positions from the original animation
   – Use a mapping table to map the positions of Virtools character to DELMIA Manikin by creating a global animation
Export the new animation to the positions file.

1. Go to **Export -> Animation** to export the position data to an .AI9Replay file.
2. Select Path to save **Position file**

Import the positions file and create a replay file in DELMIA

1. Open a geometric model in DELMIA
2. Launch a command **Import Animation** with a dialog to allow selecting a file with extension .AI9Replay
3. Run the command to create new animation with DELMIA Manikin in DELMIA

**Advanced Product Quality Planning (5672-AQ9)**

Advanced Product Quality Planning (AQ9) BFA is a Web-based quality planning ENOVIA SmarTeam application that allows a company to leverage the Advanced Product Quality Planning (APQP) Process to drive quality improvements into product design and manufacturing. It improves process efficiency and tracking, and reduces administrative burden required to comply with the APQP Process.

APQP is a solution for small-, medium-, and large-sized businesses in the automotive market and for any company managing their quality process according to TS16949.

Supports the collaborative management of Failure Mode and Effects Analysis (FMEA), Control Plan and Gage R&R across worldwide product development teams.

- Supports the easy edit tool to make Design Failure Mode Effect Analysis (DFMEA) and Process Failure Mode Effects Analysis (PFMEA)
- Generates summary screen
- Generates Gage report and Control Plan report

Gage R&R, Gage Repeatability and Reproducibility, is a statistical tool that measures the amount of variation in the measurement system arising from the measurement device and the people taking the measurement.

**Product highlights**

AQ9 contains the following main features:

- Create New Project group and Project
- Attach Design FMEA or Process FMEA to project
- Create Control Plan and Gage R&R

**Key customer benefits**

- Ensures early planning takes place
- Identifies required changes early in the process
- Increases customer satisfaction
- Reduces product development timing and cost / support integrated product development
- Documents and tracks action taken to reduce risk
- Integrates with Design for Manufacturing & Assembly techniques
- Addresses potential problems early in design and manufacturing

**Product detailed description**

The list of available functions delivered in the Advanced Product Quality Planning BPA is as follows:

**Create a new project**
1. FMEA definition
   - From Scratch - Create a new Project object directly with Web Editor standard operation then add FMEA Head, Element and Item objects.
   - Reusing an Existing Project - Directly with Web Editor
     -- Create a new Project object.
     -- Use FMEA Copy tool from the project profile card. From this interface, browse the existing projects and select the project you want to copy from.
     -- There are two screens for Design FMEA and Process FMEA. Choose Header or Element object. If element is clicked, system choose upper Header by default. When header is unselected, sub elements are unselected.

2. Control Plan Definition
   - From Scratch - Create a new Project object directly with Web Editor standard operation then add Control Plan Header, Element and Item objects.
   - Reusing an Existing Project - Directly with Web Editor

3. Gage R&R Report - From Scratch - Create a new Project object directly with Web Editor standard operation then add Gage Header and Element objects.

Project Execution
1. FMEA
   - Edit - From Design FMEA Head or Process FMEA Head, call Edit after run Update.
   - Export - By clicking Export to Excel, save to Microsoft Excel.
   - Chart - From Design FMEA Head or Process FMEA Head call Chart View.
2. Control Plan
   - Edit - From Control Plan Header call Edit after run Update.
   - Export - By clicking Export to Excel, save to Microsoft Excel.
3. Gage R&R Report
   - Edit - From Gage Header, call Report View after run Update

Enhanced BPA products in V5.7

CATIA V5 Automotive Extensions/Vehicle Architecture BPAs

The CAVA SILHOUETTE feature lets the user project a silhouette of a selected geometry to a target plane of their choice. This feature can be used in all situations when the user wants to create a silhouette of certain geometry.

Note: This feature is only available for CATIA V5 Automotive Extensions/Vehicle Architecture Configuration 5672-CL9.

CATIA V5 Automotive Extensions/Vehicle Architecture - Manikin (CM9)

- Additional position methods for placing 2D-manikin template
- New standard in eye-point configuration file

Additional positioning methods for placing 2D-manikin template for CM9 are available in this release. These include:

- Pos.14 - using floor geometry, gas pedal geometry, measurement H30 and hip angle.
- Pos.15 - using floor geometry, gas pedal geometry, measurement H30 and knee angle.


New Standard in eye point configuration file (EyePoints.xml) to define shifted eye point position in case the seat back angle, that is defined in the CAVA Base Data Feature (CO9) is fixed (non-adjustable). These shifted eye point position are
required in the automotive regulations EG/EWG 2003/97 for mirror testing (part of CATIA V5 Automotive Extensions/Vehicle Architecture - Vision (CV9)).

**CATIA V5 Automotive Extensions/Vehicle Architecture - Overall Vehicle Architecture (CO9)**

- New Toolbar contains the following basic V5 commands to generate auxiliary geometry:
  - Point
  - Line
  - Plane
  - Extrude
  - Intersect

  These are the same commands that are available in the CATIA V5 Generative Shape Design (GSD) workbench. These commands simplify creation of CATIA V5 features inside the CAVA workbench.

New features in CATIA V5 Automotive Extensions/Vehicle Architecture - Overall Vehicle Architecture (CO9) include:

- **Base Data**
  - The wheel center points for the different loadings can now be also defined as absolute values from the origin and not only as relative delta values from the wheel mid point as defined in the *Wheels* tab page.
  - The car category can now be specified in the main user dialog for base data and can be modified afterwards.
  - The coordinates for the seat data are now accessible as V5 parameter and provide the *edit formula* option.
  - New option button in the seat definition tab page to define whether the seat back angle is fixed (non-adjustable) or not.

- **Base Data Database** - The xml/xls export allows users to filter the data for export or to fake specific parameters. If you do not want to give away all parameters of the base data, users can exclude certain parameters from export and veil the exact value of a parameter by rounding the decimals.

- **Underfloor - Wheel Fixing**
  - A new option has been added to position the required surface at the wheel (instead of position it at the diameter point).
  - A new option has been added to visualize the required free space as a cuboid. A cuboid is a solid figure bounded by six faces, forming a convex polyhedron.

- **Bumper Pendulum**
  - New option to position the bumper pendulum in contact to the vehicle geometry as movement in x-direction.
  - The default settings for the creation of the Bumper feature (which pendulum to use, side and accuracy) can be set in CATIA Tools - Options menu.

**CATIA V5 Automotive Extensions/Vehicle Architecture - Safety (CA9)**

New CATIA V5 Automotive Extensions/Vehicle Architecture - Safety (CA9) features include:

- **Safety Radius** - New feature to check for minimum radius on exterior vehicle surface according to EWG/ECE standard. This new feature calculates the radius of curvature on selected vehicle geometry. It is used to avoid sharp edges on vehicle geometry.

- **Pedestrian Protection** - The algorithm that is used to connect the Bonnet Rear Curve with the Bonnet Side Curve by using a semi-circular template is improved.

