

ENOVIA SmarTeam V5 Product Portfolio

World-class product lifecycle collaboration



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ENOVIA® SmarTeam, an IBM and Dassault Systèmes Product Lifecycle Management (PLM) offering, provides rapidly implemented, scalable and easily customised world-class collaborative product data management solutions that bring competitive advantage to small and medium-sized enterprises (SME), and engineering departments of large enterprises.

ENOVIA SmarTeam flexibly integrates product knowledge and business processes throughout the product lifecycle, driving secure product data management and collaborative benefits across teams, departments and sites, and with customers, suppliers and other value chain partners.

A market leader since 1995, ENOVIA SmarTeam helps organisations leverage their proprietary knowledge to speed time-to-market, reduce costs, promote quality and standards compliance, and maximise product innovation and market responsiveness. It is a catalyst to optimising core processes, addressing global challenges and helping promote customer satisfaction.

ENOVIA SmarTeam creates collaborative synergy at several levels:

- **Design** – Provides best-in-class integration of CATIA® V5, multi-CAD, ECAD, office-type and other data, retaining all logic and dependencies. Advanced search, design copy, visualisation and markup across 450 formats, seamless digital mockup and intuitive data management optimise daily work. A powerful CATIA V5 reconciliation tool promotes supply chain collaboration.
- **Engineering** – Automates, standardises and accelerates change management and other processes, including with supplier partners, through configurable, dynamic workflows, project data integrated across community portals, and powerful item lifecycle management that drives data and processes at the item level, with all organisational logic applied. Automated 'design-to-configure' BOM delivery enables earliest-possible synergy across disciplines, even beyond engineering.



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- **Enterprise** – Extends access to product knowledge and standardised processes to enterprise users, including via a friendly Web-based environment. Gateway connectivity, including via Enterprise Application Interface (EAI) middleware, delivers collaborative benefits across enterprise systems.

ENOVIA SmarTeam offers differentiating value through:

- Rapid value, pre-configured, out-of-the-box packages
- Best-in-class CATIA V5 and multi-CAD integration
- Robust, scalable, BOM-centric cPDM
- Open, flexible, easy to maintain solutions, on a Microsoft® platform
- Delivered locally by world-class IBM partners/DS resellers.

ENOVIA SmarTeam's robust, distributed architecture offers a unified collaborative environment to an organisation's multiple sites. An ergonomically advanced Web platform and secure community portals further extend knowledge-sharing across product stakeholders. Exceptional, standards-based openness, built-in administration and customisation tools, and an infrastructure based on advanced Microsoft technologies offer low-cost maintenance. ENOVIA SmarTeam integrates with other business systems, promoting synchronisation with manufacturing and other benefits.

An ENOVIA brand offering, ENOVIA SmarTeam provides unmatched compatibility with the rest of the Dassault Systèmes PLM portfolio (CATIA, DELMIA, SIMULIA, ENOVIA VPLM and ENOVIA MatrixOne).

Packaged for rapid value

ENOVIA SmarTeam offers out-of-the-box Express packages that jump-start collaborative design and engineering in just days, and create a solid PLM foundation ready for growth at any time. It uniquely scales from basic document management to full collaborative Product Data Management on the same technology platform. Pre-defined, tailorable business solutions help ENOVIA SmarTeam customers achieve rapid bottom-line results.

PLM is becoming a strategic business tool to survival and success. Let ENOVIA SmarTeam be your answer to optimised product data and process management, and extended enterprise collaboration.

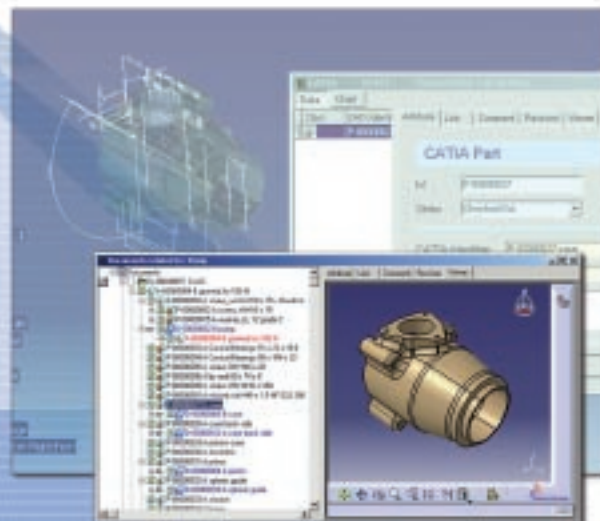
ENOVIA SmarTeam Product Groupings

The ENOVIA SmarTeam product portfolio is grouped functionally as follows:

- **Collaboration Dashboards** – Allow dispersed product teams and value chain partners to manage, view and exchange product data from a Microsoft Windows® or Web-based interface.
- **Business Solutions** – Provide sets of predefined work processes tailored to specific industry areas or business needs.
- **User Services** – Deliver a range of functional capabilities that extend solution scope beyond basic product data management.
- **Integrations** – Provide and extensive, embedded, certified multi-CAD integration offering. Other CAD integrations are available through partners. ENOVIA SmarTeam also integrates with business tools such as Microsoft Office.
- **Enterprise Services** – Extend the collaborative environment across sites and enterprise applications, and provide tools for flexible solution tailoring and extensibility.

