

# IBM Software Group Cross Sell Reference Guide

**Volume 2: Product Lifecycle Management Edition**

*For IBM Sellers and Business Partners*

April 2008



**Product Lifecycle Management**

**Sixth Edition (April 2008)**

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## Introduction

Welcome to the April 2008 update edition of the *SWG Cross Sell Reference Guide: Volume 2 – Product Lifecycle Management Edition*! This resource provides a brief description of all IBM Software Group PLM products and their relationships to each other. This information helps software sellers and architects better understand these IBM software offerings as well as promote cross selling within and between software brands, based on IBM products a customer has already purchased or is considering purchasing.

The key objective of this guide is to provide an easy-to-use printable and electronic resource that quickly summarizes the names and categories of all IBM Software Group products, the descriptions of these products, and how these products add value to each other.

The *SWG Cross Sell Reference Guide* currently has two separate volumes:

- Volume 1    Covers IBM's core branded middleware, including Information Management, Lotus, Rational, Tivoli, and WebSphere.
- Volume 2    Covers the Product Lifecycle Management line of products that IBM resells.

The guide is available for electronic download in Xtreme Leverage for IBMers and in PartnerWorld for IBM Business Partners. Simply search using the title of the document to quickly locate it. An updated version of the guide is posted, usually within 2 weeks of each new quarter, so be sure to check back for updates.

This edition contains 307 products and almost 300 product relationships. Maintaining this content would not be possible without the effort and expertise of our PLM team. The names of individual contributors for this particular update can be found on page 6.

Your feedback on the guide and ways to improve it are always welcome. Please send your comments and suggestions to:

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Good selling!



Terry Tyler  
*General Editor and Worldwide Sales Enablement Cross Brand Leader*  
*The Open Group Master Certified IT Architect*  
*IBM Software Group*

## Audience

This document is intended for IBM software sellers and architects, including IBM Business Partners, to assist in their understanding of the IBM SWG portfolio and how IBM products relate to each other. Understanding *cross-sell* or *complementary* offerings is critical to developing complete solutions to match each customer's unique needs and environment.

## Disclaimer

Information about *Included Software* and *Prerequisite IBM Software* is missing for many products. Many *Included Software* products have licensing or limited-use restrictions that are not annotated within this guide. Refer to the latest IBM announcement letters and support web site for the most complete and current product capability, compatibility, dependency, and licensing information.

## Contents and Usage

This volume only includes PLM products sold by IBM. The sections within the guide and their intended usage are described below.

### *Product Listings by Category*

This section lists PLM products by category and subcategory. Use this section to understand the specific products sold in each category and subcategory. Click on a product name to see where the product is described in the guide.

### *Product Listings by Name*

This section lists products alphabetically by name. Use this section to scan and identify products simply by their names. Click on a product name to see where the product is described in the guide.

### *Product and Relationship Descriptions*

This is the main section of the document which contains the descriptions and relationships for each product. This section is organized alphabetically by product and/or product-family name. Each entry contains the following information (when available):

Product Name	Included Software
Product Description	Prerequisite IBM Software
Product Id (PID)	Available Products/Editions (if a product family)
Previous Product Names	Related IBM Software

Use this section to understand the capabilities of a given product and how it relates to other products. Note that product relationships do not include product version or compatibility details.

To look up information on a particular product, simply find the product by its name – they are listed alphabetically. Review the related software products to see *how* other products relate to it. Use these relationships in building multi-product solutions and for cross selling. Turn to the product descriptions for the related product for additional information.

Cross sell opportunities can also exist by looking at *Included Products* as well as *Prerequisite IBM Software*, when shown. Look up the product information for entries listed there, as they themselves may have other related products and possible cross-sell opportunities.

The highlighted product titles shown throughout the main portion of the document contain hyperlinks to the product's home page. Use these links to access additional information about each product. If a PID value is shown for the product, click on the PID value to see a list of announcement letters that map to that PID. Products listed in relationships also contain hyperlinks to where each corresponding product is described within the guide.

## Acknowledgements

Worldwide SWG Sales Enablement would like to thank Dimitri Steijlen and Yann-Joel Lhuissier, who submitted updates for this edition.

# Product Listings by Category

This section contains a breakdown of products by category and subcategory.

## Product Lifecycle Management

### 3DVIA

#### 3DLive

- CATIA - 3DLive Configuration
- CATIA - Live FTA Review Product
- ENOVIA - 3DLive Configuration
- ENOVIA - Live Collaborative Review Product

### CATIA

#### Analysis

- CATIA - Elfini Structural Analysis 2
- CATIA - FEM Solid 2
- CATIA - FEM Surface 2
- CATIA - Generative Assembly Structural Analysis 2
- CATIA - Generative Dynamic Response Analysis 2
- CATIA - Generative Part Structural Analysis 1
- CATIA - Generative Part Structural Analysis 2
- CATIA - Tolerance Analysis of Deformable Assembly 3

#### Complementary

- CATIA - CADAM Drafting for V5 (add-on on config)

#### Equipment and Systems

- CATIA - Circuit Board Design 1
- CATIA - Compartment & Access 2
- CATIA - Electrical 3D Design & Documentation 1
- CATIA - Electrical Cableway Routing 2
- CATIA - Electrical Connectivity Diagrams 2
- CATIA - Electrical Harness Flattening 2
- CATIA - Electrical Harness Installation 2
- CATIA - Electrical Library 2
- CATIA - Electrical System Functional Definition 2
- CATIA - Electrical Wire Routing 2
- CATIA - Equipment Arrangement 2
- CATIA - Equipment Support Structures 2
- CATIA - Hanger Design 2
- CATIA - HVAC Design 2
- CATIA - HVAC Diagrams 2
- CATIA - Piping & Instrumentation Diagrams 2
- CATIA - Piping Design 2
- CATIA - Plant Layout 1
- CATIA - Raceway & Conduit Design 2
- CATIA - Ship Structure Detail Design 2
- CATIA - Structure Functional Design 2
- CATIA - Structure Preliminary Layout 2
- CATIA - Systems Diagrams 2
- CATIA - Systems Routing 1
- CATIA - Systems Space Reservation 2
- CATIA - Tubing Design 2
- CATIA - Tubing Diagrams 2
- CATIA - Waveguide Design 2
- CATIA - Waveguide Diagrams 2

#### Infrastructure

- CATIA - CADAM Interface 1
- CATIA - ENOVIAvpm Supply Chain Engineering Exchange 1
- CATIA - ENOVIAvpm Supply Chain Engineering Exchange 2
- CATIA - IGES Interface 1
- CATIA - Instant Collaborative Design 1

- CATIA - MULTICAx - AD Plug-In
- CATIA - MULTICAx - ID Plug-In
- CATIA - MULTICAx - IGES Plug-In
- CATIA - MULTICAx - PD Plug-in
- CATIA - MULTICAx - SE Plug-In
- CATIA - MULTICAx - SOLIDWORKS Plug-In
- CATIA - MULTICAx - STEP Plug-In
- CATIA - MULTICAx - UD Plug-In
- CATIA - Object Manager 1
- CATIA - Object Manager 1 to 2 Extension
- CATIA - Object Manager 2
- CATIA - Object Manager 3
- CATIA - PPR PDM Gateway 1
- CATIA - Product Data Filtering 1
- CATIA - STEP Core Interface 1
- CATIA - Strim/Styler to CATIA Interface 2
- CATIA - V4 Integration 1
- CATIA - V4 Integration 2

#### Machining

- CATIA - 3 Axis Surface Machining 2
- CATIA - Advanced Machining 2
- CATIA - Lathe Machining 1
- CATIA - Lathe Machining 2
- CATIA - Multi-Axis Surface Machining 2
- CATIA - Multi-Pocket Machining 2
- CATIA - Multi-Slide Lathe Machining 2
- CATIA - NC Machine Tool Builder 2
- CATIA - NC Machine Tool Simulation 2
- CATIA - NC Manufacturing Review 1
- CATIA - NC Manufacturing Review 2
- CATIA - NC Manufacturing Verification 2
- CATIA - Prismatic Machining 1
- CATIA - Prismatic Machining 2
- CATIA - Prismatic Machining Preparation Assistant 2
- CATIA - STL Rapid Prototyping 1
- CATIA - STL Rapid Prototyping 2

#### Mechanical Design

- CATIA - 2D Layout for 3D Design 1
- CATIA - 3D Functional Tolerancing & Annotation 1
- CATIA - 3D Functional Tolerancing & Annotation 2
- CATIA - Aerospace Sheetmetal Design 3
- CATIA - Assembly Design 1
- CATIA - Assembly Design 2
- CATIA - Cast & Forged Part Optimizer 2
- CATIA - Composites Design 3
- CATIA - Composites Design for Manufacturing 2
- CATIA - Composites Engineering 2
- CATIA - Core & Cavity Design 2
- CATIA - Functional Molded Parts 1
- CATIA - Functional Molded Parts 2
- CATIA - Generative Drafting 1
- CATIA - Generative Drafting 2
- CATIA - Healing Assistant 1
- CATIA - Interactive Drafting 1
- CATIA - Mold Tooling Design 2
- CATIA - Part Design 1
- CATIA - Part Design 2
- CATIA - Part Design Feature Recognition 1

CATIA - Sheetmetal Design 1  
CATIA - Sheetmetal Design 2  
CATIA - Sheetmetal Production 1  
CATIA - Structure Design 1  
CATIA - Tooling Design 1  
CATIA - Weld Design 1  
CATIA - Wireframe & Surface 1

### *Product Synthesis*

CATIA - Business Process Knowledge Template 2  
CATIA - Business Process Knowledge Template 3  
CATIA - DMU Dimensioning & Tolerancing Review 1  
CATIA - DMU Engineering Analysis Review 2  
CATIA - DMU Fastening Review 2  
CATIA - DMU Fitting Simulator 2  
CATIA - DMU Kinematics Simulator 2  
CATIA - DMU Navigator 1  
CATIA - DMU Navigator 2  
CATIA - DMU Optimizer 2  
CATIA - DMU Space Analysis 1  
CATIA - DMU Space Analysis 2  
CATIA - DMU Space Engineering Assistant 2  
CATIA - Flex Physical Simulation 2  
CATIA - Human Activity Analysis 2  
CATIA - Human Builder 2  
CATIA - Human Measurements Editor 2  
CATIA - Human Posture Analysis 2  
CATIA - Knowledge Advisor 2  
CATIA - Knowledge Expert 1  
CATIA - Knowledge Expert 2  
CATIA - Product Engineering Optimizer 2  
CATIA - Product Function Definition  
CATIA - Product Function Optimizer  
CATIA - Product Knowledge Template 1  
CATIA - Product Knowledge Template Definition 2

### *Shape Design & Styling*

CATIA - Automotive Body in White Fastening 3  
CATIA - Automotive Body In White Templates 2  
CATIA - Developed Shapes 1  
CATIA - Digitized Shape Editor 2  
CATIA - FreeStyle Optimizer 2  
CATIA - FreeStyle Profiler 2  
CATIA - FreeStyle Shaper 1  
CATIA - FreeStyle Shaper 2  
CATIA - FreeStyle Sketch Tracer 1  
CATIA - Generative Shape Design 1  
CATIA - Generative Shape Design 2  
CATIA - Generative Shape Optimizer 2  
CATIA - Imagine & Shape 2  
CATIA - Photo Studio 2  
CATIA - Photo Studio Optimizer 2  
CATIA - Quick Surface Reconstruction 2  
CATIA - Real Time Rendering 1  
CATIA - Real Time Rendering 2  
CATIA - Realistic Shape Optimizer 2  
CATIA - Shape Sculptor 2

## **ENOVIA MatrixOne**

### *Collaborative Product Engineering*

MatrixOne AutoCAD Integration  
MatrixOne Cadence Allegro Design Entry HDL Integration  
MatrixOne Cadence Allegro PCB Editor Integration  
MatrixOne Cadence Project Manager Integration  
MatrixOne CATIA V4 Integration  
MatrixOne CATIA V5 Integration  
MatrixOne Designer Central

MatrixOne Designer Central for Visualization  
MatrixOne Expedition (VeriBest) Integration  
MatrixOne Inventor Integration  
MatrixOne Mentor Graphics Design Manager Integration  
MatrixOne Microstation Integration  
MatrixOne Pro/ENGINEER Integration  
MatrixOne Pro/INTRALINK Integration  
MatrixOne Solid Edge Integration  
MatrixOne SolidWorks Integration  
MatrixOne Unigraphics Integration  
MatrixOne Zuken Board Designer Integration  
MatrixOne Zuken Board Producer Integration  
MatrixOne Zuken System Designer Integration

### *Compliance Management*

MatrixOne Materials Compliance Central  
MatrixOne Materials Compliance Central Compliance Connect Spreadsheet  
MatrixOne Materials Compliance Central Supplier Portal

### *Platform*

MatrixOne Adaplet Development Kit  
MatrixOne Application Development Kit  
MatrixOne Application Exchange Framework  
MatrixOne Autonomy K2 Integration  
MatrixOne Business Metrics Module  
MatrixOne Cimmetry AutoVue Professional w/Integration (2D)  
MatrixOne Cimmetry AutoVue Professional w/Integration (3D)  
MatrixOne Library Central  
MatrixOne Microsoft Desktop Integration  
MatrixOne Platform  
MatrixOne Platform for Development and Test  
MatrixOne Platform for File Collaboration  
MatrixOne Team Central

### *Portfolio Management*

MatrixOne Product Central  
MatrixOne Program Central  
MatrixOne VPLM Program Management Integration

### *Supplier Relationship Management*

MatrixOne Sourcing Central  
MatrixOne Supplier Central

### *Vertical*

MatrixOne Aerospace & Defense Accelerator for Program Management  
MatrixOne Apparel Accelerator for Design and Development  
MatrixOne Automotive Accelerator for Program Management (APQP)  
MatrixOne Medical Device Accelerator for Regulatory Compliance  
MatrixOne Semiconductor Accelerator

### *X-BOM Management*

MatrixOne ClearCase Integration  
MatrixOne Cost Analytics Module  
MatrixOne Engineering Central  
MatrixOne JD Edwards Direct Integration  
MatrixOne JD Edwards EnterpriseOne Integration  
MatrixOne Manufacturing Bill-of-Material Module  
MatrixOne Oracle Manufacturing Integration  
MatrixOne QAD MFG/PRO Integration  
MatrixOne SAP Integration  
MatrixOne Specification Central  
MatrixOne VPLM Enterprise X-BOM Management Integration



## **ENOVIA SmarTeam**

### *Business Solutions*

SMARTEAM - FDA Compliance  
SMARTEAM - Program Management

### *CAD Integrations*

SMARTEAM - AC Integration  
SMARTEAM - CATIA Integration  
SMARTEAM - IN Integration  
SMARTEAM - MD Integration  
SMARTEAM - MI Integration  
SMARTEAM - P Integration  
SMARTEAM - SE Integration

### *Collaboration Dashboards*

SMARTEAM - Community Workspace  
SMARTEAM - Editor  
SMARTEAM - Navigator  
SMARTEAM - Web Editor

### *Configurations (Bundles)*

CATIA Team PDM Configuration  
SMARTEAM - Community Workspace Configuration  
SMARTEAM - Development Suite Configuration  
SMARTEAM - Editor Configuration  
SMARTEAM - FDA Compliance Configuration  
SMARTEAM - Gateway Configuration  
SMARTEAM - Multi-Site Configuration  
SMARTEAM - Navigator Configuration  
SMARTEAM - Program Management Configuration  
SMARTEAM - Web Editor Configuration

### *Enterprise Services*

SMARTEAM - Development Suite  
SMARTEAM - Foundation  
SMARTEAM - Gateway  
SMARTEAM - Multi-site

### *User Services*

SMARTEAM - BOM  
SMARTEAM - CATIA Supplier Relational Design  
Exchange  
SMARTEAM - Workflow

## **ENOVIA VPLM**

### *3d com Navigator*

ENOVIA - 3d com Space Analysis  
ENOVIA - MULTI PDM - OP Plug-In  
ENOVIA - MULTI PDM - SMARTEAM Plug-In

### *3d com Navigator Configurations (Bundles)*

ENOVIA - 3d com CAD Viewing Configuration  
ENOVIA - 3d com Navigator Configuration  
ENOVIA - 3d com VPM Web Client Configuration  
ENOVIA - 3d com Web Navigator Configuration

### *DMU*

ENOVIA - DMU Digital Plant & Ship Review 1  
ENOVIA - DMU Dimensioning & Tolerancing Review 1  
ENOVIA - DMU Engineering Analysis Review 2  
ENOVIA - DMU Fastening Review 2  
ENOVIA - DMU Fitting Simulator 2  
ENOVIA - DMU Kinematics Simulator 2  
ENOVIA - DMU Optimizer 2  
ENOVIA - DMU Space Analysis 1  
ENOVIA - DMU Space Analysis 2

ENOVIA - Human Activity Analysis 2  
ENOVIA - Human Builder 2  
ENOVIA - Human Measurements Editor 2  
ENOVIA - Human Posture Analysis 2  
ENOVIA - Photo Studio 2  
ENOVIA - Photo Studio Optimizer 2  
ENOVIA - Real Time Rendering 1  
ENOVIA - Real Time Rendering 2

### *DMU Configurations (Bundles)*

ENOVIA - DMU Digital Product Synthesis 2  
Configuration  
ENOVIA - DMU Human Simulation 2 Configuration  
ENOVIA - DMU Immersive Review 3 Configuration  
ENOVIA - DMU Review 1 Configuration  
ENOVIA - DMU Review 2 Configuration  
ENOVIA - DMU Viewer 1 Configuration

### *Lifecycle Applications*

ENOVIA - Action Editor  
ENOVIA - Document Management  
ENOVIA - Engineering Change Management  
ENOVIA - LCA Enterprise Process Definition  
ENOVIA - LCA Product Simulation Management  
ENOVIA - LCA Workflow Definition  
ENOVIA - PPR Hub Gateway  
ENOVIA - PPR Hub SA Adapter  
ENOVIA - PPR Hub STEP PART 21 Adapter  
ENOVIA - Product Variant Management  
ENOVIA - Program Management  
ENOVIA - Supply Chain Exchange

### *Lifecycle Applications Configurations (Bundles)*

ENOVIA - Casual User Configuration  
ENOVIA - LCA Enterprise Process Management  
Configuration  
ENOVIA - LCA Product Lifecycle Management  
Configuration  
ENOVIA - LCA Product Lifecycle Review Configuration  
ENOVIA - LCA System & Users Administration  
Configuration  
ENOVIA - Professional User Configuration  
ENOVIA - Security Administrator Configuration  
ENOVIA - System and Data Administrator Configuration  
ENOVIA - Vault Administrator Configuration

### *MultiCAX*

ENOVIA - MULTICAX - AD Plug-In  
ENOVIA - MULTICAX - ID Plug-In  
ENOVIA - MULTICAX - PD Plug-In  
ENOVIA - MULTICAX - SE Plug-In  
ENOVIA - MULTICAX - SOLIDWORKS Plug-In  
ENOVIA - MULTICAX - STEP Plug-In  
ENOVIA - MULTICAX - UD Plug-In

### *V5 VPM*

ENOVIA - Structure Penetration Management  
ENOVIA - VPM Electrical Cable Route Management  
ENOVIA - VPM Supply Chain Engineering Exchange

### *V5 VPM Configurations (Bundles)*

ENOVIA - VPM DMU Review Configuration  
ENOVIA - VPM Engineering Configuration  
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## Product and Relationship Descriptions

### CATIA - 2D Layout for 3D Design 1

5691-LO1,5693-LO1

CATIA - 2D Layout for 3D Design 1 (LO1) is a new generation product dedicated to accelerate the 3D conceptual design process. It is a product where a designer works in a 3D environment with embedded 2D drafting capabilities. During the conceptual phase of a project. It enables the designer to work in a familiar drafting workbench with multi views capabilities. Users can create layout views containing geometry while getting the most of other key capabilities such as dimensions, annotations, dress-up, 2D components and constraints.