- **Pedestrian Protection Offset**
  - New options are added to define the Sketch based geometry in the reference part. (A sketch is used as guide line for an offset surface.)
– Usage of the section curve in the sketch
– Usage of additional wrap around points
– Usage of an offset curve from a section

• Head Impact - The report file has been improved to include Seat point and CG points. (Seat point is the seating reference point (SRP) or hip point of the driver (or passengers). CG points are the center of gravity points of the head.)

CATIA V5 Automotive Extensions/Vehicle Architecture - Vision (CV9)

New CATIA V5 Automotive Extensions/Vehicle Architecture - Vision (CV9) features include:

• A-Pillar Covering - The feature now allows the user of CGR data (tessellated geometry) as referenced A-pillar input geometry for calculation.
• Rear View Mirror - This feature takes into account the CAVA rear view mirror check. If the seat back angle is defined as fix (non-adjustable) in the BPA, CATIA V5 Automotive Extensions/Vehicle Architecture - Overall Vehicle Architecture (CO9), the eye points that are taken for the mirror check according to the automotive regulation EG/EWG 2003/97 are shifted.

CATIA V5 Automotive Extensions/Vehicle Architecture - Wiper (CW9)

An enhancement to the Wiper feature of the CATIA V5 Automotive Extensions/ Vehicle Architecture - Wiper (CW9) BPA allows the blade curve (this is the contact line of the wiper blade when it hits the windshield) can now be created as a CATIA V5 curve inside the CAVA feature. This lets the user to use the blade curve for ongoing CATIA actions.

Progressive Die Strip Layout Design (SL9)

There are no enhancements in this release.

Collaborative Systems Lifecycle Management & Traceability (CS9)

This release contains a baseline improvement, which allows managing a new baseline tree. A baseline is a reference configuration used to identify and control change. It allows users to retrieve the relations between items configurations at a selected time.

This release also supports integration with Microsoft Office 2007.

Collaborative Systems Lifecycle Management & Traceability (CS9) is available only as an included product in the following configurations

• Collaborative Systems Engineering Configuration (5672-CE9)
• Collaborative Systems Engineering Premium Configuration (5672-CP9)

Composite Document Generation (CD9)

Enhancements in this release include:

• Rich Text Edition included in query creation
• Integration with Microsoft Office 2007

Requirements Management (RM9)

Enhancements in this release include:

• Requirements Interchange Format (RIF) import - This enhancement allows interoperability with different requirements tools. The user can import requirements from different requirements tools. With this enhancement, the user can export and import requirements from different requirements tools. RIF is fully supported.
The RIF enhancement allows RM9 to be compliant with RIF format, which is independent from a special Requirements Management (RM) tool and supported by most vendors of RM tools. Supporting RIF format allows user to provide requirements from original equipment manufacturer (OEM) to suppliers.

• Full Integration to Excel 2007 - This enhancement allows export or import requirements into Collaborative Systems Engineering or Microsoft Excel.
• Integration Verification Validation Qualification environment - This enhancement allows life cycle on IVVQ elements. A new matrix is implemented to follow the link between requirement and IVVQ element.
• Integration with Microsoft Office 2007

Requirements Management (RM9) is available only as an included product in the following configurations

• Collaborative Systems Engineering Configuration (5672-CE9)
• Collaborative Systems Engineering Premium Configuration (5672-CP9)

Requirements XML Edition (RX9)

Enhancements in this release include integration with Microsoft Office 2007.

Requirements XML Edition (RX9) is available only as an included product in the Collaborative Systems Engineering Premium Configuration (5672-CP9).

Flexible PCB Automation (FP9)

Enhancements in this release include:

• FP9 options - Added a standard options setting panel for easy configuration of FP9. This new option replaces the configuration text file.
• Include components when generating CATIA - Circuit Board Design (CBD) board. This is in addition to the existing command, which supports only Board and Constraints Areas.
• Interoperability with Zuken Board Interchanger data. This provides flexible capability in fold/refold command.

SmartProject (SP9)

There are no enhancements in this release.

Dysfunctional Analysis & Simulation (SD9)

This release allows multi-level systems. It is now possible to build families on top of other components or equipments families.

In the previous delivery, an equipment library could only follow the structure:

```
family MyFamily = {
    equipment MyModel1 (revision 42, revision 6),
    equipment MyModel2 (revision 1)
}
```
In this release, families can be nested:

```java
family MySuperFamily = {
    family MyNestedFamily1 = {
        family MyFamily1 = {
            equipment MyModel1 (revision 42, revision 6),
            equipment MyModel2 (revision 1)
        },
        family MyFamily2 = { ... }
    },
    ...,
    ...}
}
```

**Product Structure Synchronization for VPM V4 (PS9)**

There are no enhancements in this release.

**ENOVIA SmarTeam/SAP Adaptor (SS9)**

Enhancements in this release include:

- New language ZF (Chinese traditional) added to SAP Adaptor internal messages.
- New functions for creating and updating EC masters in SAP. In previous releases, only the EC header data could be created in dark mode without SAPGUI. Now, all EC data including object types, effectiveness and longtext can be created.
- New and flexible function for BOM updates. In previous releases, the ENOVIA SmarTeam/SAP Adaptor used pre-implemented SAP functions for creating/updating BOMs. In this release, the Adaptor offers its own BOM update module by which BOM updates can be controlled on field level. The administrator can define:
  - Identify attributes, which identify an ENOVIA SmarTeam BOM item
  - Update attributes, which identify BOM items that need to be updated
  - Preserve attributes where values need to be preserved during an update.
- New sample configurations for faster customization
- New sample configurations can be found for:
  - Updating BOM with new BOM function
  - Creating full EC master in dark mode
  - Creating a material revision using function module

**SmartDX (SX9)**

SmartDX (SX9) delivers new functions in this release. The enhancements include:

- An embedded tray icon shows the user the progress of the current SmartDX Server process. Different symbols represent different process status. The user can easily monitor the progress of the process.
- Send To - batch process - If enabled, this new function will process all CATIA documents that are selected for export using the CATIA Send To function. This is recommended by most automotive OEMs.
- A new SmartDX Plug In has been introduced to allow administrators to be informed in case a Job runs into an error.
- A new plug in allows the use of custom specific CATIA start routines.