SmarTeam Design Express

Rapid-value Express offerings deliver optimised collaborative design and engineering, with a solid PLM foundation methodology for future scaling



Companion Products

The ENOVIA SmarTeam product portfolio is supplemented by companion teaching products that provide an easy-to-use, one-source learning and support system for understanding how to leverage ENOVIA SmarTeam's capabilities, maximising productivity for the user community.

SMARTEAM – User Companion Fundamentals (SUS)

This product provides the core skills for engaging in PLM. It teaches users how to efficiently store, retrieve and manage product-related information, and share it throughout the extended enterprise. Users learn how to initiate and drive business processes throughout the product lifecycle.

The course starts with a building block dedicated to PLM concepts and the SMARTEAM foundation. A second building block provides two parallel paths: one for a Web environment, using SMARTEAM – Web Editor, and one for Windows, using SMARTEAM – Editor. Both paths include the Workflow product.

SMARTEAM – User Companion for CATIA Integration (CIS)

This product teaches users to create product-related information while using digital mock-up and workbench tools with CATIA V5 data. Developed to enable CATIA designers to take full benefit of the embedded PLM environment delivered by ENOVIA SmarTeam, it applies existing user knowledge of CATIA V5 Fundamentals to collaborative design in ENOVIA SmarTeam.

The course gradually takes the user from a basic to expert level. It covers advanced capabilities, such as relational design and concurrent engineering, and builds an understanding of how to make the most of ENOVIA SmarTeam's collaborative environment infrastructure. The user should already be familiar with SMARTEAM – Fundamentals (SUS) and CATIA Mechanical Design (MDS) companion products.



SMARTEAM – User Companion Fundamentals (SUS)



SMARTEAM – User Companion for CATIA Integration (CIS)

Collaboration Dashboard Products

SMARTEAM – Editor (EDR)

This product is the core, Windows-based PLM application of the ENOVIA SmarTeam product suite, enabling enterprises to share, exchange, view, and manage product information from concept through retirement. SMARTEAM – Editor combines with a full suite of applications and best practices to provide robust collaborative solutions.

SMARTEAM – Editor manages diverse data types and resources, including CAD drawings and assemblies, Bills of Material (BOM), and office-type documents, such as Microsoft Word, Excel and more. With SMARTEAM – Foundation, it provides data security, file and metadata storage, advanced searching, and customisation and administration tools for a tight solution fit. Embedded visualisation and advanced markup for over 450 file formats optimises hands-on collaboration in a pluralistic environment.

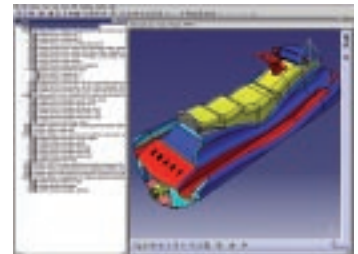
Configurable, dynamic, business rules-compliant workflows are available across all modules, for local, remote and supply chain scenarios. ENOVIA SmarTeam's breakthrough 'Design-to-Configure' offering (with SMARTEAM – BOM), also available from within the multi-CAD integrations, drives earliest-possible Bills of Material delivery across engineering, significantly enhancing collaborative engineering scenarios.

SMARTEAM – Web Editor (WED)

This product enables secure, Web-based product lifecycle management and collaboration from a standard Internet browser. SMARTEAM – Web Editor enables company and authorised external users to manipulate product data locally or remotely, across platforms, in a dynamic environment. An ergonomically advanced user interface, with cockpits, icons and flexible object browsing, optimises the user experience.

Whether working within the corporate Local Area Network (LAN), or over the Wide Area Network (WAN), users can create and manipulate product-related documents, while managing revisions. They can perform full text searches for quick data retrieval, and view and annotate documents without actually downloading them, thus saving time and IT resources.

The robust Web environment lets design team members contribute to product development from anywhere. Users can initiate and participate in workflow processes (through SMARTEAM – Workflow), track project-related data (through SMARTEAM – Program Management) and even open and modify files in their native application.