**Prerequisite IBM Software:** CATIA - Part Design 1, CATIA - Part Design 2

### CATIA - 3 Axis Surface Machining 2

5691-SMG,5693-SMG

CATIA - 3 Axis Surface Machining 2 (SMG) easily defines 3-axis milling and drilling operations. High Speed Milling Technology is supported for all milling operations. Quick tool path definition is based on an intuitive user interface. Tools can be easily created and stored in tool catalogs. The entire manufacturing process is covered; tool path definition and computation, tool path verification (including material removal simulation to numerical control (NC) code) and shop floor documentation generation.

**Prerequisite IBM Software:** CATIA - NC Manufacturing Review 2

### CATIA - 3D Functional Tolerancing & Annotation 1

5693-FT1

CATIA - 3D Functional Tolerancing & Annotation 1 (FT1) is a Platform 1 product which creates and manages 3D associative tolerance specifications and annotations of part and products. Parts and products can be toleranced- in an assembly context, and resulted annotations displayed in the 3D environment using annotation planes. With a comprehensive set of associative annotations for 3D views and a full compliancy with latest revisions of major international standards (ISO, ANSI, JIS), this product increases the use of 3D as master representation, reducing reliance on 2D drawings.

**Related IBM Software:**

CATIA - DMU Dimensioning & Tolerancing Review 1 DT1 can be used to review FT1 information.

### CATIA - 3D Functional Tolerancing & Annotation 2

5691-FTA,5693-FTA

CATIA - 3D Functional Tolerancing & Annotation 2 (FTA) creates and manages 3D associative tolerance specifications and annotations of part and products. They also can be toleranced- in an assembly context. and resulted annotations displayed in the 3D environment using annotation planes. This product reduces reliance on 2D drawings and increases the use of 3D as the master representation. 3D annotations can be extracted, using the annotation plane concept in CATIA Generative Drafting products.

**Related IBM Software:**

CATIA - DMU Dimensioning & Tolerancing Review 1 DT1 can be used to view FTA generated annotations.

### CATIA - 3DLive Configuration

5677-LIC

CATIA — 3DLive enables any enterprise user to search and navigate on ENOVIA SmarTeam or locally stored PLM information for on-demand, real-time 3D collaboration that brings PLM Intellectual Property to life. This configuration turns PLM data and associated intellectual property into business intelligence by leveraging a unique user experience that combines simple and intuitive navigation with rapid and efficient search capabilities.

Services based on the Dassault Systèmes V5 services-oriented architecture allows CATIA— 3DLive users to access multiple PLM information sources (including ENOVIA SmarTeam, CATIA and 3D XML files) while leveraging advanced collaboration scenarios between all the stakeholders. This configuration also enables 3DLive system administrators to create and define the settings of 3DLive for end users through the 3DVIA — 3DLive Product (DSN) extensions included with this configuration.

**Included Software:** IBM WebSphere Application Server (if implementing SSO), IBM Lotus Sametime Standard, IBM DB2 Enterprise Server Edition, IBM Tivoli Directory Server

### CATIA - Advanced Machining 2

5691-AMG,5693-AMG

CATIA - Advanced Machining 2 (AMG) easily defines numerical control (NC) programs to machine complex 3D parts within a single workbench. The product offers machining operations covering milling from 2.5-axis mode up to 5-axis mode as well as axial machining. In addition to the complete set of machining operations offered by other V5 NC Manufacturing products like CATIA Prismatic Machining 2 (PMG), 3 Axis Surface Machining 2 and Multi-Axis Surface Machining 2, this product introduces multi-axis flank contouring and advanced multi-axis processes.

**Prerequisite IBM Software:** CATIA - NC Manufacturing Review 2

### CATIA - Aerospace Sheetmetal Design 3

5693-ASL

CATIA - Aerospace Sheetmetal Design 3 (ASL) is a product dedicated to the definition of sheet metal parts used in the aerospace industry (hydro-pressed or break-formed). Based on both specification-driven and generative approaches, this product will allow typical hydro-formed aerospace parts to be easily specified, the system taking care of creating both 3D and flattened part geometry.

**CATIA - Assembly Design 1****5693-AS1**

CATIA - Assembly Design 1 (AS1) manages assemblies giving you the ability to design in an assembly context with user-controlled associativity as well as the capability to concurrently engineer the design of the assembly and individual parts. It allows you to establish mechanical assembly constraints using mouse movements or graphical commands to snap parts into position.

**CATIA - Assembly Design 2****5691-ASD,5693-ASD**

CATIA - Assembly Design 2 (ASD) manages multi-format product definitions with constraints and component positions, to support collaboration across multiple environments. It gives you the ability to design in assembly context with a user-controlled associativity, to perform concurrent engineering between the design of the assembly and the design of individual components through hierarchical assemblies. Tools like constraint validation, publication, and degree of freedom analysis combined with collision and clearance checking are included.

**CATIA - Automotive Body in White Fastening 3**

CATIA - Automotive Body-In-White Fastening 3 (ABF) is dedicated to the design of Automotive Body-In-White Fasteners. This product supports welding technologies and mechanical clinching, along with adhesives, sealers, and mastics. You are provided with intuitive tools to create and manage spot like fasteners.

**CATIA - Automotive Body In White Templates 2****5691-ABT,5693-ABT**

CATIA - Automotive Body in White Templates 2 (ABT) is a product that uses unique skilled features to boost body in white design phase productivity. These powerful features allow body in white design teams to quickly create or modify a car body in an associative styling and engineering context. For instance, a user can create an associative shape, place welding points on it, and then assemble the two parts with unprecedented rapidity.

*Prerequisite IBM Software:* CATIA - Generative Shape Design 2

**CATIA - Business Process Knowledge Template 2****5691-BK2,5693-BK2**

CATIA - Business Process Knowledge Template 2 (BK2) allows companies to model any of their best practices and know-how. It's done in a simple and intuitive way without coding, from complex conceptual studies in automotive to airframe structure generation. For instance, you are able to capture, model, automate design and engineering tasks, and embed core-knowledge rules and checks within those tasks.

**CATIA - Business Process Knowledge Template 3**

CATIA - Business Process Knowledge Template 3 (BKT) allows companies to model any of their best practices and knowledge. It's done in a simple and intuitive way without coding, from complex conceptual studies in automotive to airframe structure generation. The users have access to these high level V5 pseudo-applications in the same way they have access to any of the CATIA V5 products.

**CATIA - CADAM Drafting for V5 (add-on on config)****5693-CCD**

CATIA - CADAM Drafting for V5 Products (CCD) supports 2D and 2+ D design and drafting, including variational design, permitting automatic and user-specified parametric, geometric and functional constraints.

*Prerequisite IBM Software:* CATIA - Interactive Drafting 1

**CATIA - CADAM Interface 1****5691-CC1,5693-CC1**

CATIA - CADAM Interface 1 (CC1) product provides you with an integrated capability to share 2D drafting information between CATIA CADAM Drafting (CCD) and V5 Drafting products.

*Prerequisite IBM Software:* CATIA - Interactive Drafting 1

**CATIA - Cast & Forged Part Optimizer 2****5691-CFO,5693-CFO**

CATIA - Cast & Forged Part Optimizer 2 (CFO) is dedicated to the detailed design of molded & forged parts. It delivers advanced part design functions that extend the power of Dress-up features. Dedicated to the Casting and Forging process. A powerful autofillet generation tool is included for molded & forged parts.

*Prerequisite IBM Software:* CATIA - Part Design 2

**CATIA - Circuit Board Design 1****5691-CBD,5693-CBD**

CATIA Circuit Board Design 1 (CBD) enables you to design circuit boards in the context of the overall mechanical design. Through the bidirectional interface (Intermediate Data Format (IDF)) with industry standard electrical CAD systems, you can retrieve the design of its electronic components to create a complete digital mock-up of the Printed Circuit Boards (PCB). This enables you to analyze if the design of the PCB fits inside its mechanical environment. The interface also enables you to send pertinent information, such as "board outlines" and "keep out" areas of spatial and technological constraints, back to the electrical CAD system.

**CATIA - Compartment & Access 2****5691-CNA,5693-CNA**

CATIA Compartment and Access 2 (CNA) is dedicated to the definition of compartment and access objects within a ship design. Its workbench provides the user with the ability to define wall systems/non-structural bulkheads within their design. From these wall systems, the user can generate extensive compartment definitions including compartment boundary definitions. In addition, the user may place access objects such as closures, stairs or ladders within their design. The compartment and access objects include both

a geometric representation and a technological representation (type and attributes) of the object. This allows both geometry and technological query and analysis on compartment and access related objects. As part of the design process, the user may also define and generate reports based on any compartment and access objects and use the standard CATIA V5 Drafting tools to generate detailed drawings.

### **CATIA - Composites Design 3**

CATIA - Composites Design 3 (CPD) is an advanced composites process centric solution that allows manufacturers to reduce the time needed to design composites parts. It delivers tools to cover both the preliminary and detailed design phases while taking into account, even at the concept stage, the product's requirements for finite element analysis and manufacturability.

### **CATIA - Composites Design for Manufacturing 2**

**5691-CPM,5693-CPM**

CATIA - Composites Design for Manufacturing 2 (CPM) provides process oriented tools for manufacturing preparation of composites parts. With its synchronization capabilities, it is the essential link between engineering design and physical manufacturing, allowing suppliers to closely collaborate with their OEMs in the composite design process. Manufacturing engineers can include all manufacturing and producibility constraints in the composites design process.

### **CATIA - Composites Engineering 2**

**5691-CPE,5693-CPE**

CATIA - Composites Engineering Design (CPE) provides process-oriented tools dedicated to the design of composites parts from preliminary to engineering detailed design. Automatic ply generation, exact solid generation, analysis tools such as fiber behavior simulation and inspection capabilities are just some of the essential components of this product. By enabling users to embed manufacturing constraints earlier in the conceptual design stage, this product shortens the design-to-manufacturing period.

### **CATIA - Core & Cavity Design 2**

**5691-CCV,5693-CCV**

CATIA - Core and Cavity Design 2 (CCV) allows rapid and cost effective design of the core and cavity used in mold tooling or manufacturing equipments. This product provides a fast splitting tool that takes a surfacic or solid part and separates it into core and cavity with sliders and loose cores. It is a stand-alone product that determines the ability of a component to be manufactured. This product also allows you to fill up technological holes within the core and cavity surfaces, identify the parting lines and to generate the parting surfaces.

### **CATIA - Developed Shapes 1**

**5691-DL1,5693-DL1**

CATIA - Developed Shapes 1 (DL1) quickly and easily unfolds ruled and unruled surfaces and develops curves on revolution surfaces. Design engineers, both non-surface specialists and advanced-shape designers, can define an associative flattened pattern from their 3D models for manufacturing from flat sheets of raw materials. .

### **CATIA - Digitized Shape Editor 2**

**5691-DSE,5693-DSE**

CATIA - Digitized Shape Editor 2 (DSE) addresses digitalized data import, clean up, tessellation, cross sections, character line, shape and quality checking with real time diagnosis. The inspection process can be directly handled with this product by utilizing alignment between Clouds of points and CAD models.

### **CATIA - DMU Dimensioning & Tolerancing Review 1**

**5693-DT1**

CATIA - DMU - Dimensioning and Tolerancing Review 1 (DT1) is dedicated to visualization, querying and filtering of mechanical dimensioning and tolerancing as well as 2D Layout information in the context of the immersive and collaborative design review environment of the full digital mockup (DMU).

### **CATIA - DMU Engineering Analysis Review 2**

**5691-ANR,5693-ANR**

CATIA - DMU Engineering Analysis Review 2 (ANR) provides the capability for access and review of the analysis results generated through CATIA Generative Part Structural Analysis 2, CATIA Generative Assembly Structural Analysis 2, CATIA Elfini Structural Analysis 2, CATIA FEM Surface 2, or results created by third party CAA applications.

### **CATIA - DMU Fastening Review 2**

**5691-FAR,5693-FAR**

CATIA - DMU Fastening Review 2 (FAR) is dedicated to the validation and the documentation of fasteners in the frame of the collaborative automotive Body in White fasteners process. This product suits both company teams--such as DMU, Product Synthesis and Structural Analysis--and product design suppliers, such as part designers and prototype makers.

### **CATIA - DMU Fitting Simulator 2**

**5691-FIT,5693-FIT**

CATIA - DMU Fitting Simulator 2 (FIT) is dedicated to the definition, simulation and analysis of assembly/disassembly operations to validate a product design regarding the feasibility of its maintenance operations (assembly and disassembly operations). It generates useful information on space reservation for the dismantling operations, to be taken into account in future design modifications. The product also helps identify a trajectory allowing the dismantling of an assembly.

### **CATIA - DMU Kinematics Simulator 2**

**5691-KIN,5693-KIN**

CATIA - DMU Kinematics Simulator 2 (KIN) defines mechanisms for digital mock-ups of all sizes. It simulates mechanism motion with mouse-based manipulation and analyzes it through checking interferences and computing minimal distances. Traces or swept volume of moving parts can be generated.

**CATIA - DMU Navigator 1****5693-DN1**

CATIA - DMU Navigator 1 (DN1) performs collaborative digital mock-up (DMU) reviews using powerful visualization, navigation and communication capabilities. A large number of tools (annotation support, hyperlink and animation creation, publishing and conferencing tools) facilitate collaboration between all team members involved in the digital mock-up inspection.

**CATIA - DMU Navigator 2****5691-DMN,5693-DMN**

CATIA - DMU Navigator 2 (DMN) performs advanced collaborative DMU reviews, packaging and pre-assembly using optimum visualization, navigation and communication capabilities. High graphic performance is provided. A large number of tools facilitate collaboration between all team members involved in the DMU inspection. Batch mode can be used to further improve cache management. Combined kinematics and fitting simulations can be performed to extend review capabilities.

**CATIA - DMU Optimizer 2****5691-DMO,5693-DMO**

CATIA - DMU Optimizer 2 (DMO) creates alternate representations of products and assemblies for size reduction or geometry creation better adapted to specific contexts. Thus, you can create reduced but accurate representations of parts or assemblies by keeping only their external representation. You can generate simplified representations of parts, ensuring confidentiality protection when communicating with suppliers.

**CATIA - DMU Space Analysis 1****5693-SP1**

CATIA - DMU Space Analysis 1 (SP1) performs interference detection and 3D geometry comparison for DMU verification. It computes clash, clearance, and contact information and enables users to view conflict details. 3D geometries can also be compared and the result can be visualized in a dedicated viewer where sectioning and measurement on the section are available to further understand and assess differences between them.

**CATIA - DMU Space Analysis 2****5691-SPA,5693-SPA**

CATIA - DMU Space Analysis 2 (SPA) performs optimum DMU verification using advanced interference detection and analysis, superior sectioning analysis, measurement, distance analysis and 3D geometry comparison tools. Interferences can be detected interactively or in batch mode, analyzed, and results can be saved. Tools are included in the product for distance analysis and 3D geometry comparison. Distance analysis of motion simulations and animation of sectioning results are possible through integration with other DMU products.

**CATIA - DMU Space Engineering Assistant 2****5691-SPE,5693-SPE**

CATIA - DMU Space Engineering Assistant 2 (SPE) performs automatically or manually interference analysis according to predefined clash rules. Knowledgeware rules, defined in CATIA Knowledge Expert 2, can pilot interference analysis, ensuring best practice compliance to corporate design. Interference analysis results can be stored in the ENOVIA LCA V5 products data management.

**Prerequisite IBM Software:** CATIA - DMU Space Analysis 2

**CATIA - Electrical 3D Design & Documentation 1****5691-EC1,5693-EC1**

CATIA Electrical 3D Design and Documentation 1 (EC1) provides dedicated 3D harness design and documentation toolset. Based on functional specifications imported from schematic systems the user can easily define the electrical system in the 3D digital mockup. Out of this the user can easily generate harness manufacturing documentation. This end-to-end product enables the user to reduced time and cost for creating its electrical system both in the DMU to avoid interferences and to create up to date manufacturing documentation.

**CATIA - Electrical Cableway Routing 2****5691-ECR,5693-ECR**

CATIA Electrical Cableway Routing 2 (ECR) allows you to define 3D implementation for all existing electrical components defined in the electrical diagrams. It automatically manages creation of reservation items and placement according to electrical connectivity information (diagrams) and compartment definition. You can solve complex cable routing problems within the context of the digital mock-up. By using it, you can integrate both electrical and mechanical behaviors, capitalizing on CATIA V5 knowledge-based applications.

**CATIA - Electrical Connectivity Diagrams 2****5691-ELD,5693-ELD**

CATIA Electrical Connectivity Diagrams 2 (ELD) is designed to allow you to create and manage logical designs of power distribution and command systems using industry standard conventions, terminology and practices. In addition, captured intelligence, in the form of smart diagrams, can be reused for downstream design processes. It can be used to create and manage logical 3D Plant and Ship designs, such as Atomic power plants, electrical distribution, special machines, automation lines and robot integration.

**Included Software:** CATIA - Systems Diagrams 2

**Related IBM Software:**

CATIA - Electrical Cableway Routing 2 To define your 3D cableway routing.

**CATIA - Electrical Harness Flattening 2****5691-EHF,5693-EHF**

CATIA Electrical Harness Flattening 2 (EHF) enables you to flatten your 3D electrical wire harnesses and produce 2D associative drawings for inspection and documentation purpose. It extracts 3D electrical data and provides a flattened view of the electrical wire harness. It provides tools to manipulate bundle segments to reach the adequate solution. 3D Mechanical constraints defined with



CATIA Electrical Harness Installation 2 (EHI) are preserved, so that bend radius and length of bundle segment are still constrained.

### **CATIA - Electrical Harness Installation 2**

**5691-EHI,5693-EHI**

CATIA Electrical Harness Installation 2 (EHI) is a product dedicated to the design of physical harnesses within the context of the 3D digital mock-up. Natively, the mechanical context is used as an input for electrical design and then to obtain a complete integration. Easy modifications and associations between the 3D environment and the harness are available. Complete integration between the functional and physical definitions of the electrical harness is provided.

### **CATIA - Electrical Library 2**

**5691-ELB,5693-ELB**

CATIA Electrical Library 2 (ELB) allows users to create and manage catalogs containing electrical components. It extends mechanical parts and assemblies with electrical behaviors to define electrical components (connectors and equipments). These can be stored in catalogs in the same way as mechanical parts/assemblies. When the components are placed from the catalog in the 3D digital mock-up, it takes into account all predefined mechanical constraints, this allowing a correct use/placement of the devices.

### **CATIA - Electrical System Functional Definition 2**

**5691-EFD,5693-EFD**

CATIA Electrical System Functional Definition 2 (EFD) is dedicated to the functional design of electrical systems and addresses the first stage in the electrical system engineering process. This product is Controlled Available.

### **CATIA - Electrical Wire Routing 2**

**5691-EWR,5693-EWR**

CATIA Electrical Wire Routing 2 (EWR) generates electrical wires within the digital mock-up, according to the functional or wiring specifications. The wires are routed according to specifications coming from external electrical CAD systems. The wires are generated in a bundle network designed with the CATIA Electrical Harness Installation 2 (EHI). It allows you to capture and reuse corporate know-how during the routing process. Analysis capabilities such as bundle content are provided as well as reports about wire routing for harness manufacturing.

### **CATIA - Elfini Structural Analysis 2**

**5691-EST,5693-EST**

CATIA Elfini Structural Analysis 2 (EST) extends the capabilities of the Generative Part Structural Analysis 2 (GPS) product to include multiple analysis cases for static, frequency, and buckling analysis. This product is more tailored to the needs of specialists while maintaining a consistent user interface between specialists and design engineers. This common user interface promotes the teamwork between various disciplines to shorten the design analysis turnaround time.

**Prerequisite IBM Software:** CATIA - Generative Part Structural Analysis 2

### **CATIA - ENOVIAvpm Supply Chain Engineering Exchange 1**

**5693-EW1**

CATIA - ENOVIAvpm Supply Chain Engineering Exchange 1 (EW1) supports the ability to Export/Import CATIA V5 product data and associated CATIA V5 links from an OEM site to the subcontractor site which is disconnected from the OEM ENOVIA database.