**SmartDX Client (CX9)**

In Delivery 7 for V5.19, SmartDX Client (CX9) delivers new functions that include an embedded tray icon, which shows the user the progress of the current SmartDX Server process. Different symbols represent different process status. This allows the user to quickly and easily monitor the progress of the process.
Weight&Balance for ENOVIA V5 (WC9)

The following new features and enhancements are included in this release:

- Support of VPM Navigator filters - VPM Navigator filters are taken into account when computing the assembly, subassembly or generating reports. This is done through an enhanced **WB Filter** command.
- Support of paint, coating, and standard parts - It is now possible to account for paint, coating and standard parts, by using the new **Mass Only** option when supplying the info for an imposed mass type. The computation of the CG, moment and product of Inertia is based on the **Next Higher Assembly** values.
- Distributive Analysis computation mode - Computation by splitting the geometry is available through the **WB Group** command. The geometry is split to return the results associated to only the volume inside each defined section volume.
- Support of CATIA Composite Part for computation - Computation of CATIA Composite Parts (designed with CPD workbench) is now based on the composite technological information available in the CATPart.
- Blackbox Analysis enhancements - Computation of **Black Box** has been enhanced to support multilevel black boxes, using components and products. The WPE license prerequisite has also been dropped.
- Choice between ENOVIA Attributes or ENOVIA properties for storing the information - It is now possible to store the WB information on ENOVIA properties instead of on the ENOVIA attributes. Using ENOVIA properties does not require modifying the DMC by adding WB specific attributes.
- New assembly computation modes - New computation modes such as force and assume up to date are now added to the check if up to date option to insure more flexibility on assembly processing.
- Enhancements to the batch application - The batch application now supports part lists and product lists as inputs. It is also able to process large assembly by reconnecting to the ENOVIA server when the memory threshold controlled by an environment variable has been met.

CATIA Data Security (DS9)

BPA Delivery 7 for V5.19 introduces these new enhancements for DS9:

- All formats are encrypted.
  - CATIA V5 formats are managed in the CATIA session to insure the best level of security.
  - Other formats are encrypted/decrypted by the same commands as CATIA V5 formats on the OEM side and can be decrypted/encrypted by a dedicated Windows application on the supplier side. In this case, even the suppliers who do not use CATIA but hold a valid license can decrypt the data.
- Two new options
  - **Allow Unprotected Export** - In previous DS9 versions, the DRM authorization flags were hard-coded in a maximum-security configuration. One of the functions disabled by DS9 is Export, which corresponds to a SaveAs into a non-V5 file format (STEP, IGES). When using Export it is sometimes necessary to communicate with manufacturers not using CATIA, or to execute some CATIA commands (some Manufacturing commands generate APT, standard files). Checking this check-box ON will enable such operations, though it also reduces the level of security, hence its default value to OFF.
  - Do not delete origin files/folders - OEMs can decide to keep the folders and the files in the origin directory after export or import operations.
- Batch application support - A new check-box in the DS9 login panel allows storing the login information on the supplier machine. Once stored, this login information will be used whenever necessary to decrypt or encrypt the data, in case the DS9 Authenticate command has not been run. A typical usage scenario is to run batch applications with DS9 encrypted data.
**Kinematics Merging Tools (CH9)**

This release renames this BPA from Chassis Suspension Tool to its new name, Kinematics Merging Tools.

Delivery 7 for V5.19 also removes the dependency on **Instance Name**. Prior to V5.7, the **Automatic Dress-up** command was using a naming convention in the **Instance Name** to map the **Skeleton** with its associated geometry. When data is managed by a Product Data Manager (PDM) system, modification of the **Instance Name** is not always possible. In this release, a **Property** is used instead of the naming convention.

**Power Feature (PF9)**

There are no enhancements in this release.

**Animation Importer (AI9)**

The following new import and export options are available in this release:

- Export animation replay data and all manikins - The new **Export Position Data** command exports in one single operation both the **Replay** data and all **Manikins** from DELMIA.
- Import replay data and all manikins - now one operation imports into Virtools both the **Replay** data and all **Manikin** animations.

**Virtual Die Tryout (DI9)**

BPA Delivery 7 for V5.19 contains the following DI9 enhancements:

- Viewer manipulation during simulation and collision checking is now possible.
- List of collisions is now persistent. There is no need for re-computation at document load if the geometry was not modified.
- Gives a detailed clash check by clicking a collision list item.
- Improved performance.
- The toolbar contains the following commands that launch different functions:
  - **ModifyControllUnitDefinition**, Launches the user form for die joint definition
  - **RUNCamUnitCalculation**, Calculates the cam motion by displacement
  - **RUNDieSimulation**, Replays the calculated curves
  - **RunCollisionCheck**, Calculates and views the inner die collisions
  - **Check Clash** Standard DMU command
  - **Sectioning** Standard DMU command

**Aralia Fault Tree Analyzer (FT9)**

There are no enhancements in this release.

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**Education support**

IBM training provides education to support many IBM offerings. Descriptions of courses for IT professionals and managers are on the IBM training Web site


Contact your IBM representative for course information.
Specified operating environment

Hardware requirements for BPA Delivery 7 for V5.19

The latest hardware and software requirements may be found in product documentation (such as installation guides, administrator’s guides, program directory, or user guides) on the product media.

Animation Exporter (AE9)
There are no additional requirements beyond those for 3DVIA Virtools 4.0, and DELMIA V5.19.

Animation Importer (AI9)
There are no additional requirements beyond those for 3DVIA Virtools 4.0, CATIA V5.19 and/or DELMIA V5.19.

Advanced Product Quality Planning (AQ9)
There are no additional requirements beyond those for ENOVIA SmarTeam V5.19.

3D Tribon Importer (CT9)
There are no additional requirements beyond those for CATIA - Object Manager (COM)/ Level CATIA V5.19. COM is included in any CATIA Configuration.

Virtual Die Tryout (DI9)
There are no additional requirements beyond those for CATIA V5.19 and DELMIA V5.19.

Kinematics Merging Tools (CH9)
There are no additional requirements beyond the CATIA V5.19 hardware requirements and prerequisites.

CATIA V5 Automotive Extensions/Vehicle Architecture BPAs
- CATIA V5 Automotive Extensions/Vehicle Architecture - Safety (CA9)
- CATIA V5 Automotive Extensions/Vehicle Architecture - Manikin (CM9)
- CATIA V5 Automotive Extensions/Vehicle Architecture - Overall Vehicle Architecture (CO9)
- CATIA V5 Automotive Extensions/Vehicle Architecture - Vision (CV9)
- CATIA V5 Automotive Extensions/Vehicle Architecture - Wiper (CW9)

There are no additional requirements beyond the CATIA V5.19 hardware requirements and prerequisites.

Collaborative Systems Lifecycle Management & Traceability (CS9)
There are no additional requirements beyond the ENOVIA SmarTeam V5.19 hardware requirements and prerequisites.

Composite Document Generation (CD9)
There are no additional requirements beyond the ENOVIA SmarTeam V5.19 hardware requirements and prerequisites.
SmartDX Client (CX9)
There are no additional requirements beyond the ENOVIA SmarTeam V5.19 hardware requirements and prerequisites.

Flexible PCB (FP9)
There are no additional requirements beyond the CATIA V5.19 hardware requirements and prerequisites.

Power Feature (PF9)
There are no additional requirements beyond the CATIA V5.19 hardware requirements and prerequisites.

Product Structure Synchronization for VPM V4 (PS9)
Hardware on server and client side is identical for Dassault Systemes standard products, as specified in the ENOVIA VPM V4 V1.6 PTF14, CATIA V5.19, and ENOVIA 3d com V5.19 Program Directories.