SMARTEAM – Editor (EDR)



SMARTEAM – Web Editor (WED)

SMARTEAM – Navigator (NVR)

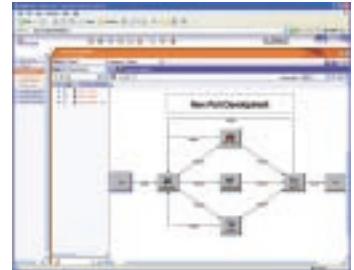
This product enables secure, collaborative PLM viewing through read-only access to the ENOVIA SmarTeam database from a standard Internet browser. SMARTEAM – Navigator promotes collaboration and enhances decision-making by letting different kinds of company users, including non-engineers, view and monitor the product development process locally or remotely, across multiple platforms. An ergonomically advanced user interface, with cockpits, icons and flexible browsing, optimises the user experience.

SMARTEAM – Navigator supports work within the enterprise on the corporate LAN or at remote, beyond-the-firewall locations on a WAN. Users can access, search and view diverse types of engineering, office-type documents and other corporate data, and participate in workflow processes (through SMARTEAM – Workflow).

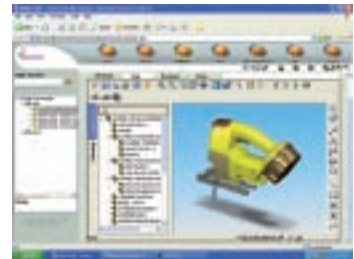
SMARTEAM – Community Workspace (CMT)

This product is a Web-based, project-oriented portal that enables global product teams to collaborate and manage product information easily, securely, and cost-effectively. Within unique Web portals, virtual product development communities – after passing through rigorous authorisation – collaborate on a defined set of data from within the ENOVIA SmarTeam database. Workflow participation is available through the SMARTEAM – Workflow product.

By enabling online collaboration, SMARTEAM – Community Workspace brings e-business capabilities to the extended enterprise and supply chain, helping companies optimise product development processes with maximum flexibility.



SMARTEAM – Navigator (NVR)



SMARTEAM – Community Workspace (CMT)

Business Solution Products

SMARTTEAM – Program Management (PGM)

This product is a full-featured, out-of-the box, yet customisable, platform-independent solution for collaborative program management. It enables enterprises to store and manage vast amounts of program-related information, including multiple projects, timelines, tasks, deliverables and resources, and tightly connect this data to product and process-related knowledge, such as workflow processes, documents and bills of material (BOM).

SMARTTEAM – Program Management unites the management of project and product data in a single environment, enabling collaboration on multiple projects concurrently. Enterprise users can efficiently and securely manage and share program-related elements in real-time. Highly intuitive, role-based cockpits for project managers help eliminate errors typical of manual data entry, and decrease costs and time-to-market. SMARTTEAM – Program Management embeds a two-way integration with Microsoft Project. Integrations with other leading project planning tools can be customised through services.

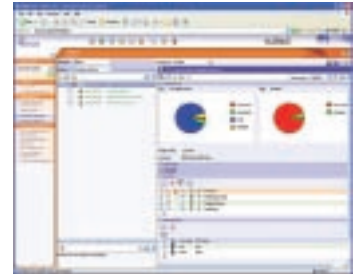
SMARTTEAM – Program Management optimises resource management by storing and managing all resources (such as users) in ENOVIA SmarTeam, and enabling their use across multiple projects. Authorised project managers can assign users to different roles across various projects. It facilitates the rapid launch of new projects through the reuse of existing project structures, and/or their project templates and associated tasks, resources, deliverables, document templates, flow processes and assigned roles. Executives get quick, up-to-date, high-level views of cross-project information, including project status, enhancing decision-making. A pre-defined, configurable system of Notifications and Alerts further enhances project execution, enabling users to take early preventive actions as needed.

SMARTEAM – FDA Compliance (FDA)

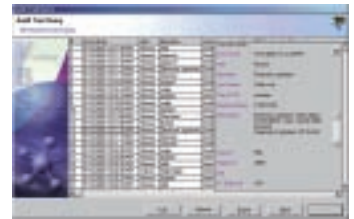
This product provides a rapidly implementable best practice business solution that serves as the backbone for meeting regulatory compliance needs. It ensures secure, standardised control over the management and tracking of all electronic records involved in the product development process, including electronic signatures.

The product allows for automated and standardised workflow processes that adhere to a required sequence and, if necessary, are driven from one stage to the next by electronic signatures embedded in process templates. It supports rigorous user authentication procedures, including automatic mail notifications advising administrators of failed logins; an audit trail of activities and changes in the system; and a configurable query mechanism for retrieving audit trail information.

The product provides key capabilities for accelerating, supporting, and maintaining compliance with governmental, industry, environmental and other regulatory standards, including those of the US Food and Drug Administration (FDA) and Current Good Manufacturing Practice (cGMP).