### **CATIA - ENOVIAvpm Supply Chain Engineering Exchange 2**

**5691-EWE,5693-EWE**

CATIA ENOVIAvpm Supply Chain Engineering Exchange 2 (EWE) supports the ability to Export/Import CATIA V5 product data and associated CATIA V5 links from an OEM site to the subcontractor site which is disconnected from the OEM ENOVIA database. The OEM defines a work context in ENOVIA VPM V4 or V5 and loads all associated data in CATIA V5. Then the OEM generates "mobile" files and provides them to the supplier. Afterwards, the supplier, thanks to CATIA ENOVIAvpm Supply Chain Engineering Exchange 1 (EW1), makes all data modification or creation requested by the OEM and sends back updated "mobile" files.

### **CATIA - Equipment Arrangement 2**

**5691-EQT,5693-EQT**

CATIA Equipment Arrangement 2 (EQT) is used to build and manage all types of equipment and systems found in several products and production facilities. It can be used to build and manage equipment such as boilers, pumps, and heat exchangers as well as brake units, valves and several control systems. The tools are focused on creating intelligent representations and arrangements of equipment with attached attribute data, allowing full specification, within the context of the overall system.

### **CATIA - Equipment Support Structures 2**

**5691-ESS,5693-ESS**

CATIA Equipment Support Structures 2 (ESS) allows you to design structure assemblies built from raw laminated heavy steel members and plates. It allows associative design, and provides trade oriented user interface and cataloging of standard steel sections to maximize designer productivity. In addition it includes a parametric catalog through design tables, and generates user-customizable Bill of Materials (BOMs).

### **CATIA - FEM Solid 2**

**5691-FMD,5693-FMD**

CATIA FEM Solid 2 (FMD) provides advanced mesh specification controls and a tetrahedron filler to extend the capabilities of CATIA Generative Part Structural Analysis 2 (GPS) on complex solid parts. Once it generates the mesh CATIA GPS can be used to perform the analysis process. As an integrated product, it works with the CATIA design products to mesh specifications associated with design changes, enabling you to generate high-quality designs in a very short time.

**Prerequisite IBM Software:** CATIA - Generative Part Structural Analysis 2

### **CATIA - FEM Surface 2**

**5691-FMS,5693-FMS**

CATIA FEM Surface 2 (FMS) provides an advanced mesher for automatic and associative generation of a finite element model on surface parts and wireframe geometries. Based on a topological engine, it provides advanced control for the generation of the finite

element, saving significant time. You can generate finite elements for assembly joints, including spot and seam welding among other fasteners, and analyze the mesh quality according to predefined and customizable criteria.

**Prerequisite IBM Software:** CATIA - Generative Part Structural Analysis 2

### **CATIA - Flex Physical Simulation 2**

**5691-FLX,5693-FLX**

CATIA - Flex Physical Simulation 2 (FLX) enriches the design with realistic deformation of flexible harnesses by taking into account environmental conditions, like gravity and physical non-linear behavior of the harness, and its protections. The imbedded technology of behavior simulation facilitates the harness design in the simplest manner, and it introduces reality in the early design phase by leveraging CATIA Electrical Harness Installation (EHI) usage as a co-requisite.

### **CATIA - FreeStyle Optimizer 2**

**5691-FSO,5693-FSO**

CATIA - Freestyle Optimizer 2 (FSO) extends the shape and surface modeling functions of CATIA Freestyle Shaper 2 (FSS) to the morphing of complex, multi-surface shapes. Designers can globally change multiple surfaces as if they were a single patch while preserving the previously prescribed design characteristics. To verify the quality of surface designs, you can conduct a virtual showroom inspection with real-life cubing visualized by computed reflect lines from a neon row.

**Prerequisite IBM Software:** CATIA - FreeStyle Shaper 2

### **CATIA - FreeStyle Profiler 2**

**5691-FSP,5693-FSP**

CATIA - Freestyle Profiler 2 (FSP) addresses intuitive dynamic surface creation by sweeping a profile curve along multiple guides. This product offers associative Styling Sweeps and associative Net Surfaces tools to cover the need for complex profiled surfaces. All types of FreeStyle analysis are provided e.g. curvature analysis, cutting plane, distance analysis, environment mapping and isophotes.

### **CATIA - FreeStyle Shaper 1**

**5693-FS1**

CATIA - Freestyle Shaper 1 (FS1) is a P1 product which provides easy to use surface-based tools to create aesthetic shapes. From scratch or from digitized data, designers can create productive 3D freeform curves and surfaces shape, with capability of real time interactive deformation which allows adjustment of the design to the desired aesthetic and quality level, while respecting continuity specifications. To ensure quality, real-time quality checking is available through extensive curve and surface diagnosis tools.

### **CATIA - FreeStyle Shaper 2**

**5691-FSS,5693-FSS**

CATIA - Freestyle Shaper 2 (FSS) provides powerful easy to use surface-based tools to help designers create styled shapes, enabling even casual users to easily smooth and trim curves and surfaces. Real-time quality checking is possible through extensive industry-oriented curve and surface diagnosis tools to ensure quality.

### **CATIA - FreeStyle Sketch Tracer 1**

**5693-FSK,5693-FSK**

CATIA - Freestyle Sketch Tracer 1 (FSK) allows the integration of stylists' work (such as 2D painting) into 3D, as a basis for 3D virtual mockup. This product provides an intuitive toolbox for helping to convert 2D data into 3D data.

### **CATIA - Functional Molded Parts 1**

**5691-FM1,5693-FM1**

CATIA - Functional Molded Parts 1 (FM1) is a flexible and productive 3D modeling product dedicated to the design of molded and plastic parts. It provides direct access to unique and intuitive features. These features differ from other CAD systems in that each performs a complex modeling task in one operation that would usually require several geometrical features. Additionally, functional features can be managed without regard to the order in which they are created so that all the features can be applied and performed at any time in the design process.

**Prerequisite IBM Software:** CATIA - Part Design 1

### **CATIA - Functional Molded Parts 2**

**5691-FMP,5693-FMP**

CATIA - Functional Molded Parts 2 (FMP) is a product for designing cast, molded and forger parts and related tooling. Its history free functional design approach for defining the complete functional specification for both parts and their associated tooling reduces time to manufacturing process. It accelerates the time-to-market by intelligently understanding the geometrical and tooling definition from a designer's functional concept.

**Prerequisite IBM Software:** CATIA - Part Design 2

### **CATIA - Generative Assembly Structural Analysis 2**

**5691-GAS,5693-GAS**

CATIA Generative Assembly Structural Analysis 2 (GAS) extends the capability of the CATIA Generative Part Structural Analysis 2 (GPS) product to perform stress and vibration analysis on assemblies. Assemblies include surfaces, solids and wireframe entities so analysis closely matches real life conditions, providing more accurate answers on systems of parts. Assembly connections and technological information defined in design applications can be directly re-used within GAS because of the seamless integration between design and analysis applications. Each part is directly meshed and all connections are automatically generated to insure mechanism consistency as a result of a unique joining technology.

**Prerequisite IBM Software:** CATIA - Generative Part Structural Analysis 2

### **CATIA - Generative Drafting 1**

**5693-GD1**

CATIA - Generative Drafting 1 (GD1) allows you to automatically generate associative drafting from 3D mechanical designs and

assemblies. When combined with Interactive Drafting, the Generative Drafting product benefits both from integrated 2D interactive functionality and from a higher productive environment for drawings dress-up and annotation.

### **CATIA - Generative Drafting 2**

**5691-GDR,5693-GDR**

CATIA - Generative Drafting 2 (GDR) automatically generates associative drafting from 3D mechanical designs and assemblies produced with CATIA Version 5. When combined with CATIA - Interactive Drafting 1 (ID1), the product benefits both from integrated 2D interactive functionality and from a higher productive environment for drawings dress-up and annotation.

### **CATIA - Generative Dynamic Response Analysis 2**

**5691-GDY,5693-GDY**

CATIA Generative Dynamic Response Analysis 2 (GDY) allows designers to predict dynamic response analysis on parts, as well as assemblies, in conjunction with CATIA Generative Part Structural Analysis 2 (GPS) and CATIA Generative Assembly Structural Analysis 2 (GAS). As an integrated product, it is used with CATIA design products to provide fully associative analysis specifications. This permits rapid assessment of the impact of design changes, allowing high quality designs to be rapidly derived.

**Prerequisite IBM Software:** CATIA - Generative Part Structural Analysis 2

### **CATIA - Generative Part Structural Analysis 1**

**5693-GP1**

CATIA Generative Part Structural Analysis 1 (GP1) permits designers to perform fast and accurate part stress and displacement analysis. Its transparent and automated approach to part stress analysis is based solely on interactions with the physical definition of the part and its environment (as opposed to interacting with a Finite Element Model (FEM) model). It permits more design/analysis iterations of part behavior, earlier in the design cycle, to improve product performance. As a result of a common interface and unique integration with the CATIA geometric modeler.

### **CATIA - Generative Part Structural Analysis 2**

**5691-GPS,5693-GPS**

CATIA Generative Part Structural Analysis 2 (GPS) integrates advanced preprocessing, solving and post-processing capabilities. Designers can perform associative part stress and vibration analysis including contact analysis for the assessment of part mechanical behavior. Structural analysis can be performed on volume parts, surface parts and wireframe geometries. Designers get a transparent and automated approach to part stress analysis and modal frequencies analysis in a very intuitive environment. It supports local refinement of stress computations with adaptive techniques. This is the core application of the CATIA Analysis product line and the entry point to a scalable and integrated set of tools including advanced options for specialists.

### **CATIA - Generative Shape Design 1**

**5693-GS1**

CATIA - Generative Shape Design 1 (GS1) helps to design mechanical shapes based on a combination of wireframe and multiple surface features. It provides an extensive set of tools for creating and modifying mechanical surfaces used in the design of complex shapes or hybrid parts. It brings smart tools, like powercopy to manage the feature reuse.

### **CATIA - Generative Shape Design 2**

**5691-GSD,5693-GSD**

CATIA - Generative Shape Design 2 (GSD) helps design advanced shapes based on a combination of wireframe and extensive multiple surface features, with full specification capture. It provides a set of tools for creating and modifying mechanical surfaces used in the design of complex shapes or hybrid parts. Its feature-based approach offers a productive and intuitive design environment to capture and reuse design methodologies and specifications. Knowledgeware and laws functionalities are also included in CATIA Generative Shape Design.

### **CATIA - Generative Shape Optimizer 2**

**5691-GSO,5693-GSO**

CATIA - Generative Shape Optimizer 2 (GSO) extends the wireframe and multiple surface creation features of CATIA Generative Shape Design 2 with powerful global deformation technologies. Based on exclusives smart tools, CATIA Generative Shape Optimizer allows you to deform shapes quickly and decrease the time to complete the design process.

**Prerequisite IBM Software:** CATIA - Core & Cavity Design 2 (or), CATIA - Generative Shape Design 2

### **CATIA - Hanger Design 2**

**5691-HGR,5693-HGR**

CATIA Hanger Design 2 (HGR) provides customers with a complete set of tools to build and manage hangers needed to support 3D Systems, such as HVAC, piping, and electrical systems, including cable routing through hangers. This product is tightly integrated with the Electrical Cable Routing product that provides the capability to easily route cables through a predefined hanger arrangement. Additionally, it is integrated with the pathway reservation product that permits you to define the required space claim needed for interference checking.

### **CATIA - Healing Assistant 1**

**5691-HA1,5693-HA1**

CATIA - Healing Assistant 1 (HA1) provides reconciliation and fixing tools to heal mechanical and surface design parts to be used in downstream manufacturing applications. This product helps you to check validity of imported geometry with regard to V5 modeling criteria and improving the topology and the geometry of the analyzed objects.

### **CATIA - Human Activity Analysis 2**

**5691-HAA,5693-HAA**

CATIA - Human Activity Analysis 2 (HAA) is an add-on to Human Builder 2 that allows you to maximize human comfort, safety, and performance through a wide range of advanced ergonomics analysis tools that comprehensively evaluate all elements of a human's interactions with a product and specifically analyze how a mannequin will interact with objects in its virtual environment.

**Prerequisite IBM Software:** CATIA - Human Builder 2

**CATIA - Human Builder 2****5691-HBR,5693-HBR**

CATIA - Human Builder 2 (HBR) creates and manipulates accurate standard digital humans in the digital mock-up environment for early human-product interaction analysis. Tools provided include mannequin generation, gender and percentile specification, mannequin manipulation techniques, animation generation, and advanced vision simulation. A user-friendly interface ensures that first level human factors studies can be undertaken by non-human factors specialists.

**CATIA - Human Measurements Editor 2****5691-HME,5693-HME**

CATIA - Human Measurements Editor 2 (HME) is an add-on to Human Builder 2 allowing the user to create advanced, user-defined mannequins using a number of advanced anthropometry tools. The mannequins can then be used to assess the suitability of a product against its intended target audience. Human Measurements Editor 2 is effectively used in conjunction with Human Builder 2, Human Posture Analysis 2 and Human Activity Analysis 2.

**Prerequisite IBM Software:** CATIA - Human Builder 2

**CATIA - Human Posture Analysis 2****5691-HPA,5693-HPA**

CATIA - Human Posture Analysis 2 (HPA) is an add-on to Human Builder 2 that allows you to analyze all quantitative and qualitative aspects of mannequin posture. Whole body and localized postures can be examined, scored and iterated to determine operator comfort and performance when interacting with the product in accordance with published comfort databases. It allows users to create their own specific comfort and strength library for the needs of each individual application.

**Prerequisite IBM Software:** CATIA - Human Builder 2

**CATIA - HVAC Design 2****5691-HVA,5693-HVA**

The CATIA HVAC Design 2 (HVA) product creates and manages physical designs of HVAC systems using industry standard conventions, terminology, and practices. The tools are focused on creating an intelligent HVAC layout that captures all appropriate design information. It provides general layout tools for placement of parts and automatic placements of components as well as the creation and management of duct lines, enabling you to create and validate your designs more productively.

**Related IBM Software:**

CATIA - Equipment Arrangement 2      To define and place intelligent Equipments.

CATIA - HVAC Diagrams 2      To create HVAC diagrams to be used as input for your 3D HVAC design.

**CATIA - HVAC Diagrams 2****5691-HVD,5693-HVD**

CATIA HVAC Diagrams 2 (HVD) provides you with a complete set of tools to create and manage logical designs of HVAC systems using industry standard conventions, terminology, and practices. The tools are focused on creating an intelligent diagram that captures all appropriate design information.

**Prerequisite IBM Software:** CATIA - Systems Diagrams 2

**Related IBM Software:**

CATIA - HVAC Design 2      To define the 3D HVAC design.

**CATIA - IGES Interface 1****5691-IG1,5693-IG1**

CATIA - IGES Interface 1 (IG1) exchanges data in the Initial Graphic Exchange Specification (IGES) neutral format. It helps users working in a heterogeneous CAD / CAM environment. You can read / import an IGES for re-use of geometrical information to create datum feature (wireframe, surface and trim surface) in a part (3D) or a drawing (2D). You can also write / export an IGES file from a part (3D) or a drawing (2D). IGES Version 5.3 is supported.

**CATIA - Imagine & Shape 2****5691-IMA,5693-IMA**

CATIA - Imagine & Shape 2 (IMA) is dedicated to aesthetical shapes creation for industrial and conceptual design. It introduces new concepts, breaking the traditional approach of surfaces modeling. It could be used in any domains needing quick surface creation, including rapid virtual prototyping, ideas expression and simulations. It combines a powerful technology, based on subdivision surfaces, and a simple use, making easy for a non-surface specialist to design within a CAD system.

**CATIA - Instant Collaborative Design 1****5691-CD1,5693-CD1**

CATIA Instant Collaborative Design 1 (CD1) enables informal concurrent engineering for part or surface that can be used in any domain. Designers can share features in order to create concurrently parts or exchange know-how in a synchronous or asynchronous mode. This product is fully scalable from peer to peer for local communications to client/server mode which benefits from standard communication solutions integration.

**Prerequisite IBM Software:** CATIA - Part Design 1

**CATIA - Interactive Drafting 1****5691-ID1,5693-ID1**

CATIA - Interactive Drafting 1 (ID1) addresses 2D design and drawing production requirements. It also enriches Generative Drafting with both integrated 2D interactive functionality and with a productive environment for drawings dress-up and annotation.

**CATIA - Knowledge Advisor 2****5691-KWA,5693-KWA**

CATIA - Knowledge Advisor 2 (KWA) allows designers and design engineers to capture their knowledge and reuse it as best practices. You embed knowledge through formulas, rules, reactions and checks which can be leveraged at any time.

**CATIA - Knowledge Expert 1****5693-KE1**

CATIA - Knowledge Expert 1 (KE1) allows designers to import and use corporate knowledge stored in rule bases created using CATIA Knowledge Expert 2. Thus, design compliance is ensured with established standards. These rule bases automate knowledge processes such as best practices, application processes and design validation and corrections. The reports generated provide better identification of standards violations and help to implement necessary corrections.

**CATIA - Knowledge Expert 2****5691-KWE,5693-KWE**

CATIA - Knowledge Expert 2 (KWE) allows you to build and share corporate knowledge in rule bases. You can leverage knowledge across the company and ensure design compliance with corporate established standards. These rule bases capture and automate knowledge processes such as best practices, application processes, design validation and design corrections. CATIA Knowledge Expert 2 is the build time product; the runtime product is delivered through the CATIA Knowledge Expert 1 product.

**CATIA - Lathe Machining 1****5693-LG1**

CATIA - Lathe Machining 1 (LG1) is product which easily defines 2-axis turning and drilling operations, for both horizontal and vertical lathe machines. Quick tool path definition is ensured thanks to an intuitive user interface. Tools can easily be created and stored in tool catalogs. Entire manufacturing process is covered from tool path definition, computation and verification, to numerical control (NC) code and shop floor documentation generation. Associativity with CATIA design parts allows efficient change management.

**Prerequisite IBM Software:** CATIA - NC Manufacturing Review 1

**CATIA - Lathe Machining 2****5691-LMG,5693-LMG**

CATIA - Lathe Machining 2 (LMG) defines 2-axis turning and drilling operations, for both horizontal and vertical lathe machines. Quick tool path definition is ensured thanks to an intuitive user interface. Tools can be easily created and stored in tool catalogs. Entire manufacturing process is covered from tool path definition and computation, tool path verification, (including material removal simulation to numerical control code) and shop floor documentation generation. Associativity with CATIA design parts allows efficient change management.

**Prerequisite IBM Software:** CATIA - NC Manufacturing Review 2

**CATIA - Live FTA Review Product****5677-FTA**

CATIA Live Functional Tolerancing and Annotation (FTA) Review provides access to geometrical specifications, enabling users to directly leverage 3D information and remove the need for 2D drawings. This application displays the FTA annotations and allows users to query or filter the annotations according to their requirements. The CATIA Live Functional Tolerancing and Annotation Review application runs natively on top of any 3DLive configuration (CATIA 3DLive or ENOVIA 3DLive), The product enhances understanding and improves decision making by giving users direct insight to dimensioning and tolerancing annotations, geometrical elements and features, and the relationships between each element. It also delivers the underlying geometry semantics associated with each model.

**Prerequisite IBM Software:** CATIA - 3DLive Configuration (or), ENOVIA - 3DLive Configuration

**CATIA - Mold Tooling Design 2****5691-MTD,5693-MTD**

CATIA - Mold Tooling Design 2 (MTD) product manages mold tool definition. It can be cooperatively used with other current or future design, simulation and manufacturing applications of CATIA Version 5 to offer a highly productive. It allows rapid, cost effective creation of mold tooling for the plastic injection process thanks to the use of predefined components from standard catalogues with specific functionality to define mold components and instantiations.

**CATIA - Multi-Axis Surface Machining 2****5691-MMG,5693-MMG**

CATIA - Multi-Axis Surface Machining 2 (MMG) easily defines numerical control (NC) programs dedicated to machine multiple surface and curves of 3D parts in multi-axis mode. It offers 5-axis simultaneous surface machining operations and a variety of tool axis strategies including dynamic tool axis inclination for collision avoidance. As a complementary product to CATIA 3-Axis Surface Machining 2 (SMG), MMG extends 3-axis surface machining to multi-axis machining.