Requirements Management (RM9)
There are no additional requirements beyond the ENOVIA SmarTeam V5.19 hardware requirements and prerequisites.

Requirements XML Edition (RX9)
There are no additional requirements beyond the ENOVIA SmarTeam V5.19 hardware requirements and prerequisites.

ENOVIA SmarTeam/ SAP Adaptor (SS9)
There are no additional requirements beyond the ENOVIA SmarTeam V5.19 hardware requirements and prerequisites.

SmartProject (SP9)
There are no additional requirements beyond the ENOVIA SmarTeam V5.19 hardware requirements and prerequisites.

Progressive Die Strip Layout Design (SL9)
There are no additional requirements beyond the CATIA V5.19 hardware requirements and prerequisites.

Dysfunctional Analysis & Simulation (SD9)
• Minimal configuration
  – Pentium® IV 1.4 GHz (or equivalent)
  – Hard disk: 50 MB available
  – RAM: 512 MB
  – Screen resolution: 1024 X 768 pixels, 65536 colors
  – System - Microsoft Windows XP SP1+
• Recommended configuration
  – Pentium IV 3 GHz (or equivalent)
  – Hard disk: 1 GB available
  – RAM: 1 GB
  – Screen resolution : 1280 X 1024 pixels, 65536 colors
  – System - Microsoft Windows XP SP1+
**SmartDX (SX9)**
There are no additional requirements beyond the ENOVIA SmarTeam V5.19 hardware prerequisites and CATIA V5.19 hardware prerequisites.

**3DSmartDocCreator Client (TC9)**
3DSmartDocCreator has no specific hardware requirements. Because the installation of ENOVIA SmarTeam and/or 3DVIA Composer/Sync is needed please refer to the appropriate requirement description.

**3DSmartDocCreator Server (TS9)**
3DSmartDocCreator has no specific hardware requirements. Because the installation of ENOVIA SmarTeam and/or 3DVIA Composer/Sync is needed please refer to the appropriate requirement description.

**Weight&Balance for ENOVIA V5 (WC9)**
A functional CATIA V5.19 and ENOVIA VPLM V5.19 installation on the server side with access to a vault is required to fully take advantage of the Weight&Balance BPA.

**CATIA Data Security (DS9)**
There are no additional requirements beyond those for CATIA - Object Manager Level (CATIA V5.19) or DELMIA V5.19.

**Aralia Fault Tree Analyzer (FT9)**
- Minimal configuration
  - Pentium IV 1.4 GHz (or equivalent)
  - Hard disk: 50 MB available
  - RAM: 512 MB
  - Screen resolution: 1024 X 768 pixels, 65536 colors
  - System - Microsoft Windows XP SP2
- Recommended configuration
  - Pentium IV 3 GHz (or equivalent)
  - Hard disk: 1 GB available
  - RAM: 1 GB
  - Screen resolution: 1280 X 1024 pixels, 65536 colors
  - System - Microsoft Windows XP SP2

**License management**
All BPAs except CATIA Data Security (DS9) implement LUM licensing mechanism (v4.6.8). The CATIA Data Security (DS9) BPA, while not LUM licensed-managed, requires a special encryption key for proper use. This key must be requested from the IBM Key Center. For instructions on obtaining this key, refer to the Software Registration Memo (GI11-6450).

For All BPAs, except CATIA Data Security (DS9), the following licensing principles apply:
- Each BPA will require a license. Licenses for BPA are acquired and released for the total product.
- License keys for BPA configurations are acquired and released for the total configuration. A configuration license key provides access to all of the products included in the configuration.
- BPA products will require a license, in addition to one for the prerequisite configuration and any prerequisite product, if applicable.
In all cases, licenses are acquired at the beginning of the process and are released at its termination.

Two license types are implemented:

- Nodelocked Licenses: A nodelocked license allows the use of a BPA on the particular machine for which the license was created for as long as the license remains valid.
- Concurrent Licenses: A concurrent license is a network license that can be temporarily granted to run the licensed BPA on a client. When the BPA is running, that license remains unavailable to other users of the product. When the product stops running the license is returned to the server, where it becomes available to other users. Concurrent licenses allow as many users to run a licensed BPA simultaneously as there are valid licenses for the BPA available from the network license servers in your licensing environment.

**Software requirements**

In general, BPAs are built on top of one or several PLM Solutions (CATIA, ENOVIA, DELMIA, 3DVIA V6, and 3DVIA Virtools), and therefore require a license for a configuration that includes at least the prerequisite products. Only two BPA products, Dysfunctional Analysis and Simulation (SD9) and the Aralia Fault Tree Analyzer (FT9) BPAs are stand-alone applications. As stand-alone products, they do not have any prerequisites on CATIA, ENOVIA, DELMIA, 3DVIA V6, or 3DVIA Virtools.

A BPA configuration is defined as a bundling of BPA products, some or all of which may be available on an individual basis. When BPA products are purchased in a configuration, those BPA products can be used only by a single user at a given time.

**PLM Product software requirements**

<table>
<thead>
<tr>
<th>PLM Product</th>
<th>BPA Delivery 7 for V5.19</th>
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</thead>
<tbody>
<tr>
<td>CATIA V5</td>
<td>V5.19</td>
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<tr>
<td>ENOVIA SmarTeam</td>
<td>V5.19</td>
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<tr>
<td>ENOVIA VPM</td>
<td>V1.6 PTF14</td>
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<td>ENOVIA VPLM</td>
<td>V5.19</td>
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<tr>
<td>DELMIA</td>
<td>V5.19</td>
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<tr>
<td>3DVIA</td>
<td>V6R2009x or higher</td>
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<tr>
<td>3DVIA Virtools</td>
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**BPA software prerequisites**

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<tr>
<th>CATIA V5</th>
<th>ENOVIA SmarTeam</th>
<th>ENOVIA VPM</th>
<th>ENOVIA VPLM</th>
<th>3DVIA</th>
<th>DELMIA</th>
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</table>
Minimum software requirements for BPA Delivery 7 for V5.19

The latest hardware and software requirements may be found in product documentation (such as installation guides, administrator's guides or user guides) on the product media.

Advanced Product Quality Planning (AQ9)
- Operating system - Microsoft Windows Server 2003 SP2
- Software requirements - Prerequisites:
  - ENOVIA SmarTeam - Editor and Web Editor V5.19
  - ENOVIA SmarTeam - Foundation (FDN) V5.19
  - Microsoft Excel (for reporting)
  - SmartProject BPA (SP9) V5.19
  - ENOVIA SmarTeam - Workflow (WFL) (Optional)

Animation Exporter (AE9)
- Operating system - Microsoft Windows XP Professional SP2
- Software requirements - Prerequisites:
  - 3DVIA Virtools 4.0
  - DELMIA V5.19 (DELMIA basic license + DELMIA - Human Builder 2 (MHB) + DELMIA - Human Task Simulation 2 (MHT))
  - Animation Importer (AI9) BPA

The object of this BPA is to import Virtools animated characters into DELMIA.