SMARTEAM – Program Management (PGM)



Regulatory Compliance (FDA)

User Service Products

SMARTEAM – Workflow (WFL)

This product is a workflow automation and change management solution that streamlines business processes and expedites engineering changes by linking people, information and processes. It automates the delivery of information across the extended enterprise (such as within a workgroup, across departments and to field personnel) and supply chain (such as with customers, suppliers and the sales channel).

SMARTEAM – Workflow lets users initiate, track, and monitor processes. Work is automatically routed from one stage to the next, while information about the status of the work, users and tasks is instantly available. Projects move faster toward completion, reducing the time required to execute the engineering change process and other standard authorisation and implementation procedures.

Users can choose from a pre-defined list of engineering change processes, or custom-define others. Intuitive tools help users manage project workflow, track project status, receive alerts and proliferate process information.

SMARTEAM – BOM (BOM)

This product enables companies to manage the product structure with exceptional flexibility, standardising delivery of product knowledge across disciplines within and beyond engineering.

ENOVIA SmarTeam provides full control over an item's engineering state while integrating all business logic and lifecycle behaviors, enabling PLM solutions based on item management. Transitioning from document-centric to item-centric management of all product data and processes brings enormous business value to an organisation.

Highly flexible 'design-to-configure' capabilities, including from within ENOVIA SmarTeam's CAD integrations, create and update engineering Bills of Materials by lifecycle stage (such as 'designed-to-order' and 'built-to-order'), streamlining concurrent engineering and reducing errors. A pre-configured tool lets users compare document and item trees, revealing the impact of a design change on BOM items.

ENOVIA SmarTeam further optimises BOM collaboration and management through advanced filtering, multiple and single views, generic copying of object structures and tracking of changes. A features-rich editing tool facilitates the user experience, as does an innovative whiteboard device that allows offline work without affecting the product structure. A 'Briefcase' tool enables BOM exchange via e-mail, FTP and the Web, with redlining, tracked changes, and optional editing. BOM users can reconcile the exchanged data.

SMARTEAM – CATIA Supply Chain Engineering Exchange (SEE)

This product provides differentiating value to ENOVIA SmarTeam customers by accelerating supply chain collaboration around the exchange of CATIA V5 relational data. SEE provides an authentic, lifecycle-managed CATIA V5 compare and reconciliation process that maintains data integrity and links consistency, even when the collaborating partner has a different environment (e.g. ENOVIA SmarTeam, ENOVIA VPLM, or any other PDM system).

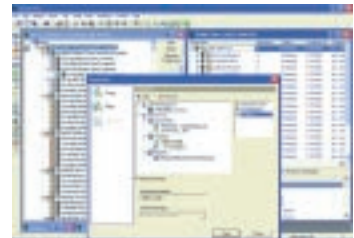
Available to SMARTEAM – CATIA Integration users, SEE allows the design engineer to visualise and perform a 3D comparison of a set or subset of CATIA documents received, and select and reconcile the preferred documents among the existing ENOVIA SmarTeam-managed CATIA V5 data. SEE manages the process while adhering to CATIA V5 relational design associativity rules.

SEE adds further benefits through report generation and printing, predefined rules for queries, identification and reconciliation, and batch requests. It offers native reconciliation of ENOVIA VPLM V5 (or STEP) documents, especially CATProduct.

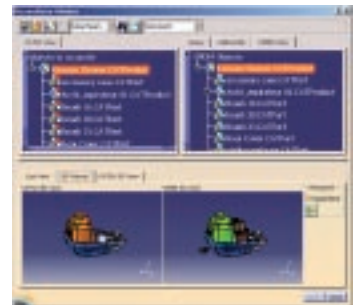
SMARTEAM – CATIA Supply Chain Engineering Exchange addresses daily supply chain interaction pains, improving decision-making, eliminating errors, saving time and helping companies maximise productivity with value chain partners.



SMARTEAM – Workflow (WFL)



SMARTEAM – BOM (BOM)



SMARTEAM – CATIA Supply Chain Engineering Exchange (SEE)

CAD Integration Products

ENOVIA SmarTeam creates a true multi-CAD environment, enabling the enterprise to integrate and manage all CAD and related product data from a single system while embedding world-class PLM benefits within different CAD applications. CAD users working in their native environments leverage ENOVIA SmarTeam's powerful collaborative backbone to access, manage and share engineering data.

Breakthrough ENOVIA SmarTeam 'Design-to-configure' capabilities available within each CAD integration deliver design data as early as possible across disciplines, streamlining collaborative engineering scenarios and cycles.

ENOVIA SmarTeam enables CAD users to efficiently create, edit and annotate design and related documents, including office-type. Powerful search, 'where used' retrieval and product lifecycle operations enhance work and design reuse across diverse teams. ENOVIA SmarTeam maps design properties to the repository, eliminating re-keying. Ongoing version control ensures that users know they are working with the latest data.