**Included Software:** CATIA - Lathe Machining 2 (or), CATIA - Prismatic Machining 2 (or), CATIA - 3 Axis Surface Machining 2

**CATIA - Multi-Pocket Machining 2****5691-MPG,5693-MPG**

CATIA - Multi-pocket Machining 2 (MPG) delivers a unique on the market process focused solution to machine multi-cavity parts such as mechanical prismatic parts or aerospace structural parts. This breakthrough solution delivers to NC programmers the possibility to machine multi-cavities parts with a mix of roughing and finishing toolpaths. This power machining operation enables to machine the part in a global and automatic way that drastically reduces the programming time.

**Prerequisite IBM Software:** CATIA - Advanced Machining 2 (or), CATIA - Prismatic Machining 2 (or), CATIA - 3 Axis Surface Machining 2

<b>CATIA - Multi-Slide Lathe Machining 2</b>	<b>5691-MLG,5693-MLG</b>
<p>CATIA - Multi-Slide Lathe Machining 2 (MLG) enables NC programmers to leverage the productivity of multi-slide lathe machining centers with multiple turrets and spindles. It delivers to the shop floor programmer tools for easily creating, simulating and synchronizing NC programs using multiple turrets. Its objective is to shorten the time needed to machine high quality parts.</p> <p><i>Prerequisite IBM Software:</i> CATIA - Lathe Machining 2</p>	
<b>CATIA - MULTICAx - AD Plug-In</b>	<b>5693-DAL</b>
<p>MULTICAx Plug-in 1 (DAL) provides the ability read AutoCAD formats (DXF, ACIS, Inventor) into CATIA V5, DELMIA V5 and ENOVIA V5 DMU.</p>	
<b>CATIA - MULTICAx - ID Plug-In</b>	<b>5691-IDL</b>
<p>MULTICAx ID Plug-in 1 (IDL) provides the ability read I-DEAS data into CATIA V5, DELMIA V5 and ENOVIA V5 DMU.</p>	
<b>CATIA - MULTICAx - IGES Plug-In</b>	<b>5691-DGL</b>
<p>MULTICAx IGES Plug-in (DGL) provides IGES import functions in ENOVIA Portal, CATIA V5.</p>	
<b>CATIA - MULTICAx - PD Plug-in</b>	<b>5691-PDL</b>
<p>MULTICAx PD Plug-in 1 (PDL) provides interoperability functions between ENOVIA Portal, CATIA V5 and Pro/Engineer.</p>	
<b>CATIA - MULTICAx - SE Plug-In</b>	<b>5691-DEL</b>
<p>MULTICAx SE Plug-in 1 (DEL) provides the ability read SolidEdge and Parasolid based data into CATIA V5, DELMIA V5 and ENOVIA V5 DMU.</p>	
<b>CATIA - MULTICAx - SOLIDWORKS Plug-In</b>	<b>5691-DSL</b>
<p>MULTICAx Solidworks Plug-in 1 (DSL) provides the ability read Solidworks data into CATIA V5, DELMIA V5 and ENOVIA V5 DMU.</p>	
<b>CATIA - MULTICAx - STEP Plug-In</b>	<b>5691-DTL</b>
<p>ENOVIA MULTICAx-STEP Plug-in (DTL) provides the ability to read STEP structure and geometry data into CATIA V5, DELMIA V5 and ENOVIA V5 DMU.</p>	
<b>CATIA - MULTICAx - UD Plug-In</b>	<b>5691-UDL</b>
<p>MULTICAx UD Plug-in 1 (UDL) provides the ability read Unigraphics data into CATIA V5, DELMIA V5 and ENOVIA V5 DMU.</p>	
<b>CATIA - NC Machine Tool Builder 2</b>	<b>5691-MBG,5693-MBG</b>
<p>CATIA - NC Machine Tool Builder 2 (MBG) easily models resources with kinematics, such as NC machines, tools, tool changers, pallet changers, and other peripheral devices for use and reuse in the entire machining process. Machine Tool Builder provides a comprehensive NC machine definition including geometry, kinematics, controller and technological information. The unique resources created may be saved to the DELMIA Manufacturing hub and used by process planners, NC programmers and operators to create machining process plans, validate machining setups, detail machining operations, validate and optimize tool paths, perform post processing, and emulate controllers.</p> <p><i>Prerequisite IBM Software:</i> CATIA - NC Manufacturing Review 2</p>	
<b>CATIA - NC Machine Tool Simulation 2</b>	<b>5691-MSG,5693-MSG</b>
<p>CATIA - NC Machine Tool Simulation 2 (MSG) easily validates the machining setup for selected NC machines and tool paths, during machining operation definition. It enables the NC programmer to assign a virtual machine to a part operation, simulate selected tool paths with the machine, determine interferences, modify tool paths or machining operations, generate ISO code, and simulate machine motions and material removal based on ISO code.</p> <p><i>Prerequisite IBM Software:</i> CATIA - NC Manufacturing Review 2</p>	
<b>CATIA - NC Manufacturing Review 1</b>	<b>5693-NG1</b>
<p>CATIA - NC Manufacturing Review 1 (NG1) offers basic NC capabilities such as tool path verification, tool path edition and creation of shop floor documentation. It provides the infrastructure for all V5 Platform 1 numerical control (NC) programming products and allows numerical control (NC) programmers or machine operators to browse and review V5 part operations. Furthermore, different manufacturing data such as APT files, CL files and ISO code can be imported and reviewed.</p>	
<b>CATIA - NC Manufacturing Review 2</b>	<b>5691-NCG,5693-NCG</b>
<p>CATIA - NC Manufacturing Review 2 (NCG) offers basic numerical control (NC) capabilities such as tool path verification, material removal simulation, remaining material analysis, tool path edition and creation of shop floor documentation. It provides the infrastructure for all V5 NC programming products and allows numerical control (NC) programmers or machine operators to review V5 part operations. Furthermore, different manufacturing data such as APT files, CL files and ISO code can be imported and reviewed.</p>	
<b>CATIA - NC Manufacturing Verification 2</b>	<b>5691-NVG,5693-NVG</b>
<p>CATIA - NC Manufacturing Verification 2 (NVG) offers advanced tool path verification capabilities for multi-axis positioning and for</p>	

multi-axis machining. It is a complementary product to CATIA NC Manufacturing Review 2 (NCG). The accuracy of machined parts can be analyzed either by detection and display gauges and remaining material, by pick point analysis or by measuring. Collisions between the tool or tool holder and part or fixtures are detected and graphically visualized. The results of a material removal simulation can be stored in a reporting file.

**Prerequisite IBM Software:** CATIA - NC Manufacturing Review 2

### **CATIA - Object Manager 1**

CATIA Object Manager 1 (CO1) is the Platform 1 base product. It offers a total single system image across native Microsoft Windows and UNIX environments, supporting all aspects of the Digital Enterprise, from Digital Mock-up, Digital Manufacturing, to Digital Operation and Digital Plant definition.

### **CATIA - Object Manager 1 to 2 Extension**

**5691-C12,5693-C12**

CATIA COM 1 to 2 Extension (C12) gives access to the portfolio of CATIA Platform 2 applications for CATIA Platform 1 users in a mixed P1/P2 environment. This product, when installed on top of any P1 configuration, acts as an upgrade of CATIA infrastructure from P1 platform to P2 platform and allows you to install P2 sharable or add-ons products in addition to it.

### **CATIA - Object Manager 2**

CATIA Object Manager (COM) is the Platform 2 base product. It offers a total single system image across native Microsoft Windows and UNIX environments, supporting all aspects of the Digital Enterprise, from Digital Mock-up, Digital Manufacturing, to Digital Operation and Digital Plant definition.

### **CATIA - Object Manager 3**

CATIA Object Manager 3 (CO3) is the Platform 3 base product. It offers a total single system image across native Microsoft Windows and UNIX environments, supporting all aspects of the Digital Enterprise, from Digital Mock-up, Digital Manufacturing, to Digital Operation and Digital Plant definition.

### **CATIA - Part Design 1**

**5693-PD1**

CATIA - Part Design 1 (PD1) provides the entry set of integrated multi-discipline tools for part design. Using a feature approach combined with Boolean tools, it can integrate multiple product views and constraints. Designers choose between single part sketching or working in the assembly context, and benefit from the controlled associativity which promotes a collaborative design.

### **CATIA - Part Design 2**

**5691-PDG,5693-PDG**

CATIA - Part Design 2 (PDG) provides an extended set of integrated multi-discipline tools within CATIA Part Design. It includes a template approach as well as enriching the knowledge templates repository; one can use the old project as best practices for the coming ones. Due to V5 integration, those templates inputs shared a common multi-disciplinary approach such as tooling specifications, analysis, manufacturing constraints and usability.

### **CATIA - Part Design Feature Recognition 1**

**5691-FR1,5693-FR1**

CATIA - Part Design Feature Recognition 1 (FR1) is intended to recognize Part Design feature from an Isolated B-Rep. This product is used to retrieve a comprehensive CATIA data structure (Part Structure) from an Isolated B-Rep Part. The user imports a part and can recover elementary Part Design features.

**Prerequisite IBM Software:** CATIA - Part Design 1

### **CATIA - Photo Studio 2**

**5691-PHS,5693-PHS**

CATIA - Photo Studio 2 (PHS) generates high quality photo-realistic images and movies of a digital mock-up, using a powerful ray-tracing engine. This engine drastically enhances the realism of the resulting images by computing soft shadows as well as accurate reflections and refractions of light. PHS manages reusable scene settings and delivers animation capabilities.

### **CATIA - Photo Studio Optimizer 2**

**5691-PSO,5693-PSO**

CATIA - Photo Studio Optimizer 2 (PSO) is an essential complement to CATIA - Photo Studio 2 (PHS) to create images and movies that will match reality. PSO extends the PHS rendering capabilities with advanced technologies as global illumination and caustics.

**Prerequisite IBM Software:** CATIA - Photo Studio 2

### **CATIA - Piping Design 2**

**5691-PIP,5693-PIP**

CATIA Piping Design 2 (PIP) creates and manages physical designs of piping systems using industry standard conventions, terminology, and practices. The tools are focused on creating an intelligent piping layout that captures all appropriate design information. This intelligent piping design capability enables you to create and validate your designs more productively. In addition, the captured intelligence can be reused for downstream design processes, providing further benefits to your overall business processes.

**Related IBM Software:**

CATIA - Equipment Arrangement 2 To define and place intelligent Equipments.

CATIA - Piping & Instrumentation Diagrams 2 To create P&ID's to be used as input for your 3D Piping design.

**CATIA - Piping & Instrumentation Diagrams 2****5691-PID,5693-PID**

CATIA Piping & Instrumentation Diagrams 2 (PID) provides you with a complete set of tools to create and manage logical diagrams of piping systems using industry standard conventions, terminology, and practices. The tools are focused on creating intelligent diagrams that capture the design standard and connectivity of pipe routes. The captured intelligence in the diagram can be reused for downstream during the design processes thus providing further benefits by reusing data, automating part selection from catalogues and providing a functional check that the 3D design complies with the 2D logical specification.

**Prerequisite IBM Software:** CATIA - Systems Diagrams 2

**Related IBM Software:**

CATIA - Piping Design 2 To define the 3D piping design.

**CATIA - Plant Layout 1****5691-PLO,5693-PLO**

CATIA Plant Layout 1 (PLO) enables organizations to optimize their manufacturing plant layout. It deals specifically with the "spatial organization" and components of the plant, allowing quick easy layout and downstream evolution of the layout design. It contains the tools necessary to optimize production facility layout, leading to optimized factory production and output.

**CATIA - PPR PDM Gateway 1****5691-PX1,5693-PX1**

CATIA - PPR PDM GATEWAY 1 (PX1) provides tools to build a Gateway Interface between CATIA V5 and any PDM for import and export of data in a heterogeneous environment, by keeping "consistent set of documents". PX1 is a build-time/run-time engine with a series of API's that a customer or 3rd party can use to build their own interface to other PDM systems.

**CATIA - Prismatic Machining 1****5693-PG1**

CATIA - Prismatic Machining 1 (PG1) easily defines drilling and 2.5-axis milling operations. Quick tool path definition is ensured thanks to an intuitive user interface based on graphic dialog boxes. Tools can be easily created and stored in tool catalogs. Entire manufacturing process is covered from tool path definition, (computation and verification to numerical control (NC) code) and shop floor documentation generation. Associativity with CATIA design parts allows efficient change management.

**Prerequisite IBM Software:** CATIA - NC Manufacturing Review 1

**CATIA - Prismatic Machining 2****5691-PMG,5693-PMG**

CATIA - Prismatic Machining 2 (PMG) defines drilling and 2.5-axis milling operations including support of High Speed Cutting technology. Quick tool path definition is ensured thanks to an intuitive user interface. Tools can be easily created and stored in tool catalogs. Entire manufacturing process is covered from tool path definition and computation, tool path verification (including material removal simulation to numerical control (NC) code) and shop floor documentation generation. Associativity with CATIA design parts allows efficient change management.

**Prerequisite IBM Software:** CATIA - NC Manufacturing Review 2

**CATIA - Prismatic Machining Preparation Assistant 2****5691-MPA,5693-MPA**

CATIA - Prismatic Machining Preparation Assistant 2 (MPA) delivers functions to prepare a design part for prismatic machining through geometrical machining features recognition. It helps the numerical control (NC) programmer to make the link between design and manufacturing. It provides a set of functions that generate all prismatic geometrical machining features of the design part to be machined. Therefore it builds a real manufacturing view of the design Part with all the drilling and milling features to be machined.

**Prerequisite IBM Software:** CATIA - Advanced Machining 2 (or), CATIA - Prismatic Machining 2

**CATIA - Product Data Filtering 1****5691-DF1,5693-DF1**

CATIA - Product Data Filtering (DF1) helps companies manage and protect their intellectual property (IP) by providing filtering mechanisms integrated into their exchange processes. It provides filters to control part and product structure data exchange interactively and in batch.

**CATIA - Product Engineering Optimizer 2****5691-PEO,5693-PEO**

CATIA - Product Engineering Optimizer 2 (PEO) allows you to explore additional design alternatives and accurately optimize designs utilizing two complementary tools: Design Of Experiments (DOE) and Design by Goal.

**CATIA - Product Function Definition****5691-PFD,5693-PFD**

CATIA - Product Function Definition 2 (PFD) describes the functional systems of a product to be designed and visualizes them in a schematic-like viewer. This application also manages variants for the functional systems. In addition, it enables you to create links between the functional systems and CATIA product items, thus allowing full functional and physical definition in CATIA V5.

**CATIA - Product Function Optimizer****5691-PFO,5693-PFO**

CATIA - Product Function Optimizer 2 (PFO) allows you, at the conceptual stage of development, to detect engineering problems by creating functional systems for a product and provides helpful methods and knowledge databases for solving problems. To accomplish this, CATIA Product Function Optimizer 2 utilizes Invention Machine Corporation (IMC) TechOptimizer kernel knowledge to add unique expertise in functional system modeling to the CATIA portfolio.



**CATIA - Product Knowledge Template 1****5691-KT1,5693-KT1**

CATIA - Product Knowledge Template 1 (KT1) allows the instancing of feature, part and assembly templates, created using CATIA Product Knowledge Templates 2, and their modification through the use of appropriate input values and geometry references. The Product Knowledge Template solution consists of a build time product, CATIA Product Knowledge Template 2, and a runtime solution, CATIA Product Knowledge Template 1.

**CATIA - Product Knowledge Template Definition 2****5691-PKT,5693-PKT**

CATIA - Product Knowledge Template 2 (PKT) allows you to easily and interactively capture engineering know-how and methodology for reuse. It helps organizations to share best practices and avoid duplication of effort due to the inability to reuse existing designs because they are too complex or difficult to understand. This product allows the interactive creation of feature, part and assembly templates, which encapsulate geometry specifications, associated parameters and relations for associative reuse. The Product Knowledge Template solution is divided into a build time product, CATIA Product Knowledge Template 2, and a runtime solution, CATIA Product Knowledge Template 1.

**CATIA - Quick Surface Reconstruction 2****5691-QSR,5693-QSR**

CATIA - Quick Surface Reconstruction 2 (QSR) easily and quickly recovers surfaces from digitized data that has been cleaned up and tessellated using the CATIA Digitized Shape Editor 2 product. Quick Surface Reconstruction 2 offers several approaches to recover surfaces depending of the type of shape: free form fitting, mechanical shape Identification (plane, cylinder, sphere, cone) and primary surface extension.

**CATIA - Raceway & Conduit Design 2****5691-RCD,5693-RCD**

CATIA Raceway & Conduit Design 2 (RCD) provides layout tools for intelligent placement of parts and automatic placement of components. It also allows you to create and manage specification/function-driven physical designs of raceway and conduit systems, using industry standard conventions, terminology, and practices. The product includes a raceway and conduit design parametric parts catalog.

**CATIA - Real Time Rendering 1****5693-RT1**

CATIA - Real Time Rendering 1 (RT1) enables designers to leverage technological material specifications to produce realistic renderings of their model. Texture can be created from scratch, modified from imported digital images, or selected from the included library. Associativity is maintained between the material library and the material applied to the parts.

**CATIA - Real Time Rendering 2****5691-RTR,5693-RTR**

CATIA - Real Time Rendering 2 (RTR) enables designers to create realistic and dynamic renderings and animations in real time by extensively using all the hardware features available. You can dynamically create and manipulate materials, lights and environments and immediately view the result of any modification.

**CATIA - Realistic Shape Optimizer 2****5691-RSO,5693-RSO**

CATIA - Realistic Shape Optimizer 2 (RSO) completes the design-simulation loop enabling you to easily update nominal CAD shapes into realistic shapes from operation's conditions, simulations or measurements. This product can enable geometric morphing of a nominal shape from any displacement file resulting from finite elements analysis, discrete measurements or CAA V5 partners' simulations applications. The realistic shapes are then reusable as any other V5 features. Once created, you can exploit those shapes for many purposes such as check for product interferences under loads conditions, or optimize product's definition based on a comparison between the as-built measurements and initial CAD definition.

**Prerequisite IBM Software:** CATIA - Core & Cavity Design 2 (or CATIA - Generative Shape Design 2)

**CATIA - Shape Sculptor 2****5691-DSS,5693-DSS**

CATIA - Shape Sculptor 2 (DSS) provides modeling tools to quickly create, edit, or enhance a shape from a concept or an existing physical model. This new approach to create aesthetical and conceptual forms allows non-CAD specialists to manipulate and test 3D virtual models. The objective is to enhance the collaboration between design and engineering offices through an easy to use sculpting tool. It complements and reinforces the existing CATIA surfacing tools, such as CATIA Freestyle Shaper 2 (FSS) and CATIA Freestyle Sketch Tracer 2 (FSK) particularly in situations where surfacing becomes very complex.

**CATIA - Sheetmetal Design 1****5693-SM1**

CATIA - Sheetmetal Design 1 (SM1) is the Platform 1 product dedicated to the design of sheet metal parts. Its feature-based approach offers a highly productive and intuitive design environment. It allows concurrent engineering between the folded or unfolded representation of the part.

**CATIA - Sheetmetal Design 2****5691-SMD,5693-SMD**

CATIA - Sheetmetal Design 2 (SMD) is a product dedicated to the design of sheet metal parts. Its feature-based approach offers a highly productive and intuitive design environment. It allows concurrent engineering between the folded or unfolded representation of the part.

**CATIA - Sheetmetal Production 1****5691-SH1,5693-SH1**

CATIA - Sheetmetal Production 1 (SH1) is a Platform 1 product which covers the manufacturing preparation for sheet metal parts. This product is only needed for "old-sheetmetal".