3DSmartDocCreator Client (TC9)
- Operating system
  3DSmartCreator requires the use of one of the following operating systems (on client side as well as on server side).
  - Microsoft Windows XP Professional SP2
  - Microsoft VISTA
- Software requirements
  - ENOVIA SmarTeam - Editor (EDR) V5.16/V5.17/V5.18/V5.19 on client and server side.
  - 3DVIA Composer installation with a release of V6R2009x or higher (R2010 recommended).
3DSmartDocCreator Server side requires the installation of Microsoft Net Framework 2.0.

There is no demanded service pack for ENOVIA SmarTeam.

For additional details on the appropriate software required by 3DSmartDocCreator, refer to the installation guide and/or to the hardware and software requirements provided by the software vendors.

**3DSmartDocCreator Server (TS9)**
- Operating system
  3DSmartCreator Server requires the use of one of the following operating systems (on client side as well as on server side.
  - Microsoft Windows XP Professional SP2
  or
  - Microsoft Server System similar to Windows 2003 Server R2
- Software requirements
  - ENOVIA SmarTeam - Editor (EDR) V5.16/V5.17/V5.18/V5.19 on client and server side
  - 3DVIA Sync and 3DVIA Sync Integration installation with a release of V6R2009x or higher
  - 3DSmartDocCreator Server side requires the installation of Microsoft Net Framework 2.0

There is no demanded service pack for ENOVIA SmarTeam.

For additional details on the appropriate software required by 3DSmartDocCreator, refer to the installation guide and/or to the hardware and software requirements provided by the software vendors.

**Animation Importer (AI9)**
- Operating system - Microsoft Windows XP Professional SP2
- Software requirements - Prerequisites
  - 3DVIA Virtools 4.0
  - CATIA V5.19 or DELMIA V5.19

The object of this BPA is to import any CATIA/DELMIA animation into 3DVIA.

- If the user uses CATIA for computer aided design (CAD) and wants to import the CATIA model into 3DVIA, the prerequisites are CATIA + 3DVIA.
- If the user uses DELMIA for computer aided manufacturing (CAM) and wants to import the DELMIA model into 3DVIA, the prerequisites are DELMIA +3DVIA.
- If the user uses CATIA and DELMIA and wants to import both kinds of data into 3DVIA, the prerequisites are CATIA + DELMIA + 3DVIA.

**3D Tribon Importer (CT9)**
- Operating system - Microsoft Windows XP Professional SP2
- Software requirements - CATIA V5.19 - MD2 or any configuration including it

**Virtual Die Tryout (DI9)**
- Operating system - Microsoft Windows XP Professional SP2 minimum
- Software requirements
  - Prerequisites - For DELMIA V5.19 product, DELMIA - Device Building 2 (DBG)
  - Prerequisites - CATIA V5.19 products
-- DMU Kinematics Simulator 2 (KIN)
-- CATIA - Structure Design 1 (SR1)
-- DMU Space Analysis 2 (SPA)

**Kinematics Merging Tools (CH9)**

- Operating system
  - Microsoft Windows XP Professional 32 bit - SP2 Minimum
  - Microsoft Windows XP Professional 64 bit - SP2 Minimum
- Software requirements - For CATIA V5.19 products
  - DMU Kinematics Simulator 2 (KIN)
  - CATIA - Product Knowledge Template 1 (KT1)
  - CATIA - PPR PDM Gateway 1 (PX1)

**CATIA V5 Automotive Extensions/Vehicle Architecture BPAs**

- CATIA V5 Automotive Extensions/Vehicle Architecture - Safety (CA9)
- CATIA V5 Automotive Extensions/Vehicle Architecture - Manikin (CM9)
- CATIA V5 Automotive Extensions/Vehicle Architecture - Overall Vehicle Architecture (CO9)
- CATIA V5 Automotive Extensions/Vehicle Architecture - Vision (CV9)
- CATIA V5 Automotive Extensions/Vehicle Architecture - Wiper (CW9)

  - Operating systems
  - Windows XP Professional SP2 (32-bit)
  - Windows XP Professional x64 Edition
  - Windows Vista x86
  - Windows Vista x64
  - AIX® 5.3 TL5-SP3 (using 64-bit kernel)
  - HP-UX 11i v1 (11.11)
  - Solaris 10 03/05

  **Note:** Requirements are according to minimum level for CATIA V5.19 as defined in the Program Directory.

- Software requirements - CATIA V5.19 MD2 or HD2 license

  **Note:** Minimal required version: CATIA V5.19.

**Collaborative Systems Lifecycle Management & Traceability (CS9)**

- Operating system - Microsoft Windows XP Professional SP2
- Software requirements
  - Microsoft Office 2007
  - ENOVIA SmarTeam V5.19 - ENOVIA SmarTeam Engineering configuration (SEG)

  **Note:** Collaborative Systems Lifecycle Management & Traceability (CS9) must be installed for Collaborative Systems Engineering Configuration (CE9) and Collaborative Systems Engineering Premium Configuration (CP9).

**Composite Document Generation (CD9)**

- Operating system - Microsoft Windows XP Professional SP2
- Software requirements - Microsoft Office 2007 SP1
  Prerequisites - ENOVIA SmarTeam V5.19 products, ENOVIA SmarTeam Engineering configuration (SEG)
Note: Composite Document Generation BPA (CD9) must be installed for Collaborative Systems Engineering Configuration (CE9) and Collaborative Systems Engineering Premium Configuration (CP9).

SmartDX Client (CX9)
- Operating system - Microsoft Windows XP Professional SP2
- Software requirements
  Prerequisites - SmartDX Client requires the installation of:
  - ENOVIA SmarTeam Editor (EDR) - Level ENOVIA SmarTeam V5.19
  - SmartDX (SX9) BPA

Note: For more details regarding the appropriate software required by SmartDX Client (CX9), refer to the installation guide or the hardware and software requirements provided by the software vendors.