Engineering teams can collaborate on product structures, with dependencies intact, and perform concurrent engineering on different parts of the same assembly. Non-CAD users can view ENOVIA SmarTeam-managed design content for better understanding of the product, and participate in review processes via redlining, markup and other activities.

ENOVIA SmarTeam's CAD integrations are described on the following pages. Additional integrations (UG, Ideas,...) are available through partner vendors.

SMARTTEAM – CATIA Integration (CAI)

This best-in-class integration, developed by Dassault Systemes, embeds ENOVIA SmarTeam within the native CATIA V5 and V5 DMU environments. The easy-to-use integration lets users create, edit and annotate design and other documents, and manage the data using embedded ENOVIA SmarTeam menus, icons and tree structures. It seamlessly integrates the Dassault Systèmes 3D PLM viewer, providing native CATIA V5 visualisation.

ENOVIA SmarTeam delivers rapid-value CATIA V5 design collaboration through out-of-the-box Express packages that deploy in just days and provide a solid foundation for easy solution scaling at any time.

CAI creates automatic, bi-directional attribute mapping and link dependencies during lifecycle operations, helping users easily manage complex product structures, including component parts, designs and documents, and rapidly access files and related data. Compatibility with the CATIA 64-bit environment lets users leverage their system's greater processing power to manage large assemblies easily.

Seamless integration with CATIA's impact analysis capabilities further maximises decision support, helping users assess how a change will affect dependencies. CAI manages CATIA files from different releases, enabling collaboration with OEMs and others using different CATIA versions.

CAI users can benefit from seamless V5 digital mock-up (DMU) review processes. From within CAI, users can open the V5 DMU window, retrieve the needed CATIA V5 data, perform DMU tasks (such as mockup or validation), and store and manage the results.

SMARTTEAM – CATIA Web Integration (CWI)

This product enables collaborative product lifecycle management from a standard Internet browser for users of CATIA V5 and/or V5 DMU in a Windows environment. CWI lets these users, including authorised suppliers, manage CATIA V5 data and V5 digital mock-up processes in a dynamic, thin-client environment.

The ergonomically advanced user interface, with cockpits, icons and flexible object browsing, optimises the user experience.

Whether on the corporate Local Area Network (LAN) or via a Wide Area Network (WAN), CWI users easily access, view, create, and manage CATIA V5 data and related product information. Users can initiate and participate in workflow processes (through SMARTEAM – Workflow), and track project-related data (through SMARTEAM – Program Management).

CWI extends PLM deployment flexibility for CATIA V5 customers, offering fast, one-stop installation and upkeep, and supporting a company's strategy to expand use of Web architecture.

SMARTEAM – SE Integration (SEI)

This product, a Solid Edge Voyager Program Certified Select Product, brings the benefits of collaborative PLM to Solid Edge users, enabling work in the native Solid Edge environment while leveraging ENOVIA SmarTeam's collaborative backbone to access, manage and share engineering data.

As part of the powerful data management capabilities described at the beginning of this section, SMARTEAM – SE Integration maintains Solid Edge-specific links, including their direction to Solid Edge documents, and all references, ensuring ease of access and structural integrity throughout the ENOVIA SmarTeam database.

Users can apply lifecycle behaviors – such as lifecycle operation rules to links to models and corresponding drawings – for accurate capturing of true design intent.

SMARTEAM – AC Integration (ACI)

This product brings the benefits of collaborative PLM to AutoCAD users, enabling work in the native AutoCAD environment while leveraging ENOVIA SmarTeam's collaborative backbone to access, manage and share engineering data. SmarTeam Corporation is an authorised Autodesk developer.

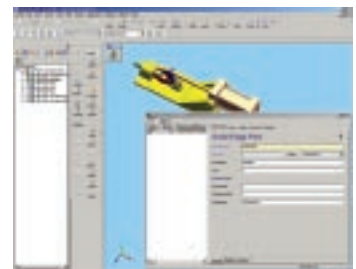
As part of the powerful data management capabilities described at the beginning of this section, SMARTEAM – AC Integration maintains AutoCAD-specific links, such as Xrefs and Xref Overlays, their direction to AutoCAD documents, and all references, ensuring ease of access and structural integrity throughout the ENOVIA SmarTeam database. Users can apply lifecycle behaviors to specific link types, for accurate capturing of true design intent.



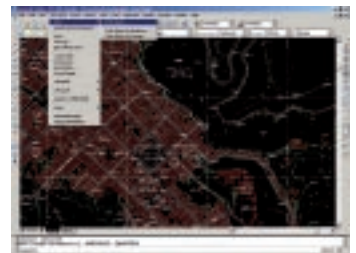
CATIA V5 Integration (CAI)



CATIA Web Integration (CWI)



Solid Edge Integration (SEI)



AutoCAD Integration (ACI)

SMARTEAM – MD Integration (MDI)

This product brings the benefits of collaborative PLM to Mechanical Desktop (MDT) users, enabling work in the native Autodesk MDT environment while leveraging ENOVIA SmarTeam's collaborative backbone to access, manage and share engineering data. SmarTeam Corporation is an authorised Autodesk developer.