**CATIA - Ship Structure Detail Design 2****5691-SDD,5693-SDD**

CATIA Ship Structure Detail Design 2 (SDD) is used to complete design of heavy structures with realistic plating and stiffening elements. It provides industry specific features to create hull structure detailed parts. The integration with CATIA Structure Functional Design 2 (SFD) allows users to retrieve design block information, that was previously defined and assessed, to perform the detailed design of the structure. The application provides productive tools and environment in order to manage structural systems and connections and to create physical plates and shapes.

**Related IBM Software:**

CATIA - Structure Functional Design 2 To define the Ship Structure Functional design.

**CATIA - STEP Core Interface 1****5691-ST1,5693-ST1**

CATIA - STEP Core Interface 1 (ST1) helps you exchange data through a neutral format in a heterogeneous CAD/CAM environment. You can interactively read and write data in STEP AP214 and STEP AP203 data formats allowing reliable bi-directional data exchange between dissimilar systems.

**CATIA - STL Rapid Prototyping 1****5693-TL1**

CATIA - STL Rapid Prototyping 1 (TL1) creates STL files in a fast and accurate way by tessellation of CAD data. It allows the import of existing STL files, the display of meshes and the analysis of their quality. The product offers basic tools to improve the quality of meshes by removing and reorganizing triangles. In addition, it allows the creation of thin offsets to obtain a watertight solid. The meshes can be exported as a standard binary STL file for rapid prototyping machines.

**CATIA - STL Rapid Prototyping 2****5691-STL,5693-STL**

CATIA - STL Rapid Prototyping 2 (STL) creates STL files in a fast and accurate way by tessellation of CAD data. It allows the import of existing STL files, the display of meshes and the analysis of their quality. The product offers advanced tools to improve the quality of meshes by removing of triangles, by hole filling or by local or global re-meshing. In addition, it allows the creation of thin offsets to obtain a watertight solid and the split and merge of meshes. The meshes can be exported as standard binary STL file for a rapid prototyping machines.

**CATIA - Strim/Styler to CATIA Interface 2****5691-STC,5693-STC**

CATIA - Strim/Styler to CATIA Interface 2 (STC) allows you to process geometry from Strim and Styler applications in CATIA V5. It provides a unique, direct interface from Strim and Styler to CATIA, which operates on Strim and Styler native format files in the CATIA Environment and allows users to convert and store them in CATIA V5 format.

**CATIA - Structure Design 1****5691-SR1,5693-SR1**

CATIA - Structure Design 1 (SR1) simply and quickly creates linear, curved structures, and plates, using standard or user-defined sections. Taking advantage of an optimized user interface, you can easily create and modify structures thanks to fully associative design in context capability.

**CATIA - Structure Functional Design 2****5691-SFD,5693-SFD**

CATIA Structure Functional Design 2 (SFD) a set of tools for structure designers who must complete their preliminary-draft before getting into the detailed design operations. It enriches CATIA Structure Preliminary Layout 2 (SPL) supporting the initial structural definition of the interior of 3D volumes. For shipbuilders, these tools are used to develop the ships scantling, For large equipment designers, these tools are used to define the initial materials to build vessels, tanks or other interior elements.

**Related IBM Software:**

CATIA - Ship Structure Detail Design 2 To details the ship structures.

CATIA - Structure Preliminary Layout 2 To define the ship preliminary layout.

**CATIA - Structure Preliminary Layout 2****5691-SPL,5693-SPL**

CATIA Structures Preliminary Layout 2 (SPL) is a structural and space definition tool particularly useful to shipbuilders and designers of large equipment. You benefit most from it when used in the early conceptual and preliminary design phases of projects when many details are still unknown but decisions about space layout and general optimization must be made. You can easily organize and modify your conceptual structures and measure the ability of designs to meet project requirements.

**CATIA - Systems Diagrams 2****5691-SDI,5693-SDI**

CATIA Systems Diagrams 2 (SDI) provides a common platform for CATIA diagram applications. This common platform encapsulates diagram functionality that is common to the various diagram applications. This common functionality is based on the concept of an intelligent diagram where appropriate design information is captured.

**Prerequisite IBM Software:** CATIA - Interactive Drafting 1

**Related IBM Software:**

CATIA - Electrical Connectivity Diagrams 2 For defining electrical connectivity diagrams.

CATIA - HVAC Diagrams 2 For defining HVAC diagrams.

CATIA - Piping & Instrumentation Diagrams 2	For defining P&ID's.
CATIA - Tubing Diagrams 2	For defining tubing diagrams.
CATIA - Waveguide Diagrams 2	For defining Waveguide diagrams.

### **CATIA - Systems Routing 1** **5691-SRT,5693-SRT**

CATIA Systems Routing 1 (SRT) is a conceptual design application that enables system planners to reserve the space needed for functional and detail layouts of HVAC, raceways, piping and tubing. One can reserve the proper volumes and then let other groups and suppliers further define and route their systems within the limits. Interference is avoided and different disciplines can be free to optimize their designs knowing that their spatial needs and manufacturing and erection sequences have been taken into account.

### **CATIA - Systems Space Reservation 2** **5691-SSR,5693-SSR**

CATIA Systems Space Reservation 2 (SSR) provides an efficient and cost-effective way to create space for tubing and electrical systems. It enables you to easily define a space reservation network, including components and pathways and to segregate space networks. The entire process is accomplished through a simple, highly intuitive interface, combining traditional 2D layout paradigms with full 3D capabilities for building a 3D digital representation of the design.

### **CATIA - Tolerance Analysis of Deformable Assembly 3** **5693-TAA**

CATIA Tolerance Analysis of Deformable Assembly 3 (TAA) performs tolerance analysis of sheet metal assemblies, taking into account the product, process and resources required to successfully complete the project. Use it in the design phase to help specify, and/or validate the assembly process, including even the welding and riveting order. It takes into consideration the tolerance-specified, geometry, and property of the sheet metal part such as thickness and material type. Use it with its advanced sensitivity analysis in the manufacturing phase and analyzing actual part variations to determine appropriate corrective actions.

### **CATIA - Tooling Design 1** **5691-TG1,5693-TG1**

CATIA - Tooling Design 1 (TG1) is dedicated to generic and user Tooling Component management. It provides small mold makers with a toolset to support the end-to-end process. This new product covers all productivity features such as positioning and multi-instance management and also delivers all needed features for process integration up to drafting and manufacturing (drilling, splitting, propagation of user intent). Moreover, the product includes rich content through catalogs and samples.

### **CATIA - Tubing Design 2** **5691-TUB,5693-TUB**

CATIA Tubing Design 2 (TUB) creates and manages physical designs of tubing lines/systems using industry standard conventions, terminology, practices and company standards. Provided industry-oriented functionality gives you the ability to design the tubing systems in a realistic way. You can annotate and validate the model, query data and generate appropriate report information with an intuitive and productive user interface.

**Related IBM Software:**

CATIA - Equipment Arrangement 2	To define and place intelligent Equipments.
CATIA - Tubing Diagrams 2	To create Tubing diagrams to be used as input for your 3D Tubing design.

### **CATIA - Tubing Diagrams 2** **5691-TUD,5693-TUD**

CATIA Tubing Diagrams 2 (TUD) creates and manages logical designs of tubing systems using industry standard conventions, terminology and practices. It supports the definition of diagrams by providing general layout tools for equipment placement and location and creates and manages tubing lines, annotates diagrams, queries design information, and generates report information. When integrated with the CATIA Tubing Design 2 (TUB), you can use the tubing Diagram design directly to drive the creation of the 3D detailed design.

**Prerequisite IBM Software:** CATIA - Systems Diagrams 2

**Related IBM Software:**

CATIA - Tubing Design 2	To define the 3D tubing design.
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### **CATIA - V4 Integration 1**

CATIA - Version 4 Integration 1 (V4I) offers numerous features, which allows interoperability for V4 data inside V5 as well as 2D migration capabilities from V4 to V5. This product is included in all P1 configurations.

### **CATIA - V4 Integration 2**

CATIA - Version 4 Integration 2 (V4I) offers numerous features, which allows interoperability for V4 data inside V5 as well as full migration capabilities from V4 to V5 and vice versa. This product is included in all P2 and P3 configurations.

### **CATIA - Waveguide Design 2** **5691-WAV,5693-WAV**

CATIA Waveguide Design 2 (WAV) creates and manages the physical designs of waveguide systems. It provides design tools that can detail both the mechanical guide components as well as the electrical and radio frequency cables. It provides general layout tools for intelligent placement of parts and automatic placement of waveguide components as well as the creation and management of waveguide lines.

**Related IBM Software:**

CATIA - Equipment Arrangement 2 To define and place intelligent Equipments.

CATIA - Waveguide Diagrams 2 To create Waveguide diagrams to be used as input for your 3D Waveguide design.

**CATIA - Waveguide Diagrams 2**

**5691-WGD,5693-WGD**

CATIA Waveguide Diagrams 2 (WGD) creates and manages logical schematics of waveguide systems. It is an intelligent diagram application enabling you to create and validate waveguide logical designs. When used with the CATIA Waveguide Design 2 (WAV) application, you can automatically input specification data captured in the diagram and use it to automate equipment placement, the selection of 3D components from catalogs, check waveguide schematic lines for completion, query parts and check that all components are functionally and physically correct.

**Prerequisite IBM Software:** CATIA - Systems Diagrams 2

**Related IBM Software:**

CATIA - Waveguide Design 2 To define the 3D waveguide design.

**CATIA - Weld Design 1**

**5691-WD1,5693-WD1**

CATIA - Weld Design 1 (WD1) delivers weld definitions to the user to create welds, part preparation and relevant annotations. Integrated in the suite of the CATIA V5 solutions, this cross functional application takes advantages of the domain applications such as connection between analysis, manufacturing and process documentation to deliver rapid process definition that reference company knowledge and leverages the welding processes to the 3D digital mock-up environment for the machinery and tooling industries.

**Prerequisite IBM Software:** CATIA - Assembly Design 1

**CATIA - Wireframe & Surface 1**

**5691-WS1,5693-WS1**

CATIA - Wireframe and Surface 1 (WS1) is used to create wireframe construction elements during the preliminary design phase. It can also enrich existing 3D mechanical part design with wireframe and basic surface features. Its feature-based approach contributes to a productive and intuitive design environment where design methodologies and specifications can be captured and reused.

**CATIA Team PDM Configuration**

**5691-TDM**

CATIA Team PDM Configuration (TDM) is a rapidly implemented, scalable, customizable, Windows-based and seamlessly integrated PDM solution for CATIA V5.

**Included Software:** SMARTEAM - Foundation, SMARTEAM - Editor, SMARTEAM - CATIA Integration

**ENOVIA - 3d com CAD Viewing Configuration**

**5691-C3V**

ENOVIA 3d com CAD Viewing targets casual users needing access to CATIA 2D and 3D data stored on a file system or a server.

**ENOVIA - 3d com Navigator Configuration**

**5691-N3G**

ENOVIA 3d com Navigator provides capabilities to search, access and navigate Product, Process and Resource Data, and to visualize and publish data from multiple ENOVIA PDM systems, CATIA and DELMIA 2D and 3D data.

**Prerequisite IBM Software:** IBM WebSphere Application Server (if deployed in modular form vs. as a Java client)

**Related IBM Software:**

IBM Lotus Sametime Standard Enables real-time instant 3D collaboration. Can only be used when N3G is deployed in modular form (i.e., it cannot be used when N3G is deployed as a Java client).

**ENOVIA - 3d com Space Analysis**

**5691-S3P**

ENOVIA 3d com Space Analysis provides advanced space analysis capability supporting design review. It runs on top of the ENOVIA 3d com Web Viewer product. Capabilities are derived from different CATIA design synthesis functions.

**Prerequisite IBM Software:** ENOVIA - 3d com CAD Viewing Configuration, ENOVIA - 3d com Navigator Configuration

**ENOVIA - 3d com VPM Web Client Configuration**

**5691-V3C**

ENOVIA 3D com VPM Web Client allows CATIA Version 5 Microsoft Windows users, using ENOVIAVPM as their corporate VPDM system, to create and access CATIA documents stored in ENOVIAVPM.

**ENOVIA - 3d com Web Navigator Configuration**

**5691-W3G**

ENOVIA - 3d com Web Navigator targets users who need to access and visualize product development data (including CATIA and DELMIA 2D & 3D data) that are stored either in a file system or in ENOVIAVPM or ENOVIA V5 VPM database.

**Prerequisite IBM Software:** IBM WebSphere Application Server

**Related IBM Software:**

IBM Lotus Sametime Standard Enables real-time instant 3D collaboration.

**ENOVIA - 3DLive Configuration****5677-LIV**

ENOVIA - 3DLive enables any enterprise user to search and navigate on ENOVIAVPM V1.6, ENOVIA V5 VPM, ENOVIA MatrixOne, ENOVIA SmarTeam or locally stored PLM information for on-demand, real-time 3D collaboration that brings PLM Intellectual Property to life. This configuration turns PLM data and associated intellectual property into business intelligence by leveraging a unique user experience that combines simple and intuitive navigation with rapid and efficient search capabilities.

Services based on the Dassault Systèmes V5 services-oriented architecture allows users to access multiple PLM information sources (including ENOVIAVPM V1.6, ENOVIA V5 VPM, ENOVIA MatrixOne, ENOVIA SmarTeam, CATIA and 3D XML files) while leveraging advanced collaboration scenarios between all stakeholders. This configuration also enables 3DLive system administrators to create and define the settings of 3DLive for end users through the 3DVIA - 3DLive Product (DSN) extensions included with this configuration.

**Prerequisite IBM Software:** IBM WebSphere Application Server (optional if SSO is being implemented), IBM Lotus Sametime Standard, IBM DB2 Enterprise Server Edition, IBM Tivoli Directory Server

**ENOVIA - Action Editor****5693-AED**

ENOVIA Action Editor provides an informal change mechanism (Actions) to track changes to part and product structures in early product development phases. An 'Action' can be defined by a supervisor and assigned to a designer who will perform the change, and for added flexibility, changes can be automatically recorded as they are made, or even assigned to the 'Actions' after the changes have been completed. This is especially helpful in early design stages where a lot of modifications must be performed rapidly to a product structure.

**Prerequisite IBM Software:** ENOVIA - Security Administrator Configuration, ENOVIA - Casual User Configuration

**ENOVIA - Casual User Configuration****5691-CUR**

ENOVIA Casual User meets the needs of users whose job requires them to retrieve certain objects from the ENOVIA V5 VPM for viewing purposes only. These users might occasionally perform light viewing of the digital mockup.

**ENOVIA - DMU Digital Plant & Ship Review 1****5693-PR1**

ENOVIA DMU Digital Plant and Ship Review 1 (PR1) is dedicated to technological review of plant and ship designs in the context of the immersive and collaborative design review environment of the full digital product definition. It facilitates the full integration of Digital Plant/Ship centric processes within the global engineering environment of the customer.

**ENOVIA - DMU Digital Product Synthesis 2 Configuration****5691-DPS**

ENOVIA DMU Digital Product Synthesis 2 (DPS) provides in one license all of the visualization and analysis tools necessary for advanced product synthesis.

**Included Software:** ENOVIA - Real Time Rendering 1, ENOVIA - DMU Space Analysis 2, ENOVIA - DMU Kinematics Simulator 2, ENOVIA - DMU Fitting Simulator 2

**ENOVIA - DMU Dimensioning & Tolerancing Review 1****5693-DT1**

DMU Dimensioning and Tolerancing Review 1 is dedicated to visualization, querying and filtering of mechanical dimensioning and tolerancing as well as 2D Layout information in the context of the immersive and collaborative design review environment of the full digital mockup (DMU).

**ENOVIA - DMU Engineering Analysis Review 2****5691-ANR,5693-ANR**

DMU Engineering Analysis Review 2 provides the capability for access and review of the analysis results generated through CATIA Generative Part Structural Analysis 2, CATIA Generative Assembly Structural Analysis 2, CATIA Elfini Structural Analysis 2, CATIA FEM Surface 2, or results created by third party CAA applications.

**ENOVIA - DMU Fastening Review 2****5691-FAR,5693-FAR**

DMU Fastening Review 2 is dedicated to the validation and the documentation of fasteners in the frame of the collaborative automotive Body in White fasteners process. This product suits both company teams--such as DMU, Product Synthesis and Structural Analysis--and product design suppliers, such as part designers and prototype makers.

**ENOVIA - DMU Fitting Simulator 2****5691-FIT,5693-FIT**

DMU Fitting Simulator 2 is dedicated to the definition, simulation and analysis of assembly/disassembly operations to validate a product design regarding the feasibility of its maintenance operations (assembly and disassembly operations). It generates useful information on space reservation for the dismantling operations, to be taken into account in future design modifications. The product also helps identify a trajectory allowing the dismantling of an assembly.

**ENOVIA - DMU Human Simulation 2 Configuration****5691-DH2**

ENOVIA DMU Human Simulation 2 provides in one license all of the tools necessary for human-product interaction analysis and simulation.

**Included Software:** ENOVIA - Real Time Rendering 1, ENOVIA - DMU Space Analysis 2, ENOVIA - Human Builder 2, ENOVIA - Human Activity Analysis 2, ENOVIA - Human Measurements Editor 2, ENOVIA - Human Posture Analysis 2

**ENOVIA - DMU Immersive Review 3 Configuration****5691-DM3**

ENOVIA DMU Immersive Review (DM3) provides in one license all of the tools necessary for advanced immersive (e.g. virtual reality) 3D product evaluation.

**Included Software:** ENOVIA - Real Time Rendering 2, ENOVIA - DMU Space Analysis 2

**ENOVIA - DMU Kinematics Simulator 2****5691-KIN,5693-KIN**

DMU Kinematics Simulator 2 defines mechanisms for digital mock-ups of all sizes. It simulates mechanism motion with mouse-based manipulation and analyzes it through checking interferences and computing minimal distances. Traces or swept volume of moving parts can be generated.

**ENOVIA - DMU Optimizer 2****5691-DMO,5693-DMO**

DMU Optimizer 2 creates alternate representations of products and assemblies for size reduction or geometry creation better adapted to specific contexts. Thus, you can create reduced but accurate representations of parts or assemblies by keeping only their external representation. You can generate simplified representations of parts, ensuring confidentiality protection when communicating with suppliers.

**ENOVIA - DMU Review 1 Configuration****5691-DM1**

ENOVIA DMU Review 1 provides in one license all of the tools necessary for technical data and digital product visualization. It enables collaborative digital mock-up (DMU) reviews using powerful visualization, navigation and communication capabilities. A large number of tools (annotation support, hyperlink and animation creation, publishing and conferencing tools) facilitate collaboration between all team members involved in the digital mock-up inspection.

**Included Software:** ENOVIA - Real Time Rendering 1, ENOVIA - DMU Dimensioning & Tolerancing Review 1

**ENOVIA - DMU Review 2 Configuration****5691-DM2**

ENOVIA DMU Review 2 provides in one seat all the tools necessary for advanced digital product visualization and review. It enables advanced collaborative DMU reviews, packaging and pre-assembly verification using optimum visualization, navigation and communication capabilities. A large number of tools (annotation support, hyperlink and animation creation, publishing and conferencing tools) facilitate collaboration between all team members involved in the DMU inspection.

**Included Software:** ENOVIA - Real Time Rendering 1, ENOVIA - DMU Dimensioning & Tolerancing Review 1, ENOVIA - DMU Space Analysis 2

**ENOVIA - DMU Space Analysis 1****5693-SP1**

DMU Space Analysis 1 performs interference detection and 3D geometry comparison for DMU verification. It computes clash, clearance, and contact information and enables users to view conflict details. 3D geometries can also be compared and the result can be visualized in a dedicated viewer where sectioning and measurement on the section are available to further understand and assess differences between them.

**ENOVIA - DMU Space Analysis 2****5691-SPA,5693-SPA**

DMU Space Analysis 2 performs optimum DMU verification using advanced interference detection and analysis, superior sectioning analysis, measurement, distance analysis and 3D geometry comparison tools. Interferences can be detected interactively or in batch mode, analyzed, and results can be saved. Tools are included in the product for distance analysis and 3D geometry comparison. Distance analysis of motion simulations and animation of sectioning results are possible through integration with other DMU products.