Flexible PCB (FP9)
- Operating system
  - Microsoft Windows XP Professional SP2
  - Microsoft Windows XP Professional x64 Edition SP2
- Software requirements
  Prerequisites - The following CATIA V5.19 products or CATIA V5.19 PLM Express - Flexible PCB Design Option Pack:
    - CATIA - Sheetmetal Design (SMD)
    - CATIA - Circuit Board Design (CBD)

Power Feature (PF9)
- Operating system
  - BPA Power Feature is delivered on following 32-bit platform:
    - Microsoft Windows XP Professional SP2
    - AIX 5.3
    - Solaris 5.10
    - HP-UX 11i v1 (11.11)
  - BPA Power Feature is delivered on following 64-bit platform - Microsoft Windows XP Professional x64 Edition SP2.
- Software requirements
  Prerequisites
    - CATIA V5.19
  Licensing prerequisites - BPA Power Feature (PF9) can be used by three different end-user profiles:
    - Design users: Power Feature instantiation and edition (Power Feature CAD command)
    - NC Manufacturing users: MAF and Mfg pattern generation; Individual operation creation; Mfg Process Instantiation (Power Feature commands)
    - Design expert/administrators: Power Feature data definition (Standard CATIA commands)
  Prerequisite per profile
    - Design
      - CATIA - Knowledge Expert 1 (KE1)
- CATIA - Product Knowledge Template 1 (KT1)
- CATIA - Part Design 1 (PD1)

• Manufacturing
- CATIA - Wireframe & Surface 1 (WS1)
- CATIA - NC Manufacturing Review 2 (NCG)
- One of the following products
  -- CATIA - Prismatic machining Assistant (MPA)
  -- CATIA - Prismatic Machining Preparation Assistant 2 (MMA)
- One of the following products
  -- CATIA - Prismatic Machining 2 Product (PMG)
  -- CATIA - Prismatic Machining 2 Product (MPM)
  -- CATIA - Advanced Machining 2 Product (AMG)

• Export/Administrator
- CATIA - Product Knowledge Template Definition 2 (PKT)
- CATIA - Knowledge Expert (P2) (KWE)
- CATIA - Knowledge Advisor (KWA)

**Product Structure Synchronization for VPM V4 (PS9)**

Software requirements

• Prerequisites
  - VPM V4 1.6 PTF14 (Product Engineer: login, BOM, CATIAV5)
  - CATIA V5.19 (CATIA Assembly Design 2 (ASD))
  - ENOVIA 3d com V5.19 (PNR,VPL)

• UNIX®
  - AIX 5.3 TL04-SP1
  - Solaris 10 03/05 (SPARC)
  - HP-UX 11i v1 (11.11)

• Windows clients (ENOVIA 3d com V5.19)
  - Microsoft Windows XP Professional SP2
  - RAM 1 MB on 32-bit and RAM 2 MB on 64-bit
  - 32- and 64-bit

• DB2® V8.2.5, with level as specified in the ENOVIA VPMV4 V1.6 PTF 14 Program Directories

• LUM 4.6.8

• Installation
  - On CATIA V5 side, it is like any other CAA V5 application.
  - On VPM, PS9 code must be compiled and linked in customer VPM environment (user exit).

**Requirements Management (RM9)**

• Operating system - Microsoft Windows XP Professional SP2

• Software requirements
  - Microsoft Office 2007 SP1
  - ENOVIA SmarTeam V5.19 - ENOVIA SmarTeam Engineering configuration (SEG)
  - Html2xhtml DLL (provided with InfoPath 2007 Software Development Kit)

**Note:** Requirements Management (RM9) must be installed for Collaborative Systems Engineering Configuration (CE9) and Collaborative Systems Engineering Premium Configuration (CP9).
Requirements XML Edition (RX9)
- Operating system - Microsoft Windows XP Professional SP2
- Software requirements
  - Microsoft Office 2007 SP1
  - ENOVIA SmarTeam V5.19 - ENOVIA SmarTeam Engineering Configuration (SEG)
  - Html2xhtml dll (provided with InfoPath 2007 Software Development Kit)

  **Note:** Requirements XML Edition (RX9) must be installed for Collaborative Systems Engineering Premium Configuration (CP9).

ENOVIA SmarTeam/SAP Adaptor (SS9)
- Operating system - Microsoft Windows XP Professional SP2
- Software requirements
  - ENOVIA SmarTeam - Editor Configuration (SED) / Level: V5.18 SP2, V5.19
  - SAP R/3 from 3.11 to 4.7, ECC 5.0 (ERP 2004), ECC 6.0 (ERP 2005)

SmartProject (SP9)
- Operating system - Microsoft Windows Server 2003 SP2
- Software requirements
  - ENOVIA SmarTeam WEB Editor V5.19
  - Microsoft Excel 2003 (for reports and import/export of WBS)
  - Microsoft Project 2003 (optional for import/export)
  - PLM Database (if running with Demo database)

Progressive Die Strip Layout Design (SL9)
- Operating system - Microsoft Windows XP SP2 (same configurations as for MD2 CATIA V5 package)
- Software requirements - recommended configuration is CATIA V5.19 or CATIA Mechanical Design 2 Configuration (MD2) + CATIA Knowledge Template (KT1) + CATIA SheetMetal Design 2 (SMD) + CATIA Part Design Feature Recognition (FR1).
- CATIA V5.19
  - CATIA V5 Express Core Configuration (CAT) Module
    -- CATIA Assembly Design (AS1)
    -- CATIA Object Manager 2 (COM)
    -- CATIA CADAM Interface (CC1)
    -- CATIA Part Design (PD1)
    -- CATIA Generative Drafting 2 (GDR)
    -- CATIA V4 Integration 2 (V4I)
    -- CATIA Wireframe & Surface (WS1)
    -- IGES Interface (IG1)
    -- CATIA Interactive Drafting (ID1)
    -- Real Time Rendering (RT1)
    -- CATIA Knowledge Expert (KE1)
    -- CATIA Knowledge Template (KT1)
    -- CATIA Step Core Interface (ST1)
    -- ENOVIA SmarTeam (TDM)
    -- CATIA Instant Collaborative Design (CD1)
  - Fabricated Product Creation (FPE) Module
CATIA Weld Design (WD1)
CATIA SheetMetal Design 2 (SMD)
CATIA Part Design Feature Recognition (FR1)
CATIA Tooling Design (TG1)

or

CATIA Mechanical Design 2 Configuration (MD2)
CATIA Knowledge Template (KT1)
CATIA SheetMetal Design 2 (SMD)
CATIA Part Design Feature Recognition (FR1)

Dysfunctional Analysis & Simulation (SD9)

Requires JDK 1.6.

If using an Oracle database instance, the Oracle JDBC Drivers package must be installed on client workstations with Oracle Universal Installer. More details about the drivers are available in the Oracle 9i Client Installation Guide (Release 2 (9.2.0.1.0) for Windows) - Appendix A - Individual Components Available for Installation.