As part of the powerful data management capabilities described at the beginning of this section, SMARTEAM – MD Integration synchronises component attributes between ENOVIA SmarTeam and MDT BOM tables. This serves to maintain Bill of Materials information and parts lists, ensuring that the shop floor receives accurate, timely information. SMARTEAM – MD Integration also maintains two-directional links between MDT documents, and all references, ensuring ease of access and structural integrity throughout the ENOVIA SmarTeam database. Users can apply lifecycle behaviors to specific link types, for accurate capturing of true design intent.

SMARTEAM – IN Integration (INI)

This Autodesk Inventor certified product brings the benefits of collaborative PLM to Inventor users, enabling work in the native Autodesk Inventor environment while leveraging ENOVIA SmarTeam's collaborative backbone to access, manage and share engineering data. SmarTeam Corporation was the first PLM vendor awarded Autodesk Manufacturing Applications Initiative certification, in recognition of design and engineering software development leadership.

As part of the powerful data management capabilities described at the beginning of this section, SMARTEAM – IN Integration maintains directional links between Inventor documents, and all references, ensuring ease of access and structural integrity throughout the ENOVIA SmarTeam database. Users can apply lifecycle behaviors – such as lifecycle operation rules to links to models and corresponding drawings – for accurate capturing of true design intent.

SMARTEAM – P Integration (PEI)

This product brings the benefits of collaborative PLM to Pro/ENGINEER users, enabling work in the native Pro/ENGINEER environment while leveraging ENOVIA SmarTeam's collaborative backbone to access, manage and share engineering data.

As part of the powerful data management capabilities described at the beginning of this section, SMARTEAM – P Integration maintains Pro/ENGINEER-specific directional links between Pro/ENGINEER documents (such as 'Pro/E dependent of', 'Pro/E manufacturing of' and 'Pro/E Declared Layouts'), and all references, ensuring ease of access and structural integrity throughout the ENOVIA SmarTeam database. Users can apply lifecycle behaviours – such as lifecycle operation rules to links between assemblies and corresponding drawings – for accurate capturing of true design intent.

SMARTEAM – MI Integration (MII)

This product brings the benefits of collaborative PLM to MicroStation users, enabling work in the native Bentley MicroStation environment while leveraging ENOVIA SmarTeam's collaborative backbone to access, manage and share engineering data.

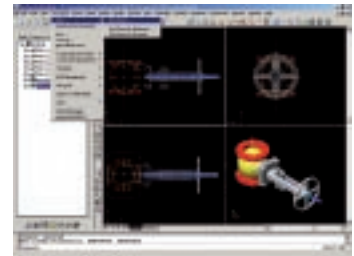
As part of the powerful data management capabilities described at the beginning of this section, SMARTEAM – MI Integration maintains all MicroStation references and reference files (such as parent-child relationships like 'Where Used' and 'Composed of') in the ENOVIA SmarTeam database, ensuring ease of access and composition integrity.

SMARTEAM – SolidWorks Integration (SWI)*

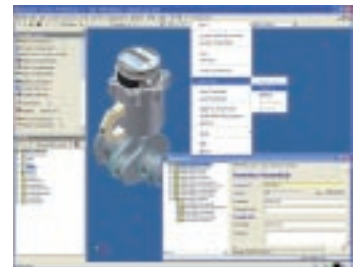
This product brings the benefits of collaborative PLM to SolidWorks users, enabling work in the native SolidWorks environment while leveraging ENOVIA SmarTeam's collaborative backbone to access, manage and share engineering data. SmarTeam Corporation is a SolidWorks Gold Level Partner.

As part of the powerful data management capabilities described at the beginning of this section, SMARTEAM – SolidWorks Integration maintains SolidWorks-specific links, their direction to SolidWorks documents (such as 'based-on,' 'derived-from' and 'in context') and all references. This high level of link management and control ensures ease of access and structural integrity throughout the ENOVIA SmarTeam database. Users can apply lifecycle behaviours – such as lifecycle operation rules to models and corresponding drawings – for accurate capturing of true design intent.

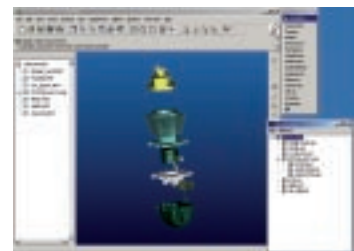
ENOVIA SmarTeam's integrated viewer embeds the latest viewing technologies of SolidWorks eDrawings. Users can publish eDrawings and link them to their parent SolidWorks documents, including drawings, parts and assemblies. This capability maintains the integrity of drawings distributed among team members and recipients of eDrawings.