**ENOVIA - DMU Viewer 1 Configuration****5691-DV1**

ENOVIA DMU Viewer 1 (DV1) provides the tools for data visualization and basic analysis and collaboration for all non-engineers and non-DMU experts in the enterprise.

**ENOVIA - Document Management****5693-DMT**

ENOVIA Document Management enables documents to be managed under a single repository regardless of the vaults' (electronic storage systems) location, which can be anywhere in the network. For added convenience, a user is able to perform certain document management functions (check-in and check-out, save) from popular applications (such as Microsoft Office applications) and from CAD authoring tools (such as CATIA V5).

**Prerequisite IBM Software:** ENOVIA - Casual User Configuration, ENOVIA - Security Administrator Configuration

**ENOVIA - Engineering Change Management****5693-ECM**

ENOVIA Engineering Change Management provides out-of-the-box engineering change request (ECR) and engineering change order (ECO) processes to formally validate, authorize and track changes to objects within ENOVIA V5. An ECR process captures a request for change and routes it to various related departments for validation and impact and cost analysis. An ECO process captures a full definition of work required to perform a change, which can be planned as a series of linked work packages that are systematically distributed to all affected organizations.

**Prerequisite IBM Software:** ENOVIA - Casual User Configuration, ENOVIA - Security Administrator Configuration

**ENOVIA - Human Activity Analysis 2****5691-HAA,5693-HAA**

Human Activity Analysis 2 is an add-on to Human Builder 2 that allows you to maximize human comfort, safety, and performance through a wide range of advanced ergonomics analysis tools that comprehensively evaluate all elements of a human's interactions with a product and specifically analyze how a mannequin will interact with objects in its virtual environment.

**Prerequisite IBM Software:** ENOVIA - Human Builder 2

**ENOVIA - Human Builder 2****5691-HBR,5693-HBR**

Human Builder 2 creates and manipulates accurate standard digital humans in the digital mock-up environment for early human-product interaction analysis. Tools provided include mannequin generation, gender and percentile specification, mannequin manipulation techniques, animation generation, and advanced vision simulation. A user-friendly interface ensures that first level human factors studies can be undertaken by non-human factors specialists.

**ENOVIA - Human Measurements Editor 2****5691-HME,5693-HME**

Human Measurements Editor 2 is an add-on to Human Builder 2 allowing the user to create advanced, user-defined mannequins using a number of advanced anthropometry tools. The mannequins can then be used to assess the suitability of a product against its intended target audience. Human Measurements Editor 2 is effectively used in conjunction with Human Builder 2, Human Posture Analysis 2 and Human Activity Analysis 2.

**Prerequisite IBM Software:** ENOVIA - Human Builder 2

**ENOVIA - Human Posture Analysis 2****5691-HPA,5693-HPA**

Human Posture Analysis 2 is an add-on to Human Builder 2 that allows you to analyze all quantitative and qualitative aspects of mannequin posture. Whole body and localized postures can be examined, scored and iterated to determine operator comfort and performance when interacting with the product in accordance with published comfort databases. It allows users to create their own specific comfort and strength library for the needs of each individual application.

**Prerequisite IBM Software:** ENOVIA - Human Builder 2

**ENOVIA - LCA Enterprise Process Definition****5693-EPD**

ENOVIA LCA Enterprise Process Definition (EPD) is a complementary product to enhance WebSphere MQ Workflow. During process definition, EPD provides process designers with utilities to import LCA P&O (People and Organization) and object definitions into WebSphere MQ Workflow environment. Having LCA object and resources information allows process designers to effortlessly design an enterprise process covering both engineering-centric activities, which requires access to product and resource information in ENOVIA, with non engineering activities, such as financial information gathering from SAP in a harmoniously orchestrated process flow.

**Prerequisite IBM Software:** ENOVIA - LCA Product Lifecycle Review Configuration, ENOVIA - LCA Product Lifecycle Management Configuration, ENOVIA - LCA Enterprise Process Management Configuration, ENOVIA - LCA System & Users Administration Configuration, IBM WebSphere MQ Family

**ENOVIA - LCA Enterprise Process Management Configuration****5691-LCP**

ENOVIA - LCA Enterprise Process Management Configuration targets user who need to participate in enterprise business process administration and management. Two types of workflow users are addressed by this configuration: Process administrators and process users (initiators and participants).

**Prerequisite IBM Software:** IBM WebSphere MQ Family (MQ Workflow), IBM WebSphere Application Server

**Related IBM Software:**

IBM Lotus Sametime Standard	Enables real-time instant 3D collaboration.
IBM WebSphere Portal Server	ENOVIA - LCA Enterprise Process Management Configuration can be deployed in a WebSphere Portal environment.

**ENOVIA - LCA Product Lifecycle Management Configuration****5691-LCM**

ENOVIA LCA Product Lifecycle Management Configuration provides project and change management capabilities. All products included in this configuration operate within the new web-based, light client environment of ENOVIA LCA and can be integrated into a WebSphere Portal environment.

**Prerequisite IBM Software:** IBM WebSphere Application Server

**Related IBM Software:**

IBM Lotus Sametime Standard	Enables real-time instant 3D collaboration.
IBM WebSphere Portal Server	All products included in this configuration can be integrated into a WebSphere Portal environment.

**ENOVIA - LCA Product Lifecycle Review Configuration****5691-LCR**

ENOVIA LCA Product Lifecycle Review Configuration is an entry configuration for the new web-based, light client ENOVIA V5 LCA Solution.

**Prerequisite IBM Software:** IBM WebSphere Application Server

**Related IBM Software:**

IBM Lotus Sametime Standard Enables real-time instant 3D collaboration.

IBM WebSphere Portal Server This configuration can be deployed in a WebSphere Portal environment.

**ENOVIA - LCA Product Simulation Management**

**5693-PSL**

ENOVIA LCA Product Simulation Management (PSL) captures and manages simulation processes and data from 3rd party simulation and analysis applications such as NASTRAN, PATRAN and ABAQUS. .

**Prerequisite IBM Software:** ENOVIA - LCA Product Lifecycle Management Configuration

**ENOVIA - LCA System & Users Administration Configuration**

**5691-SUA**

ENOVIA - LCA System & Users Administration Configuration addresses the needs of corporate or departmental administrators whose main activities include: Performing ENOVIA VPLM system installation, setting up ENOVIA VPLM databases and setting up people and organization (P&O) profiles.

**Prerequisite IBM Software:** IBM WebSphere Application Server, IBM WebSphere Portal Server

**ENOVIA - LCA Workflow Definition**

**5693-WDF**

ENOVIA Workflow Definition (WDF) enables business process managers to design workflow templates that are XML-based and WfMC (Workflow Management Coalition)-compliant. Readily available workflow templates that can be easily adapted to departmental needs allow for rapid and standardized process deployment across the enterprise.

**Prerequisite IBM Software:** ENOVIA - LCA Product Lifecycle Management Configuration

**ENOVIA - Live Collaborative Review Product**

**5677-LCV**

ENOVIA - Live Collaborative Review enables comprehensive collaboration sessions for decision processes involving geographically distributed multi-discipline teams. This product adds robust collaborative review capabilities to the powerful search, visualize and navigate paradigm delivered in 3DLive. Providing out-of-the-box support for CATIA — 3DLive and ENOVIA 3DLive, ENOVIA — Live Collaborative Review users can leverage 2D and 3D annotations, annotated views, 3D measurements, and 3D cross sections for collaborative studies and presentations. The output from these collaborative studies can be published in 3D XML format.

**Included Software:** CATIA - 3DLive Configuration (or), ENOVIA - 3DLive Configuration

**ENOVIA - MULTI PDM - OP Plug-In**

**5691-OGL**

The ENOVIA Multi-PDM OP Plug-in (OGL) can be used in conjunction with the ENOVIA PPR Navigator to provide Web-based access to and navigation of Optegra data. It provides a read access to Optegra PS file data.

**Prerequisite IBM Software:** ENOVIA - 3d com Navigator Configuration

**ENOVIA - MULTI PDM - SMARTEAM Plug-In**

**5693-SML**

ENOVIA Multi-PDM SMARTEAM Plug-in (SML) provides access to data and navigation on SMARTEAM data.

**Prerequisite IBM Software:** ENOVIA - 3d com Navigator Configuration

**ENOVIA - MULTICAx - AD Plug-In**

**5691-DAL**

MULTICAx Plug-in 1 (DAL) provides the ability read AutoCAD formats (DXF, ACIS, Inventor) into CATIA V5, DELMIA V5 and ENOVIA V5 DMU.

**ENOVIA - MULTICAx - ID Plug-In**

**5691-IDL**

MULTICAx ID Plug-in 1 (IDL) provides the ability read I-DEAS data into CATIA V5, DELMIA V5 and ENOVIA V5 DMU.

**ENOVIA - MULTICAx - PD Plug-In**

**5691-PDL**

MULTICAx PD Plug-in 1 (PDL) provides the ability read Pro/Engineer data into CATIA V5, DELMIA V5 and ENOVIA V5 DMU.

**ENOVIA - MULTICAx - SE Plug-In**

**5691-DEL**

MULTICAx SE Plug-in 1 (DEL) provides the ability read SolidEdge and Parasolid based data into CATIA V5, DELMIA V5 and ENOVIA V5 DMU.

**ENOVIA - MULTICAx - SOLIDWORKS Plug-In**

**5691-DSL**

MULTICAx Solidworks Plug-in 1 (DSL) provides the ability read Solidworks data into CATIA V5, DELMIA V5 and ENOVIA V5 DMU.

**ENOVIA - MULTICAx - STEP Plug-In**

**5691-DTL**

ENOVIA MULTICAx-STEP Plug-in (DTL) provides the ability to read STEP structure and geometry data into CATIA V5, DELMIA V5 and ENOVIA V5 DMU.

**ENOVIA - MULTICAx - UD Plug-In**

**5691-UDL**

MULTICAx UD Plug-in 1 (UDL) provides the ability read Unigraphics data into CATIA V5, DELMIA V5 and ENOVIA V5 DMU.



**ENOVIA - Photo Studio 2****5691-PHS,5693-PHS**

Photo Studio 2 generates high quality photo-realistic images and movies of a digital mock-up, using a powerful ray-tracing engine. This engine drastically enhances the realism of the resulting images by computing soft shadows as well as accurate reflections and refractions of light. PHS manages reusable scene settings and delivers animation capabilities.

**ENOVIA - Photo Studio Optimizer 2****5691-PSO,5693-PSO**

Photo Studio Optimizer 2 is an essential complement to Photo Studio 2 to create images and movies that will match reality. PSO extends the PHS rendering capabilities with advanced technologies as global illumination and caustics.

**ENOVIA - PPR Hub Gateway****5693-PGW**

ENOVIA PPR Hub Gateway (PGW) provides a data exchange infrastructure that is based on STEP format. This infrastructure is used for performing data exchange in STEP AP203, AP214, PDM Schema 1.1 and ENOV\_DATA Express Schema (a neutral ENOVIA LCA object model) protocols. The same infrastructure can also be used for performing migration from CDM, ENOVIAVPM, or ENOVIAIPM to ENOVIA LCA. The PGW infrastructure allows for extensive data validation and healing during export and import. The infrastructure consists of several components, each with a specialized function to perform on the exchanged data: extraction, validation, mapping and reconciliation.

**Prerequisite IBM Software:** ENOVIA - Professional User Configuration, ENOVIA - System and Data Administrator Configuration, ENOVIA - Casual User Configuration, ENOVIA - Security Administrator Configuration

**ENOVIA - PPR Hub SA Adapter****5693-SAH**

ENOVIA PPR Hub SA Adapter (SAH) helps connect product development and production processes by providing the capability to send ENOVIA LCA engineering bill of materials (EBoM) data to SAP R/3. This eliminates the need for data re-entry and ensures data integrity.

**Prerequisite IBM Software:** ENOVIA - Casual User Configuration, ENOVIA - Security Administrator Configuration, ENOVIA - Professional User Configuration, ENOVIA - System and Data Administrator Configuration

**ENOVIA - PPR Hub STEP PART 21 Adapter****5693-STH**

ENOVIA PPR Hub STEP Part21 Adapter (STH) provides specific mappers required to perform STEP data exchange in STEP AP203, AP214 and PDM Schema 1.1 protocols. The mappers are to be employed with the ENOVIA PPR Hub Gateway (PGW) product, which supplies the STEP-based export and import infrastructure.

**Prerequisite IBM Software:** ENOVIA - Casual User Configuration, ENOVIA - Security Administrator Configuration, ENOVIA - Professional User Configuration, ENOVIA - System and Data Administrator Configuration

**ENOVIA - Product Variant Management****5693-PVM**

ENOVIA Product Variant Management (PVM) provides functionality for product planners to define product models and option packages for each model. These marketing-oriented definitions are inserted early in the product development process to directly control the set of product variants that will be designed and built, bridging the market demand fulfillment process and product development process.

**Prerequisite IBM Software:** ENOVIA - Casual User Configuration, ENOVIA - Professional User Configuration, ENOVIA - Security Administrator Configuration

**ENOVIA - Professional User Configuration****5691-MGR**

ENOVIA Professional User Configuration allows groups of users whose job requires them to review tasks that have been performed in ENOVIA VPM. These users must be able to perform digital mockup viewing in CATIA or ENOVIA DMU.

**ENOVIA - Program Management****5693-PGT**

ENOVIA Program Management (PGT) is designed for managers and administrators responsible for overseeing several programs that might be under development within an organization. The program editor application is provided for defining programs and the milestones within each program. Program milestones, which are usually associated with specific dates or product unit numbers, can be used to configure a product.

**Prerequisite IBM Software:** ENOVIA - Professional User Configuration, ENOVIA - Casual User Configuration, ENOVIA - Security Administrator Configuration

**ENOVIA - Real Time Rendering 1****5693-RT1**

Real Time Rendering 1 enables designers to leverage technological material specifications to produce realistic renderings of their model. Texture can be created from scratch, modified from imported digital images, or selected from the included library. Associativity is maintained between the material library and the material applied to the parts.

**ENOVIA - Real Time Rendering 2****5691-RTR,5693-RTR**

Real Time Rendering 2 enables designers to create realistic and dynamic renderings and animations in real-time by extensively using all the hardware features available. You can dynamically create and manipulate materials, lights and environments and immediately view the result of any modification.

**ENOVIA - Security Administrator Configuration****5691-ADR**

ENOVIA Security Administrator Configuration allows systems administrators to maintain profiles of people, organizations and access privileges that are granted to each profile.

**ENOVIA - Structure Penetration Management****5691-SPT**

ENOVIA Structure Penetration Management provides support for managing the design of system elements such as piping and electrical harnesses that must be routed through a solid structure. This process is a typical design activity in shipbuilding, aerospace and other industries involving complex multi-disciplinary components.

**Prerequisite IBM Software:** ENOVIA - System and Data Administrator Configuration, ENOVIA - VPM Engineering Configuration

**ENOVIA - Supply Chain Exchange****5693-SCE**

ENOVIA Supply Chain Exchange (SCE) provides functions for exchanging project-based product data with suppliers and partners. Exchanges are performed in standard-based (STEP) format to enable manufacturers to exchange product structures along with associated 3D design data with partners who might be using different product data management systems.

**Prerequisite IBM Software:** ENOVIA - Casual User Configuration, ENOVIA - Security Administrator Configuration, ENOVIA - Professional User Configuration, ENOVIA - System and Data Administrator Configuration

**ENOVIA - System and Data Administrator Configuration****5691-RVR**

ENOVIA System and Data Administrator Configuration allows system administrators to perform day-to-day maintenance of ENOVIA V5 VPM systems and end-user support.

**Prerequisite IBM Software:** IBM WebSphere Application Server

**Related IBM Software:**

IBM Lotus Sametime Standard                      Enables real-time instant 3D collaboration.

IBM WebSphere Portal Server                      This configuration can be deployed to a WebSphere Portal Server environment.

**ENOVIA - Vault Administrator Configuration****5691-VAR**

ENOVIA Vault Administrator Configuration is targeted at system administrator who specializes in managing the ENOVIA V5 VPM vaults. Prior to V5 R13, certain vault administration functions were available through the System and Administration Configuration. It is now packaged as a separate product to more specifically target the vault administrator. Specific new functions are also added into the products to improve management, such as backup and restore and multi-site management.

**ENOVIA - VPM DMU Review Configuration****5691-VDM**

ENOVIA VPM DMU Review (VDM) allows review engineers to review the product information contained in the engineering hub directly from ENOVIA DMU and save the results of the DMU review back in the engineering hub.

**Included Software:** ENOVIA - Action Editor

**ENOVIA - VPM Electrical Cable Route Management****5693-ECV,5691-ECV**

ENOVIA VPM Electrical Cable Route Management (ECV) manages and gathers all the necessary information for cable routing definition and validation processes. It handles the large amount of electrical diagrams, equipments and cableways required by large projects of shipbuilding and plant design. It drastically improves the usage of CATIA Electrical Cableway Routing 2 (ECR) for cable routing definition and validation on large electrical 2D and 3D cableway network with full concurrent engineering capabilities. It provides a comprehensive 3D environment for cable routing with large, scalable multiple cableway 3D networks extracted from product definition.

**Prerequisite IBM Software:** ENOVIA - VPM Product Design Configuration, ENOVIA - VPM DMU Review Configuration

**ENOVIA - VPM Engineering Configuration****5691-VER**

ENOVIA VPM Engineer (VER) profile refers to a group of users whose job requires them to design parts, assemblies and products. These users normally perform the design directly in CATIA V5 and save the design work in ENOVIA LCA afterwards. This profile includes design managers with additional responsibilities such as managing work assignments (Actions) related to the design activities, performing clash analysis and exchanging data with suppliers.

**Included Software:** ENOVIA - Action Editor

**ENOVIA - VPM Product Design Configuration****5691-DER**

All applications provided within ENOVIA VPM Design Engineer Configuration (DER) are available through CATIA V5 user interface. This allows designers to access both design and lifecycle management functions from within CATIA V5 to facilitate easy adoption of ENOVIA V5 VPM functions among CATIA users.

**Included Software:** ENOVIA - Action Editor

**ENOVIA - VPM Supply Chain Engineering Exchange****5693-WPE,5691-WPE**

ENOVIA VPM Workpackage exchange is a decision support tool to decide how to integrate supplier's CATIA V5 design back into an ENOVIA V5 VPM/CATIA V5 installation.

**Prerequisite IBM Software:** ENOVIA - VPM Product Design Configuration, ENOVIA - VPM DMU Review Configuration

### **MatrixOne Adaplet Development Kit**

**5674-ADT**

MatrixOne Adaplet Development Kit delivers documentation and examples for writing custom MatrixOne programs that use the Adaplet libraries available in the MatrixOne Platform. An Adaplet is a MatrixOne proprietary technology to communicate to other data sources and represent this data as if it is native to the MatrixOne system.

**Prerequisite IBM Software:** MatrixOne Platform

### **MatrixOne Aerospace & Defense Accelerator for Program Management**

**5672-AER**

MatrixOne Aerospace & Defense Accelerator for Program Management manages development programs while helping ensure compliance with contractual guidelines and regulations. It provides an integration environment for tracking a program's information about requirements, product architecture and configuration, schedules, and deliverables.

**Prerequisite IBM Software:** MatrixOne Product Central, MatrixOne Program Central

### **MatrixOne Apparel Accelerator for Design and Development**

**5672-APR**

MatrixOne Apparel Accelerator for Design and Development delivers a single environment to manage an apparel company's product, project, color, material, line plan, and vendor data. It effectively allocates and manages resources across functional teams by tracking seasonal line planning calendars, approvals and responsibilities. Companies using the MatrixOne Accelerator for Design and Development can quickly react to shifts in seasonal requirements, industry trends, and consumer tendencies by leveraging robust and flexible workflow and planning templates visible to product/project team members.

**Prerequisite IBM Software:** MatrixOne Product Central, MatrixOne Program Central

### **MatrixOne Application Development Kit**

**5674-ADV**

MatrixOne Application Development Kit delivers documentation and examples for writing custom MatrixOne programs that use the programming libraries available in the MatrixOne Platform.