Minimum system requirement

- Operating system - Microsoft Windows XP Professional SP1+
- CPU: Intel® Pentium IV 1.4 Ghz or equivalent
- RAM: 512 MB
- Hard disk space: 50 MB free space
- Screen resolution: 1024 x 768 pixels, 65536 colors

Recommended system configuration

- Operating system: Windows XP SP1+, Windows 2000 SP3+
- CPU: Intel Pentium IV 3 Ghz or equivalent
- RAM: 1 GB
- Hard disk space: 1 GB free space
- Screen resolution: 1280 x 1024 pixels, 65536 colors

SmartDX (SX9)

SmartDX provides several APIs that can be used to embed additional custom-specific functionalities. These APIs are:

- Client side - AddValues - Library that enables the intercommunication with the user during the SmartDX Client Wizard
- Server side
  - BeforeCADBatch - Library that enables the customization prior to the CATIA batch process
  - CATIARename - Library to create a complex renaming rule to rename the CATIA documents
  - CustomSendMode - Library to create a custom specific transfer mode (example, transfer via ftp, upload to portal). Used if option 4 has been selected in the SmartDX wizard: customized transfer
  - FinishDX - Library that enables the customization/clean up at the end of the data exchange process
  - OdetteSendMode - Library to create a transfer mode using the Odette protocol. Used if option 3 has been selected in the SmartDX wizard: Odette transfer.
  - SendMail - Library to create an Email transfer mode using the SMTP server. Used if option 1 or 2 has been selected in the SmartDX wizard: mail transfer.
- **StructureFile** - Library to provide the capability to generate a different structure file format than the xml based structure file (such as ENGDAT V3 or STEP AP214 cc6).
- **ZipFile** - Library to provide the capability to compress the exchange data using Gzip, tar, winzip, and the like. A compress method is provided using pkzip. Use this for testing purpose. The executable is not part of the deliverables. Users can download the shareware on the pkzip homepage.
- **AfterDataExProcess** - Library that enables the customization/clean up at the end of the data exchange process

- Operating system (available on client as well as server) - Microsoft Windows XP Professional SP2
- Software requirements
  - CATIA V5.19
  - ENOVIA SmarTeam Editor (EDR) - Level: V5.19
  - ENOVIA SmarTeam - CATIA Team PDM (TDM) - Level: V5.19
  - SmartDX Server - Microsoft Net Framework 2.0

For additional details on the appropriate software required by SmartDX, refer to the installation guides and/or to the hardware and software requirements provided by software vendors.

*Weight&Balance for ENOVIA V5 (WC9)*

Operating system - Microsoft Windows XP Professional SP2

Software requirements

- ENOVIA V5.19
- CATIA V5.19

Product licenses required

- **Client side**
  - ENOVIA: ENOVIA VPM Navigator (VPN))
  - Examples of configuration including VPN: ENOVIA - VPM Product Design Configuration (DER) or ENOVIA - VPM DMU Review Configuration (VDM)
- **Server side**
  - ENOVIA - Multi-Tier Enterprise Architecture (T3A)
  - Examples of configuration including T3A:
    -- ENOVIA - Security Administrator Configuration (ADR)
    -- ENOVIA - Casual User Configuration (CUR)
    -- ENOVIA - Professional User Configuration (MGR)
    -- **or**
    -- ENOVIA - System and Data Administrator Configuration (RVR)
  - Optional
    -- CATIA - V4 Integration 2 (V4I) to process V4 models
    -- CATIA CPE or CPX (to process Composite parts)
    -- CATIA PD1 or PDG (for Distributive Analysis)

*CATIA Data Security (DS9)*

- Operating system - Microsoft Windows XP Professional SP2
- Software requirements - CATIA V5.19 - Object Manager (COM) (exists in any CATIA configuration) or DELMIA V5.19
Aralia Fault Tree Analyzer (FT9)
Operating system - Microsoft Windows XP Professional SP2

Planning information

Packaging

BPA packaging
- BPA Delivery 5 for V5R18 (V5.5) - One CD-ROM (in a single jewel case) (LCD7-2702)
- BPA Delivery 7 for V5R19 (V5R7) - Five CD-ROMs in a 5-CD plastic holder (LCD7-3641)
  - 1 CD BPA Delivery 7 for V5R19 for AIX 32 and 64-bit
  - 1 CD BPA Delivery 7 for V5R19 for HP-UX
  - 1 CD BPA Delivery 7 for V5R19 for Solaris
  - 1 CD BPA Delivery 7 for V5R19 for Windows 32- and 64-bit
  - 1 CD BPA Delivery 7 for V5R19 Documentation & Program Directory
- BPA Delivery 7 for V5R19 English Documentation and BPA V5.7 Program Directory - One CD-ROM in a single jewelcase (SK4T-3648)
- License Use Management (LUM) Runtime Version 4.6.8 + patch 4.6.8.3 1 CD in a Trim Pack (LCD4-7885)

Informal documents
- BPA V5R5 Software Registration Memo (GI11-6437-01)
- PLM Products Current User Memo (GI11-4403-01)
- BPA V5R7 Software Registration Memo (GI11-6450-01)
- BPA V5R7 Licensed Program Specifications (GI11-6436-03)

For Japan:
- BPA V5R5 Japanese Software Registration Memo (GI11-6438-01)
- BPA V5R7 Software Registration Memo (Japanese; GI11-9501-01)

Separately orderable documentation, BPA Delivery 7 for V5R19 (English; SK4T-3648-00)

Security, auditability, and control

The announced programs use 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.
Ordering information

Current licensees

Current licensees will receive this update from IBM Software Delivery and Fulfillment automatically.

Should the user require further assistance, contact your country IBM representative.

Shipment of this release of BPA is scheduled to be completed by August 28, 2009.

New licensees

Orders for new licenses can be placed now.

Unless a later date is specified, orders entered before the planned availability date will be assigned a schedule date of one week following availability.

Shipment will begin on the planned availability date.

Product ordering for CBS

Contact your IBM representative to place an order for BPA products.

The following ordering information applies to Germany only.

New BPA products

<table>
<thead>
<tr>
<th>Entitlement entity</th>
<th>Description</th>
<th>License option</th>
<th>Pricing metric</th>
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<tbody>
<tr>
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<tr>
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<td>AE9 Prod Variable Term Lic</td>
<td>Basic</td>
<td>YLC per User</td>
</tr>
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</table>

5672-AQ9 Advanced Product Quality Planning

| S015M6N           | AQ9 Prod Primary License             | Lic to Use         | PLC per User       |
| S015M6K           | AQ9 Prod Recurring License           | Basic              | ALC per User       |
| S015M6J           | AQ9 Prod Variable Term Lic           | Basic              | YLC per User       |

5672-TC9 3DSmartDocCreator Client

| S015M76           | TC9 Prod Primary License             | Lic to Use         | PLC per User       |
| S015M74           | TC9 Prod Recurring License           | Basic              | ALC per User       |
| S015M77           | TC9 Prod Variable Term Lic           | Basic              | YLC per User       |

5672-TS9 3DSmartDocCreator Server

| S015M6T           | TS9 Prod Primary License             | Lic to Use         | PLC per User       |
| S015M6P           | TS9 Prod Recurring License           | Basic              | ALC per User       |
| S015M6S           | TS9 Prod Variable Term Lic           | Basic              | YLC per User       |
The following ordering information applies to France, Ireland, Italy, Portugal, South Africa, Spain, and the United Kingdom only.

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</table>

### Product ordering for legacy systems

Contact your IBM representative to place an order for BPA products.