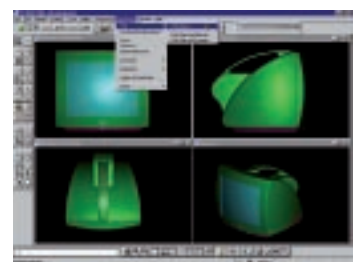
Mechanical Desktop Integration (MDI)



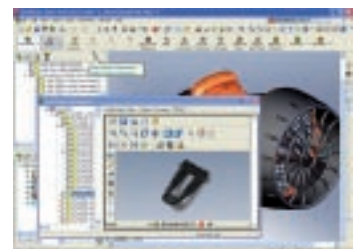
Inventor Integration (INI)



Pro/ENGINEER Integration (PEI)



MicroStation Integration (MII)



*SolidWorks Integration (SWI)**

* Note: This product has PRPQ status.

Enterprise Service Products

SMARTEAM – Foundation (FDN)

This product is an enterprise knowledge platform that enables the PLM capabilities delivered through SMARTEAM – Editor and the rest of the ENOVIA SmarTeam application and best practices suite. SMARTEAM – Foundation is configured for optimal use of an organisation's information technology infrastructure, enabling collaboration across all enterprise applications. Leveraging leading-edge technologies, SMARTEAM – Foundation offers a secure, open, flexible and scalable platform that accommodates an enterprise's growing need to control and share vast amounts of product information.

SMARTEAM – Foundation gives authorised users real-time access to product data, from virtually anywhere. The ENOVIA SmarTeam repository ensures data integrity. All ENOVIA SmarTeam products support authentication of users against an LDAP server (such as Windows Active Directory, IBM Directory Server and others).

SMARTEAM – Multi-site (MUS)

SMARTEAM – Multi-site is an asynchronous replication solution for a distributed environment, enabling full data sharing and product lifecycle collaboration among dispersed team members at different company locations. It overcomes typical replication challenges by uniquely combining asynchronous local replication and periodic synchronisation, providing data integrity, independence and high performance across sites:

- *Users at different locations access the same database, share the same resources and files, and work on mutual projects*
- *The data is identical for all users, with all modifications propagated to all sites*
- *Users work simultaneously yet independently – work continues regardless of the network connection between sites.*

In today's globally dispersed business community, SMARTEAM – Multi-site is a key competitive tool, letting businesses leverage their state-of-the-art PLM system to operate more efficiently and improve productivity.



SMARTEAM – Multi-site (MUS)

SMARTEAM – Gateway (GWY)

This product serves as an interoperable backbone that seamlessly integrates vital enterprise systems, applications and technologies, delivering product content across IT assets. By exposing the ENOVIA SmarTeam repository to enterprise applications and supporting triggers for bi-directional data exchange, GWY enables businesses to share and exchange the latest parts, Bills of Material, documents and other product information across design logistics, customer service, and other business systems. It further enables customised integration of processes, including change management, and complex engineering scenarios.

ENOVIA SmarTeam enterprise integration solutions are built using the SMARTEAM – Gateway API, Enterprise Application Integration (EAI) middleware and adapters. ENOVIA SmarTeam integrates with: IBM WebSphere Business Integration (WBI) Express, IBM WBI Enterprise Server and Microsoft BizTalk Server. Customers can choose from third-party adapter sets, including by iWay and others.

SMARTEAM – Development Suite (DVS)

This product provides tools for enhancing the SMARTEAM API and building ENOVIA SmarTeam-based Windows or Web applications, and new capabilities, such as:

- *Web portals with corporate look-and-feel*
- *Cross-platform integrations leveraging IT assets*
- *Remote interfaces to ENOVIA SmarTeam.*

Two software development kits (SDK) are available:

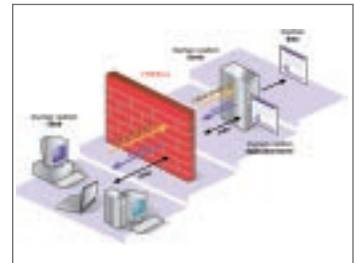
- ***i-Platform SDK*** – *For incorporating ENOVIA SmarTeam functionality in any enterprise system, streamlining business processes and enhancing applications.*
- ***SmartIXF SDK*** – *For sharing structured product data across systems in a standardised manner.*



SMARTEAM – Gateway (GWY)



Integrating to WBI



SMARTEAM – Development Suite (DVS)