**Prerequisite IBM Software:** MatrixOne Platform

### **MatrixOne Application Exchange Framework**

**5672-AEF**

MatrixOne Application Exchange Framework provides schema and user interface components for building all MatrixOne products. Its user interface components can be leveraged by users to expand standard MatrixOne product functionality with unique capabilities. This product also enables seamless process execution by defining how data should be shared across all MatrixOne products. This data model is designed to easily integrate with other IBM/Dassault Systèmes products, such as 3DLive, which enables 3D collaboration and product visualization.

**Prerequisite IBM Software:** MatrixOne Platform

### **MatrixOne AutoCAD Integration**

**5672-AAD**

MatrixOne AutoCAD Integration leverages Designer Central capabilities to add data management for AutoCAD.

**Prerequisite IBM Software:** MatrixOne Designer Central

### **MatrixOne Automotive Accelerator for Program Management (APQP)**

**5672-AUT**

The MatrixOne Automotive Accelerator for Program Management (APQP) provides automotive companies with the processes and tools to manage and improve the execution of complex automotive vehicle programs through the supply chain tiers with industry best practices and standards. The product includes industry-specific standard templates for the phase-gate Advanced Product Quality Planning (APQP) process and the standard Product Part Approval Process (PPAP) incorporating the latest ISO/TS 16949 standard. It contains these pre-defined work processes, industry specific data models, reports, role-based user interfaces, and document management capabilities to help provide rapid ROI and benefits to the implementation.

**Prerequisite IBM Software:** MatrixOne Program Central, MatrixOne Supplier Central

### **MatrixOne Autonomy K2 Integration**

**5672-AK2**

MatrixOne Autonomy K2 Integration delivers an interface to a customer's Autonomy K2 full-text search server for faster 'keyword' searching of MatrixOne data and associated files.

**Prerequisite IBM Software:** MatrixOne Application Exchange Framework

### **MatrixOne Business Metrics Module**

**5672-BMM**

MatrixOne Business Metrics Module helps companies drive continuous business process improvements to operate more efficiently. Using a comprehensive set of metrics-based reports, users and managers can create and define views of the company's product data as well as analyze historical data and trends in order to help make better strategic decisions.

**Prerequisite IBM Software:** MatrixOne Application Exchange Framework

### **MatrixOne Cadence Allegro Design Entry HDL Integration**

**5672-CDH**

MatrixOne Cadence Allegro Design Entry HDL Integration leverages Designer Central capabilities to add data management for Cadence Allegro Design Entry HDL.

**Prerequisite IBM Software:** MatrixOne Designer Central

### **MatrixOne Cadence Allegro PCB Editor Integration**

**5672-CDP**

MatrixOne Cadence Allegro PCB Editor Integration leverages Designer Central capabilities to add data management for Cadence Allegro PCB Editor.

**Prerequisite IBM Software:** MatrixOne Designer Central

### **MatrixOne Cadence Project Manager Integration**

**5672-CDM**

MatrixOne Cadence Project Manager Integration leverages Designer Central capabilities to add data management for Cadence.

**Prerequisite IBM Software:** MatrixOne Designer Central

### **MatrixOne CATIA V4 Integration**

**5672-CT4**

MatrixOne CATIA V4 Integration leverages Designer Central capabilities to add data management for CATIA V4.

**Prerequisite IBM Software:** MatrixOne Designer Central

### **MatrixOne CATIA V5 Integration**

**5672-CT5**

MatrixOne CATIA V5 Integration leverages Designer Central capabilities to add data management for CATIA V5.

**Prerequisite IBM Software:** MatrixOne Designer Central

### **MatrixOne Cimmetry AutoVue Professional w/Integration (2D)**

**5672-C2D**

MatrixOne Cimmetry AutoVue Professional w/Integration (2D) allows users to view and mark up a file checked into MatrixOne without having access to the tool used to author the file.

**Prerequisite IBM Software:** MatrixOne Application Exchange Framework

### **MatrixOne Cimmetry AutoVue Professional w/Integration (3D)**

**5672-C3D**

MatrixOne Cimmetry AutoVue Professional w/ Integration (3D) allows users to view and mark up a file checked into MatrixOne without having access to the tool used to author the file.

**Prerequisite IBM Software:** MatrixOne Application Exchange Framework

### **MatrixOne ClearCase Integration**

**5672-CLC**

MatrixOne ClearCase Integration provides access to software engineering content from the MatrixOne PLM system while still allowing software developers to use IBM Rational ClearCase for source code control and build management. The net result should be better cross-functional collaboration across the extended enterprise without impact on software engineering productivity.

**Prerequisite IBM Software:** MatrixOne Engineering Central

### **MatrixOne Cost Analytics Module**

**5672-CST**

MatrixOne Cost Analytics Module allows manufacturing companies to estimate, track and manage product costs very early in the product lifecycle. It enables cost analysts, engineers, and buyers to analyze BOMs using standard or actual costs for existing parts and estimated or quoted costs for new or modified parts. This helps organizations implement a design-to-cost methodology for their new product introduction (NPI) process. It enables cross-functional teams from engineering, finance and purchasing to understand and analyze their standard product costs, cost of change, cost targets and expected margins early in the NPI process. The net result is improved product margins and enterprise profitability.

**Prerequisite IBM Software:** MatrixOne Engineering Central

### **MatrixOne Designer Central**

**5672-DEC**

MatrixOne Designer Central enables designers around the world to manage and collaborate from one application, for a wide variety of design tools. It eliminates the need for multiple CAD work group managers and the associated cost supporting each related data manager.

Through its unique and open architecture, the application can be deployed and supported from a central location, while the file locations can be distributed and controlled around the world to provide end users with improved performance during file downloads and uploads. Product designs can be synchronized to the parts in the EBOMs so that the overall product development process stays coordinated.

It delivers collaboration tools to synchronously or asynchronously communicate across the globe. Through its collaboration capabilities, needless design iterations can be eliminated, and real-time viewing and markup of designs can occur, even in the absence of the native design tools. Meetings can be scheduled with design content securely provided as part of the meeting, while discussion threads and markups allow for the capture of innovative thoughts in a natural, informal way without restricting end user creativity.

**Prerequisite IBM Software:** MatrixOne Application Exchange Framework

### **MatrixOne Designer Central for Visualization**

**5672-DEV**

MatrixOne Designer Central for Visualization delivers collaboration tools for customers that have decided to develop their own xCAD

model upload and download capabilities or take advantage of basic MatrixOne file management capabilities. It allows design workgroups to synchronously or asynchronously communicate across the globe.

Through its collaboration capabilities, needless design iterations can be eliminated, and real-time viewing and markup of designs can occur, even in the absence of the native design tools. Meetings can be scheduled with design content securely provided as part of the meeting, while discussion threads and markups allow for the capture of innovative thoughts in a natural, informal way without restricting end user creativity.

**Prerequisite IBM Software:** MatrixOne Application Exchange Framework

### **MatrixOne Engineering Central**

**5672-ENG**

MatrixOne Engineering Central enables companies to help eliminate the significant process and data communication barriers that exist between mechanical, electronics and software engineering disciplines within the enterprise and the product supply chain. Key 'design anywhere, build anywhere' business challenges are addressed with: Improved communication and collaboration with global development teams comprised of internal and external resources; Advanced part and bill-of-materials (BOM) management capabilities; Global product development and change processes that are intended to provide the right information to the right users at the right time.

**Prerequisite IBM Software:** MatrixOne Application Exchange Framework

### **MatrixOne Expedition (VeriBest) Integration**

**5672-VEB**

MatrixOne Expedition (VeriBest) Integration leverages Designer Central capabilities to add data management for Expedition (VeriBest).

**Prerequisite IBM Software:** MatrixOne Designer Central

### **MatrixOne Inventor Integration**

**5672-INV**

MatrixOne Inventor Integration leverages Designer Central capabilities to add data management for Inventor.

**Prerequisite IBM Software:** MatrixOne Designer Central

### **MatrixOne JD Edwards Direct Integration**

**5674-JDD**

The MatrixOne JD Edwards Direct Integration enables real-time and bi-directional exchange of part and bill-of-material data and operational data such as manufacturing costs, and inventory status between MatrixOne Engineering Central and a given ERP application to facilitate collaboration between product engineering and manufacturing operations.

**Prerequisite IBM Software:** MatrixOne Engineering Central

### **MatrixOne JD Edwards EnterpriseOne Integration**

**5674-JDE**

The MatrixOne JD Edwards EnterpriseOne integration enables real-time and bi-directional exchange of part and bill-of-material data and operational data such as manufacturing costs, and inventory status between MatrixOne Engineering Central and a given ERP application to facilitate collaboration between product engineering and manufacturing operations.

**Prerequisite IBM Software:** MatrixOne Engineering Central

### **MatrixOne Library Central**

**5672-LIB**

MatrixOne Library Central enables companies to achieve a competitive advantage by accelerating product development and delivery through reuse.

**Prerequisite IBM Software:** MatrixOne Application Exchange Framework

### **MatrixOne Manufacturing Bill-of-Material Module**

**5672-MFG**

The MatrixOne Manufacturing Bill-of-Material Module delivers a manufacturing BOM management solution complementing MatrixOne Engineering Central (TM), which manages engineering bill-of-materials (EBOM) and related engineering documentation. The combined solution supports a seamless flow of product development and manufacturing data and processes in support of a Data Management Association business model.

**Prerequisite IBM Software:** MatrixOne Engineering Central

### **MatrixOne Materials Compliance Central**

**5672-MCC**

MatrixOne Materials Compliance Central enables companies to implement a Design for Environment solution with best business practice that include the ability to collect, integrate, analyze, and report a product's environmental compliance throughout its development lifecycle. Product development teams can check material content information from any design view, and are able to cross-reference this data against multiple regulations.

Designers can quickly determine if components meet compliance standards and substance thresholds in order to make any necessary changes early in the design process. Reports can be generated that compare the compliance of manufacturing equivalents, list recyclable content, or evaluate best- and worst-case manufacturing location scenarios. Suppliers can be incorporated into the material compliance evaluation process to ensure the component library contains the most current material composition and Restriction of Hazardous Substances (RoHS) certifications.

This provides critical information to design engineering when making choices based on the customer and/or market requirements that new products must meet. The net result is delivering innovative and environmentally compliant products that meet global market

demands.

**Prerequisite IBM Software:** MatrixOne Application Exchange Framework

**MatrixOne Materials Compliance Central Compliance Connect Spreadsheet** **5674-MCN**

MatrixOne Materials Compliance Central Compliance Connect Spreadsheet allows users to enter materials substance information offline using a Microsoft Excel spreadsheet. Entered data can be uploaded into the MatrixOne database using the Materials Compliance Central importer.

**Prerequisite IBM Software:** MatrixOne Materials Compliance Central

**MatrixOne Materials Compliance Central Supplier Portal** **5672-MSU**

MatrixOne Materials Compliance Central Supplier Portal allows a company's suppliers to view their assigned material declaration requests, review the customer's reporting deadlines and upload completed materials declarations.

**Prerequisite IBM Software:** MatrixOne Platform

**MatrixOne Medical Device Accelerator for Regulatory Compliance** **5672-MED**

The MatrixOne Medical Device Accelerator for Regulatory Compliance manages a medical device company's Quality System Regulation (QSR) and International Organization for Standardization (ISO) regulated design processes, projects, documents, and data. It provides robust audit trails and powerful authentication controls for FDA Part 11 compliance. The MatrixOne Medical Device Accelerator for Regulatory Compliance is composed of two key parts: First the Enterprise Design Control and second Project and Program Control.

The products design control capabilities manage all elements of the Device Master Record from a single, integrated source. This includes product data such as mechanical and BOMs, CAD model, configurations and related documentation such as drawings, specifications, procedures, and quality standards. Corrective and Preventive Action (CAPA) incidents are managed from initiation through change control to closure while maintaining electronic linkages to the implicated products and documents.

The products project and program control capabilities synchronize Design History Files with product development's project deliverables. Companies can embed best practices and critical-to-quality drivers into standard, repeatable project templates.

**Prerequisite IBM Software:** MatrixOne Engineering Central, MatrixOne Program Central

**MatrixOne Mentor Graphics Design Manager Integration** **5672-MGM**

MatrixOne Mentor Graphics Design Manager Integration leverages Designer Central capabilities to add data management for Mentor Graphics Design Manager.

**Prerequisite IBM Software:** MatrixOne Designer Central

**MatrixOne Microsoft Desktop Integration** **5672-MSF**

MatrixOne Microsoft Desktop Integration enables rapid adoption and intuitive usage of MatrixOne PLM products in Microsoft-centric organizations by allowing product development teams to create, retrieve, edit, and share MatrixOne-based product content while engaged in familiar Microsoft programs including Microsoft Word, Excel, PowerPoint and Outlook. With this integration, users should be able to incorporate MatrixOne PLM functions into their Microsoft applications without disrupting established productivity.

**Prerequisite IBM Software:** MatrixOne Application Exchange Framework

**MatrixOne Microstation Integration** **5672-MCR**

MatrixOne Microstation Integration leverages Designer Central capabilities to add data management for MicroStation and MicroStation XM.

**Prerequisite IBM Software:** MatrixOne Designer Central

**MatrixOne Oracle Manufacturing Integration** **5674-ORM**

The MatrixOne Oracle Manufacturing Integration enables real-time and bi-directional exchange of part and bill-of-material data and operational data such as manufacturing costs, and inventory status between MatrixOne Engineering Central and a given ERP application to facilitate collaboration between product engineering and manufacturing operations.

**Prerequisite IBM Software:** MatrixOne Engineering Central

**MatrixOne Platform** **5672-PLF,5674-PLF**

MatrixOne Platform is the underlying support of all of the MatrixOne business process products. It has a very robust and broad integration API set, which allows integration to multiple third party enterprise and desktop tools—from Mechanical Computer Aided Design (MCAD) to Electronic Computer Aided Design (ECAD), to document management, ERP, and so on.

MatrixOne becomes the information or the product life-cycle management backbone. Now organizations can leverage their investments in third-party authoring tools and enterprising systems and pull that information together so knowledge workers can be prepared to make better decisions, conceptualize new products, and get them to market faster than ever before.

**MatrixOne Platform for Development and Test** **5674-DTE**

MatrixOne Platform for Development and Test allows a company to establish a development environment for testing any

customizations or configurations that are needed in their production MatrixOne system.

**Prerequisite IBM Software:** MatrixOne Platform

### **MatrixOne Platform for File Collaboration**

**5674-FCS**

MatrixOne Platform for File Collaboration allows users to deploy MatrixOne file servers closer to end users for improved file upload and download performance.

**Prerequisite IBM Software:** MatrixOne Platform

### **MatrixOne Product Central**

**5672-PRD**

MatrixOne Product Central enables improved communication and collaboration between a company's product planning and development organizations by managing and tracking evolving customer and market needs throughout the entire product development lifecycle. As a result, companies should be able to align stakeholders, accelerate time-to-market and maximize revenue potential and profitability associated with each product development effort.

**Prerequisite IBM Software:** MatrixOne Application Exchange Framework

### **MatrixOne Program Central**

**5672-PRG**

MatrixOne Program Central allows companies to create a competitive advantage by helping deliver products from concept to market faster. Organizations can free critical resources to concentrate on the most profitable products while standardizing best in class business processes across the extended enterprise. Through project pipeline dashboards, this solution provides management with real-time visibility into a project's status in terms of schedule, resources, costs and benefits. Ultimately, this allows for better decision making when analyzing which projects offer the highest potential return on investment.

**Prerequisite IBM Software:** MatrixOne Application Exchange Framework

### **MatrixOne Pro/ENGINEER Integration**

**5672-PRO**

MatrixOne Pro/ENGINEER Integration leverages Designer Central capabilities to add data management for Pro/ENGINEER.

**Prerequisite IBM Software:** MatrixOne Designer Central

### **MatrixOne Pro/INTRALINK Integration**

**5672-PRI**

MatrixOne Pro/INTRALINK Integration leverages Designer Central capabilities to add data management for Pro/INTRALINK.

**Prerequisite IBM Software:** MatrixOne Designer Central

### **MatrixOne QAD MFG/PRO Integration**

**5674-QAM**

The MatrixOne QAD MFG/PRO Integration enables real-time and bi-directional exchange of part and bill-of-material data and operational data such as manufacturing costs, and inventory status between MatrixOne Engineering Central and a given ERP application to facilitate collaboration between product engineering and manufacturing operations.

**Prerequisite IBM Software:** MatrixOne Engineering Central

### **MatrixOne SAP Integration**

**5674-SAM**

The MatrixOne SAP Integration enables real-time and bi-directional exchange of part and bill-of-material data and operational data such as manufacturing costs, and inventory status between MatrixOne Engineering Central and a given ERP application to facilitate collaboration between product engineering and manufacturing operations.

**Prerequisite IBM Software:** MatrixOne Engineering Central

### **MatrixOne Semiconductor Accelerator**

**5672-SCD**

The MatrixOne Semiconductor Accelerator delivers capabilities to address a number of key business challenges specific to the semiconductor industry. The standard capabilities are for the MatrixOne Semiconductor Accelerator for Team Collaboration Solution, which provides Web-based issue management and collaboration in secure, structured, virtual workplaces for ad-hoc collaboration amongst cross-functional and geographically dispersed teams.

Members can collaborate on design data documents and other product content through discussions, notifications, alerts and review/approval processes. In addition, the Semiconductor Accelerator provides capabilities for IP management, enterprise project management, and preparation of the integrated circuit (IC) BOM, which leverage the MatrixOne Semiconductor Accelerator for Team Collaboration Solution.

The optional capabilities activated with the MatrixOne Semiconductor Accelerator for IP Management Solution are for Intellectual Property (IP) and design reuse, which helps companies achieve a competitive advantage by accelerating semiconductor development and delivery. It makes it easy for IP catalog owners to classify and organize data in a hierarchy tailored to their company's business environment and products.

The optional capabilities activated with the Semiconductor Accelerator for Enterprise Project Management Solution include a number of pre-configured design flow templates, which allow companies to initiate new design projects using a consistent process across all design teams and locations. Templates can be used as-is or modified to include a company's best practices. The intended result is design teams working in a consistent, auditable fashion.

The optional capabilities activated with the MatrixOne Semiconductor Accelerator for Design to Manufacturing (D2M) Solution

enable preparation of the Integrated Circuit (IC) BOM. It aligns marketing requirements to design outputs and allows for the efficient flow of the right information at the right time across product design, manufacturing, assembly and test.

**Prerequisite IBM Software:** MatrixOne Team Central, MatrixOne Business Metrics Module

### **MatrixOne Solid Edge Integration**

**5672-SLE**

MatrixOne Solid Edge Integration leverages Designer Central capabilities to add data management for Solid Edge.

**Prerequisite IBM Software:** MatrixOne Designer Central

### **MatrixOne SolidWorks Integration**

**5672-SLW**

MatrixOne SolidWorks Integration leverages Designer Central capabilities to add data management for SolidWorks.

**Prerequisite IBM Software:** MatrixOne Designer Central

### **MatrixOne Sourcing Central**

**5672-SRC**

MatrixOne Sourcing Central is a strategic sourcing and quote management application that delivers out-of-the-box functionality to enable global organizations to help improve collaboration with their suppliers and partners, and help streamline the buyer-supplier interaction related to the sourcing of direct materials and highly engineered goods.

**Prerequisite IBM Software:** MatrixOne Application Exchange Framework

### **MatrixOne Specification Central**

**5672-SPC**

MatrixOne Specification Central delivers a single platform for secure specification management. It is designed to enable enterprises to better manage and standardize on the development, review, approval, and distribution of product specifications. This includes those related to packaging, raw materials and formulas. The result is a single and global view of each product specification with role-based visibility into the specification content.

**Prerequisite IBM Software:** MatrixOne Application Exchange Framework

### **MatrixOne Supplier Central**

**5672-SUP**

MatrixOne Supplier Central allows quality managers to improve quality from the very beginning of the product lifecycle. Quality managers can create part quality plans from Work Breakdown Structures templates, allowing quality planning methodologies to be standardized, customized, and measured with a combination of control and flexibility. Dashboards and status tools with drill-down capabilities inform managers of areas in need of attention, ideally before product delays occur.