### New BPA products

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### 5672-AE9 Animation Exporter

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### 5672-AQ9 Advanced Product Quality Planning

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### 5672-TC9 3DSmartDocCreator Client

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<tbody>
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### 5672-TS9 3DSmartDocCreator Server

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</tr>
</thead>
<tbody>
<tr>
<td>RLC</td>
<td>TS9 Prod</td>
</tr>
</tbody>
</table>
Basic machine-readable material

System program order (5628-BP5)

The following information applies only to France, Germany, Ireland, Italy, Portugal, South Africa, Spain, and the United Kingdom:

To ship machine-readable materials and publications and to register for future updates, one system program order (5628-BP5) must be placed in addition to the basic license orders.

For each configuration/product ordered, the ShopPLM configurator will add the 5628-BP5 system program order (SPO) and assign the entitlement entity number for the orderable supply.

New orderable supplies

<table>
<thead>
<tr>
<th>5628-BP5</th>
<th>Distri-</th>
<th>Language</th>
<th>Description</th>
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<td>English</td>
<td>CD-ROM</td>
<td>3DSmartDocCreator Server (5672-TS9)</td>
</tr>
</tbody>
</table>

System program order (5628-BP5) for legacy systems

This information applies to all countries except France, Germany, Ireland, Italy, Portugal, South Africa, Spain, and the United Kingdom.

Programs are shipped under the 5628-BP5 system program order (SPO). The SPO is required for all program shipments and future updates.

Initial orders placed for a configuration/product without a corresponding order or MES for the 5628-BP5 SPO will either fail order validation or will not generate a media shipment. Each customer number must have its own SPO.

New 5628-BP5 program feature numbers

The following no-charge program feature numbers are used with the 5628-BP5 system program order. This information is used for shipment of media. The maximum quantity of each of the features that may be specified is one for each of the products.

<table>
<thead>
<tr>
<th>Feature number</th>
<th>Distribution medium</th>
<th>Environment</th>
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</thead>
<tbody>
<tr>
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<td>6157</td>
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<tr>
<td>5672-AQ9</td>
<td>CD-ROM</td>
<td>All platforms</td>
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<td>5672-TC9</td>
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<tr>
<td>6154</td>
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<td>5672-TS9</td>
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<td>All platforms</td>
</tr>
<tr>
<td>6155</td>
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</tr>
</tbody>
</table>

Media feature number

Within the system program order, specify the media feature number for each of the workstation platforms that apply.
**Initial orders**

When ordering the first configuration/product, an order must also be placed for the 5628-BP5 SPO. Both the configuration/product order and the SPO must be for the same CPU system type/system number and must have the same scheduled shipment date.

**Subsequent orders**

The SPO **must** have a feature number for every configuration/product that is installed or on-order. Therefore, when a configuration that was not previously installed is ordered, the SPO must be updated.

**To update an on-order system**

When a license for a new program is ordered for an on-order system, the 5628-BP5 SPO must be updated to reflect the feature number of the licensed program desired. Also, for asset registration and billing purposes an order for the individual licensed configuration/product required.

**To update an installed system**

When a license for a new configuration/product is ordered for an installed system, the 5628-BP5 SPO must be updated to reflect the feature number of the licensed program desired.

**Licensed documentation**

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.

**Global Technology Services**

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings for the efficient installation, implementation, and integration of this product.

**Terms and conditions**

**Location license applies**

No

**Use limitation applies**

Any usage exceeding the limitations requires a separate License and/or payment of further charges.

**Educational allowance available**

No

**License management**

All BPA’s except CATIA Data Security (DS9) implement LUM licensing mechanism (v4.6.8). The CATIA Data Security (DS9) BPA, while not LUM licensed-managed, requires a special encryption key for proper use. This key must be requested from the IBM Key Center. For instructions on obtaining this key, refer to the *Software Registration Information Memo*, (GI11-6450).
For All BPAs, except CATIA Data Security (DS9), the following licensing principles apply:

- Each BPA will require a license. Licenses for BPA are acquired and released for the total product. Different products within one configuration will need different licenses.
- BPA products will require a license, in addition to one for the prerequisite configuration and any prerequisite product, if applicable.

In all cases, licenses are acquired at the beginning of the process and are released at its termination.

Two license types are implemented:

- Nodelocked licenses: A nodelocked license allows the use of a BPA on the particular machine for which the license was created for as long as the license remains valid.
- Concurrent licenses: A concurrent license is a network license that can be temporarily granted to run the licensed BPA on a client. When the BPA is running, that license remains unavailable to other users of the product. When the product stops running the license is returned to the server, where it becomes available to other users. Concurrent licenses allow as many users to run a licensed BPA simultaneously as there are valid licenses for the BPA available from the network license servers in your licensing environment.

**Licensed program materials availability**

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

A Business Process Accelerators (BPA) configuration is defined as a bundling of BPA products, some or all of which may be available on an individual basis. When BPA products are purchased in a configuration, those BPA products can be used only by a single user at a given time.

**Volume orders**

Contact your IBM representative.

**Warranty applies**

Yes

**Licensed program materials availability**

Restricted Materials of IBM: None
Non-Restricted Source Materials: None
Object Code Only (OCO): All

**Program services**

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

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

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

http://www.ibm.com/account/profile/
If you have not yet associated the licensed IBM customer number to your IBM ID, you will be prompted to do so when accessing the problem submission facility.

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

Not all options of the Product Lifecycle Management (PLM) technical support e-services are available in all countries.

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

During the Program Services period, Corrective Service for Business Process Accelerator releases is delivered through service packs. A service pack includes corrections for Blocking Problems in production systems reported on this release and all corrections available for all components at the time it is built. Service packs are provided at the same time for all platforms currently supported. Each service pack is a refresh of the Business Process Accelerators.

**Note:** The general availability level of the BPA Delivery 7 for V5.19 code is equivalent to the V5.19 Service Pack 4 level, but will run with V5.19 GA through SP4 levels of the associated PLM V5 products. Subsequently, a corresponding BPA Delivery 7 service pack will be built for each V5.19 service pack, starting with Service Pack 5, and available approximately a month later. These BPA Delivery 7 and V5.19 PLM product service packs are synchronized and so the products must be run at the same service pack level.

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

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

Program Services will be provided for this release of the Business Process Accelerators (R507) until the end of support date for the PLM product it is associated with (that is, CATIA V425, CATIA V5.19, ENOVIA SmarTeam V5.19, ENOVIA VPM 1.6, or ENOVIA VPLM V5.19). If the Business Process Accelerator is associated with more than one PLM product, the end of support date will match the product with the earliest date.

Program Services for the Dysfunctional Analysis & Simulation BPA when running stand-alone (without any associated PLM product) will be provided until June 3, 2011.

**Note:** The prior level of the Business Process Accelerators (BPA Delivery 5 for V5.18) is being shipped to all customers ordering this product. The BPA Delivery 5 for V5.18 (BPA 5.5) code will maintain its previously-announced end of support dates.
For a list of all currently supported releases of CATIA, ENOVIA VPLM and ENOVIA SmarTeam products, visit

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