ENOVIA SmarTeam Configurations

SMARTEAM Products		SMARTEAM Configurations											
		SMARTEAM – Community Workspace	SMARTEAM – Development Suite	SMARTEAM – Editor	SMARTEAM – Engineering	SMARTEAM – FDA Compliance	SMARTEAM – Gateway Administration	SMARTEAM – Multi-site Administration	SMARTEAM – Navigator	SMARTEAM – Program Management	SMARTEAM – Web Editor	CATIA Team PDM	CATIA Web Team PDM
		SCT	SDV	SED	SEG	SFA	SGA	SMA	SNV	SPG	SWE	TDM	TDW
Collaboration Dashboards													
CMT	SMARTEAM – Community Workspace	•											
EDR	SMARTEAM – Editor		•	•	•	•	•	•				•	
NVR	SMARTEAM – Navigator								•				
WED	SMARTEAM – Web Editor									•	•		•
Business Solutions													
FDA	SMARTEAM – FDA Compliance					•							
PGM	SMARTEAM – Program Management									•			
User Services													
BOM	SMARTEAM – BOM				•								
WFL	SMARTEAM – Workflow				•	•				•			
CAD Integrations													
CAI	SMARTEAM – CATIA Integration											•	
CWI	SMARTEAM – CATIA Web Integration												•
Enterprise Services													
DVS	SMARTEAM – Development Suite		•										
FDN	SMARTEAM – Foundation	•	•	•	•	•	•	•	•	•	•	•	•
GWY	SMARTEAM – Gateway						•						
MUS	SMARTEAM – Multi-site							•					

ENOVIA SmarTeam is packaged for easy building of the optimal solution according to usage profiles and process requirements. Predefined configurations lie at the heart of this model, providing product sets that target specific tasks or processes. SMARTEAM – Foundation (FDN) must be part of any ENOVIA SmarTeam Windows or Web solution. In addition, some products must be installed on top of others; pre-requisites are as follows:

- ACI, CAI, INI, MDI, MII, PEI, SEI and SWI require one of the configurations containing the SMARTEAM – Editor product (EDR)
- CWI requires one of the configurations containing the SMARTEAM – Web Editor product (WED)
- PGM requires the SWE configuration
- SEE requires the CAI product
- FDA requires one of the configurations containing the SMARTEAM – Editor (EDR) product and requires the SMARTEAM – Workflow (WFL) product
- GWY and MUS require a license for each server.

ENOVIA SmarTeam solutions run on IBM DB2, Oracle and Microsoft SQL Server (and ship with the IBM DB2 or Oracle database as part of the product package).

ENOVIA SmarTeam Add-on/Shareable Products

SMARTEAM Products		SMARTEAM Configurations											
		SMARTEAM – Community Workspace	SMARTEAM – Development Suite	SMARTEAM – Editor	SMARTEAM – Engineering	SMARTEAM – FDA Compliance	SMARTEAM – Gateway Administration	SMARTEAM – Multi-site Administration	SMARTEAM – Navigator	SMARTEAM – Program Management	SMARTEAM – Web Editor	CATIA Team PDM	CATIA Web Team PDM
		SCT	SDV	SED	SEG	SFA	SGA	SMA	SNV	SPG	SWE	TDM	TDW
Business Solutions													
FDA	SMARTEAM – FDA Compliance		S*	S*	S		S*	S*				S*	
PGM	SMARTEAM – Program Management										S		S
User Services													
BOM	SMARTEAM – BOM		S	S		S	S	S				S	
SEE	SMARTEAM – CATIA Supply Chain Engineering Exchange		S	S	S	S	S	S				S	
WFL	SMARTEAM – Workflow	S	S	S			S	S	S		S	S	S
CAD Integrations**													
ACI	SMARTEAM – AC Integration		A/S	A/S	A/S	A/S	A/S	A/S				A/S	
CAI	SMARTEAM – CATIA Integration		A/S	A/S	A/S	A/S	A/S	A/S					
CWI	SMARTEAM – CATIA Web Integration									A/S	A/S		
INI	SMARTEAM – IN Integration		A/S	A/S	A/S	A/S	A/S	A/S				A/S	
MDI	SMARTEAM – MD Integration		A/S	A/S	A/S	A/S	A/S	A/S				A/S	
MII	SMARTEAM – MI Integration		A/S	A/S	A/S	A/S	A/S	A/S				A/S	
PEI	SMARTEAM – P Integration		A/S	A/S	A/S	A/S	A/S	A/S				A/S	
SEI	SMARTEAM – SE Integration		A/S	A/S	A/S	A/S	A/S	A/S				A/S	

A = Add-on

S = Shareable

* With addition of Workflow

** ENOVIA SmarTeam offers a seamless integration to the most commonly used CAD systems.



For more information contact your IBM Representative,
IBM Business Partner, or visit the IBM PLM Web site at:

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