**Prerequisite IBM Software:** MatrixOne Application Exchange Framework

### **MatrixOne Team Central**

**5672-TEA**

MatrixOne Team Central provides a secure, structured, virtual workplace that enables ad-hoc collaboration for cross-functional, multi-organizational and geographically dispersed teams.

**Prerequisite IBM Software:** MatrixOne Application Exchange Framework

### **MatrixOne Unigraphics Integration**

**5672-UGR**

MatrixOne Unigraphics Integration leverages Designer Central capabilities to add data management for UGS NX.

**Prerequisite IBM Software:** MatrixOne Designer Central

### **MatrixOne VPLM Enterprise X-BOM Management Integration**

**5672-VXB**

MatrixOne VPLM Enterprise X-BOM Management Integration enables a company to provide traceability between the mechanical product design in ENOVIA VPLM and the enterprise defined BOM managed by MatrixOne Engineering Central, which includes the product's electronics, software, and manufacturing definition. As a result, companies can manage Engineering Change Requests that span multiple design disciplines in order to properly assess impact.

Its capabilities can be extended by adding MatrixOne Product Central and/or MatrixOne Designer Central. The first can be used to define valid feature combinations to create product configurations and automatically generate the initial BOMs. MatrixOne Designer Central can be used to expose CATIA V5 models to extended enterprise. Likewise, when used as part of multi-CAD tool strategy, this information can be passed to VPLM for digital mockup analysis.

**Prerequisite IBM Software:** MatrixOne Engineering Central

### **MatrixOne VPLM Program Management Integration**

**5672-VPR**

MatrixOne VPLM Program Management enables a company to use program management capabilities from MatrixOne Program Central to schedule and track the design process in ENOVIA VPLM. Given the high scalability and enterprise-wide reach of Program Central, companies can aggregate the progress of multiple design teams into a single executive dashboard view, and also track inter-dependencies with other functional roles in the extended enterprise.

**Prerequisite IBM Software:** MatrixOne Program Central

### **MatrixOne Zuken Board Designer Integration**

**5672-ZBD**

MatrixOne Zuken Board Designer Integration leverages Designer Central capabilities to add data management for Zuken Board



Designer.

**Prerequisite IBM Software:** MatrixOne Designer Central

### **MatrixOne Zuken Board Producer Integration**

**5672-ZBP**

MatrixOne Zuken Board Producer Integration leverages Designer Central capabilities to add data management for Zuken Board Producer.

**Prerequisite IBM Software:** MatrixOne Designer Central

### **MatrixOne Zuken System Designer Integration**

**5672-ZSD**

MatrixOne Zuken System Designer Integration leverages Designer Central capabilities to add data management for Zuken System Designer.

**Prerequisite IBM Software:** MatrixOne Designer Central

### **SMARTEAM - AC Integration**

**5691-ACI,5693-ACI**

SMARTEAM - AC Integration (ACI) is the SMARTEAM integration for the AutoCAD environment that supports the in-process methodology, enabling management of vast amounts of documents and drawings directly from within the AutoCAD environment. ACI eliminates the need to re-key data and work on outdated designs, dramatically reducing errors and saving valuable time. Whether searching for the latest document, ensuring revision accuracy, or quickly previewing a document, ACI produces substantial design efficiencies.

**Prerequisite IBM Software:** SMARTEAM - Foundation, SMARTEAM - Editor

### **SMARTEAM - BOM**

**5691-BOM**

SMARTEAM - BOM (BOM) streamlines processes related to the creation and change of the bill of materials through the product lifecycle and across the value chain. BOM manages the bill of materials and its related information, from product concept through procurement, production, sales and maintenance. This essential function enables companies to manage, manipulate, and collaborate on product structures, including structure effectivity, by enabling dynamic hierarchical navigation through various viewing formats and simplified change tracking, as well as workflow automation on bill of material changes. The innovative BOM WhiteBoard (BWB) tool provides a sandbox environment to allow offline work on a tentative version without affecting actual product structure.

**Prerequisite IBM Software:** SMARTEAM - Foundation, SMARTEAM - Editor

### **SMARTEAM - CATIA Integration**

**5691-CAI,5693-CAI**

SMARTEAM - CATIA Integration (CAI) brings rich, seamlessly integrated Product Data Management (PDM) functions to CATIA Version 5 integration and ENOVIA DMU Navigator for the SMARTEAM environment. CAI allows easy storage, management and sharing of all common information related to an engineering project.

**Prerequisite IBM Software:** SMARTEAM - Foundation, SMARTEAM - Editor

### **SMARTEAM - CATIA Supplier Relational Design Exchange**

**5691-SEE**

SMARTEAM - CATIA Supply Change Engineering Exchange (SEE) enables SMARTEAM - CATIA Integration (CAI) users to fortify the bi-directional, CATIA V5 Relational Design data exchange with business partners through a lifecycle-managed, authentic CATIA V5 compare and reconciliation process that maintains data integrity and links consistency across heterogeneous partner environments (e.g. SMARTEAM, ENOVIA V5 VPM, ENOVIAvpm or any other PDM system). CAI users can interactively visualize and compare a set or a subset of CATIA documents coming, for example, from an Original Equipment Manufacturer (OEM) or a supplier, and reconcile / synchronize selected documents back into existing SMARTEAM-managed, CATIA V5 documents. Facilitating decision-making, and adhering to CATIA relational design associativity rules, SEE provides a valuable solution for key business scenarios and addresses daily supply chain interaction pains, by eliminating errors, saving time, and enabling companies to gain competitive advantages by providing innovative products to market faster.

**Prerequisite IBM Software:** SMARTEAM - CATIA Integration, SMARTEAM - Editor, SMARTEAM - Foundation

### **SMARTEAM - Community Workspace**

**5691-CMT**

SMARTEAM - Community Workspace (CMT) is a Web-based, project-oriented, collaborative portal that enables global product teams to easily, securely, and cost-effectively collaborate on and manage product information within their extended enterprise and across the supply chain, creating a true e-business on demand environment. Within unique Web portals, virtual product development communities can collaborate on a defined set of data within the SMARTEAM database after passing through rigorous authorization. Workflow participation is available through this product.

By enabling online collaboration, CMT brings e-business across the extended enterprise and across the supply chain. Companies can then leverage and extend their intellectual property with maximum flexibility, generating a true e-business on demand environment.

CMT is available through the SMARTEAM - Community Workspace Configuration only.

**Prerequisite IBM Software:** SMARTEAM - Foundation

### **SMARTEAM - Community Workspace Configuration**

**5691-SCT**

SMARTEAM - Community Workspace Configuration (SCT) enables companies and global product teams to easily and securely

collaborate on and manage product information within their extended Enterprise and across the supply chain.

**Included Software:** SMARTEAM - Foundation, SMARTEAM - Community Workspace

### **SMARTEAM - Development Suite**

**5691-DVS**

SMARTEAM - Development Suite (DVS) is a tool for enhanced development. It expands on SMARTEAM - Foundation's Windows-based customizability by providing the ability to access the SMARTEAM API from any platform, via the Web. DVS enables organizations to leverage SMARTEAM collaborative PLM (with PDM capabilities and PDM data) into any system, on any platform, anywhere, so as to streamline business processes, leverage investments, and enhance applications. Organizations can then share data in-house, across their value chain, or within their customer base in a cohesive manner, regardless of the system in use.

DVS is available through the SMARTEAM - Development Suite Configuration only.

**Prerequisite IBM Software:** SMARTEAM - Foundation

### **SMARTEAM - Development Suite Configuration**

**5691-SDV**

SMARTEAM - Development Suite Configuration (SDV) provides additional APIs for accessing ENOVIA SmarTeam via customized Web applications. Allows creation and reading of iXF packages.

**Included Software:** SMARTEAM - Foundation, SMARTEAM - Editor, SMARTEAM - Development Suite

### **SMARTEAM - Editor**

**5691-EDR**

SMARTEAM - Editor (EDR) is the core of the SMARTEAM product suite. It provides business collaboration solutions that enable enterprises to share, exchange, view, and manage product information from concept through obsolescence. EDR is complemented by a full application suite and best practices, including integrations to leading CAD and enterprise applications, workflow and change management, bill of materials (BOM) management, multi-site support and more. In combination with other products in the SMARTEAM suite, EDR provides a uniquely cost-effective and rapidly implemented collaborative Product Lifecycle Management (PLM) solution.

EDR is available through the SMARTEAM - Editor Configuration only.

**Prerequisite IBM Software:** SMARTEAM - Foundation

### **SMARTEAM - Editor Configuration**

**5691-SED**

SMARTEAM - Editor Configuration (SED) provides the core functionality of ENOVIA SmarTeam's collaborative PLM system. It consists of the SmarTeam-Foundation and SmarTeam-Editor products.

**Included Software:** SMARTEAM - Foundation, SMARTEAM - Editor

### **SMARTEAM - FDA Compliance**

**5691-FDA**

SMARTEAM - FDA Compliance (FDA) provides companies with the tools needed to comply with the requirements of US Food and Drug Administration (FDA) Regulation 21CFR part 11 for electronic records and signatures. Implementing this product involves defining an organization's specific procedures and needs in order to develop an FDA compliance procedure tailored to the organization.

**Prerequisite IBM Software:** SMARTEAM - Foundation, SMARTEAM - Editor, SMARTEAM - Workflow

### **SMARTEAM - FDA Compliance Configuration**

**5691-SFA**

SMARTEAM - FDA Compliance Configuration (SFA), collaborative product data management (CPDM) solution is specifically designed for medical device, pharmaceutical and biotechnology manufacturers. It provides the technical control required to support the US Food and Drug Administration's 21 CFR Part 11 regulation, including standardized control over the management of electronic records of the entire product development process, without any need for customization. It provides all required components of 21 CFR Part 11, including enhanced User Authentication procedures, audit trail records of changes, electronic signature support, following a workflow process, and query mechanism retrieving audit trail information.

**Included Software:** SMARTEAM - Foundation, SMARTEAM - Editor, SMARTEAM - Workflow, SMARTEAM - FDA Compliance

### **SMARTEAM - Foundation**

**5691-FDN**

SMARTEAM - Foundation (FDN) is a complete enterprise product information collaboration platform that enables teams across the extended enterprise to collaborate on product data in a concurrent engineering environment. It delivers complete organizational collaboration across all enterprise applications and is configured for optimal use of a company IT infrastructure. FDN provides secure, real-time access to product data for authorized users from virtually anywhere on the globe.

FDN is required for each SMARTEAM user and is included in all SMARTEAM configuration packages.

**Included Software:** IBM DB2 Workgroup Server Edition, IBM DB2 Express Edition

### **SMARTEAM - Gateway**

**5691-GWY**

SMARTEAM - Gateway (GWY) provides bi-directional data exchange between SMARTEAM and multiple enterprise applications, bringing the benefits of revision management, change control, and collaboration to global enterprises. GWY reduces the product development cycle by connecting the company's design data to its various enterprise applications. GWY currently supports Microsoft BizTalk and WebSphere Business Integrator.

GWY is available through the SMARTEAM - Gateway Configuration only.

### **SMARTEAM - Gateway Configuration**

**5691-SGA**

SMARTEAM - Gateway Configuration (SGA) provides a gateway to a wide range of enterprise and legacy applications, such as ERP, PDM, CRM, and SCM systems, through standard EAI platforms. SGA is a server configuration.

**Included Software:** SMARTEAM - Foundation, SMARTEAM - Editor, SMARTEAM - Gateway

### **SMARTEAM - IN Integration**

**5691-INI,5693-INI**

SMARTEAM - IN Integration (INI), a product certified by Autodesk Inventor, is the SMARTEAM integration for the Autodesk Inventor environment. INI enables anyone using Autodesk Inventor to work within their design environment and perform typical product data management (PDM) functions such as advanced searches, and quick previews of documents without opening the application that created them, easy where-used retrieval, revision control, and product life cycle operations (check in, check out, release and obsolete). INI leverages your ability to share information effectively, so you can better control the design and maintenance of documentation and drawings, and to improve the data flow within your organization.

**Prerequisite IBM Software:** SMARTEAM - Foundation, SMARTEAM - Editor

### **SMARTEAM - MD Integration**

**5691-MDI,5693-MDI**

SMARTEAM - MD Integration (MDI) integrates SMARTEAM within the Autodesk Mechanical Desktop (MDT) environment. MDI supports the in-process methodology from within Mechanical Desktop for managing vast amounts of documents and drawings.

MDI lets you manage, create, edit and annotate Mechanical Desktop (MDT) designs and other related documents, including Microsoft Office documents. Eliminating the need to re-key data and work on outdated designs, MDI dramatically reduces errors and saves time. Whether searching for the latest document, ensuring revision accuracy, or quickly previewing a document, MDI offers substantial design efficiencies.

**Prerequisite IBM Software:** SMARTEAM - Foundation, SMARTEAM - Editor

### **SMARTEAM - MI Integration**

**5691-MII,5693-MII**

SMARTEAM - MI Integration (MII) is the SMARTEAM integration for the Bentley MicroStation environment. MII supports the in-process methodology enabling anyone using MicroStation to manage vast amounts of documents and drawings directly from the MicroStation environment. MII eliminates both the need to re-key data and work on outdated designs, dramatically reducing errors and saving valuable time.

**Prerequisite IBM Software:** SMARTEAM - Foundation, SMARTEAM - Editor

### **SMARTEAM - Multi-site**

**5691-MUS**

SMARTEAM - Multi-site (MUS) is an asynchronous replication solution for a distributed environment, enabling full data sharing and product life-cycle collaboration among dispersed team members at different company locations.

MUS is available through the SMARTEAM - Multi-site Configuration only.

**Prerequisite IBM Software:** SMARTEAM - Foundation, SMARTEAM - Editor

### **SMARTEAM - Multi-Site Configuration**

**5691-SMA**

SMARTEAM - Multi-Site Configuration (SMA) offers database and vault replication capabilities to multi-site enterprises.

**Included Software:** SMARTEAM - Foundation, SMARTEAM - Editor

### **SMARTEAM - Navigator**

**5691-NVR**

SMARTEAM - Navigator (NVR) utilizes standard Web technologies to provide remote individuals and teams with comprehensive access to central ENOVIA SmarTeam database and managed files, from standard Internet browsers, enabling users to access product data easily in a dynamic and secure environment from anywhere. NVR is available through the SMARTEAM - Navigator Configuration only.

**Prerequisite IBM Software:** SMARTEAM - Foundation

### **SMARTEAM - Navigator Configuration**

**5691-SNV**

SMARTEAM - Navigator Configuration (SNV) enables enterprise users who are not required to modify data and files, to securely search, browse, and view engineering and Microsoft Office-type documents.

**Included Software:** SMARTEAM - Foundation, SMARTEAM - Navigator

### **SMARTEAM - P Integration**

**5691-PEI,5693-PEI**

SMARTEAM - P Integration (PEI) is the SMARTEAM integration for the Pro/Engineer environment. PEI supports the in-process methodology enabling anyone using Pro/Engineer to manage vast amounts of documents and drawings directly from the Pro/Engineer environment. PEI provides easy management, creation, editing and annotation of Pro/Engineer parts, drawings, assemblies, and other related documents. PEI dramatically reduces errors and saves valuable time. Whether searching for the latest document, ensuring revision accuracy, or quickly previewing a document, PEI produces substantial design efficiencies. It eliminates both the need to re-key data and inefficient work on outdated designs. In the enterprise, PEI gives access and view capabilities to Pro/Engineer data, without requiring knowledge of Pro/Engineer or Pro/Intralink.

**Prerequisite IBM Software:** SMARTEAM - Foundation, SMARTEAM - Editor

### **SMARTEAM - Program Management**

**5691-PGM**

SMARTEAM – Program Management (PGM) is an out-of-the box, yet customizable, full-featured, multi-platform collaborative program management solution. It enables the storage and management of the vast amount of program-related information, including multiple projects, timelines, tasks, deliverables and resources, and tightly connects them to product and process-related knowledge, such as Workflow processes, Documents and Bills of Material. It provides dispersed users throughout the extended Enterprise and across the value chain with a single, unified environment to easily, efficiently, and securely manage and share these elements in real-time through intuitive, role-based user interface, eliminating error-prone manual data entries, and decreasing costs and time-to-market.

This product integrates with Microsoft Project. Integration with other leading project planning tools can be customized through services.

**Prerequisite IBM Software:** SMARTEAM - Foundation, SMARTEAM - Web Editor

### **SMARTEAM - Program Management Configuration**

**5691-SPG**

SMARTEAM - Program Management Configuration (SPG) provides a full-feature, out-of-the-box, customizable Web-based collaborative program management solution. It enables the storage and management of the vast amount of program-related information, including multiple projects, timelines, tasks, deliverables and resources, and tightly connects them to product and process-related knowledge, such as Documents and BOMs. SPG provides dispersed users throughout the extended Enterprise with a single, unified environment to easily, efficiently, and securely manage and share these elements in real-time through an intuitive, role-based user interface. This eliminates error-prone manual data entries, and decreasing costs and time-to-market. SPG integrates with Microsoft Project. Integration with other leading planning tools can be customized through services.

**Included Software:** SMARTEAM - Foundation, SMARTEAM - Web Editor, SMARTEAM - Workflow, SMARTEAM - Program Management

### **SMARTEAM - SE Integration**

**5691-SEI,5693-SEI**

SMARTEAM - SE Integration (SEI), an ESD Solid Edge Voyager Program Certified Select Product, is the SMARTEAM integration for the Solid Edge environment. SEI supports an in-process methodology that enables Solid Edge engineers to manage documents, drawings, and models directly from Solid Edge. SEI eliminates the need to re-key data and eliminates inefficient work on outdated designs, dramatically reducing errors and saving valuable time. SMARTEAM creates a true multi-CAD environment, enabling Solid Edge users to deploy additional CAD Integrations on their desktop. Likewise, SMARTEAM enables the enterprise to manage all CAD and related product data from a single collaborative Product Data Management (PDM) system, providing a common collaborative platform among diverse engineering teams.

**Prerequisite IBM Software:** SMARTEAM - Foundation, SMARTEAM - Editor

### **SMARTEAM - Web Editor**

**5691-WED**

SMARTEAM - Web Editor (WED) enables secure product lifecycle collaboration through the SMARTEAM database from standard Internet browsers. WED exploits standard Web technologies to provide remote individuals and teams with comprehensive access to the central SMARTEAM database and managed files from standard Internet browsers, enabling you to manipulate product data easily in a dynamic and secure environment from anywhere. WED allows you to perform advanced searches and view documents without actually downloading them, using powerful Java streaming technology. It allows remote users to create, edit, view, control, and annotate engineering and Microsoft Office documents, while performing lifecycle operations, enabling them to modify, track and manage multiple documents revisions. Regardless of geographical location, design team members can have full access to corporate information, contribute to product development and, combined with SMARTEAM - Workflow (WFL), initiate and participate in workflow processes at any time.

**Prerequisite IBM Software:** SMARTEAM - Foundation

### **SMARTEAM - Web Editor Configuration**

**5691-SWE**

SMARTEAM - Web Editor Configuration (SWE) provides remote enterprise users with secure, comprehensive life-cycle control over ENOVIA SmarTeam managed files and information.

**Included Software:** SMARTEAM - Foundation, SMARTEAM - Web Editor

### **SMARTEAM - Workflow**

**5691-WFL**

SMARTEAM - Workflow (WFL) provides workflow automation and management that streamlines your business processes and expedites engineering changes. WFL enables you to manage project workflow, track project status, and automatically route work from one stage to the next. You can initiate a workflow by choosing from a list of pre-defined engineering change processes (ECP/ECR/ECN/ ECO) or easily custom-define additional workflow processes. WFL supports embedded flowcharts, for the simplified representation and automation of complex business processes. An alert mechanism notifies managers of past-due processes, prompting them to send reminders to the relevant parties. WFL supports national language support (NLS), enabling process representation in most languages.

**Prerequisite IBM Software:** SMARTEAM - Foundation, SMARTEAM - Editor