



## **ENOVIA SmarTeam**

# **SmarTeam V5R20 Product Enhancement Overview**

© Dassault Systèmes, 1997, 2010. All rights reserved.

CATIA, ENOVIA, SMARTEAM and the 3DS logo are registered trademarks of Dassault Systèmes or its subsidiaries in the US and/or other countries.

**PROPRIETARY RIGHTS NOTICE:** This documentation is the property of Dassault Systèmes. This documentation shall be treated as confidential information and may only be used by employees or contractors of the Customer in accordance with the terms of the End-User License Agreement accepted by Customer.

Any use of the Licensed Program contained in this media or accompanying it, is subject to the terms of the End User License Agreement accepted by Customer. The Licensed Program is protected by international copyright laws and international treaties. Unauthorized use, reproduction and/or distribution of any of the Licensed Program, or any part thereof, may result in severe civil and/or criminal penalties, and will be prosecuted to the maximum extent possible under the law. Company names and product names mentioned herein are the property of their respective owners and certain portions of the Licensed Program contain elements subject to copyright owned by these entities. See the Documentation CD provided with the Licensed Program for details and/or additional terms and conditions relating to these entities.

Part Number: GEN-A8-200010

## Table of Contents

<b>WHAT'S NEW .....</b>	<b>2</b>
ENOVIA SMARTEAM EXPRESS .....	2
3D LIVE SUPPORT .....	2
PACKAGING CHANGES .....	2
DEBUGGING TOOLS.....	3
<b>ENHANCEMENTS.....</b>	<b>4</b>
SMARTEAM – EDITOR.....	4
<i>Windows client (SmarTeam – Editor):</i> .....	4
<i>Web-based client (SmarTeam – Web Editor):</i> .....	4
SMARTEAM – NAVIGATOR.....	4
SMARTEAM – BOM.....	4
SMARTEAM – WORKFLOW.....	5
SMARTEAM – CATIA INTEGRATION .....	5
SMARTEAM – CATIA WEB INTEGRATION.....	7
SMARTEAM – CATIA SUPPLY CHAIN ENGINEERING EXCHANGE.....	7
SMARTEAM – SOLIDWORKS INTEGRATION.....	7
SMARTEAM – AUTOCAD INTEGRATION.....	8
SMARTEAM – INVENTOR INTEGRATION .....	8
SMARTEAM – SOLID EDGE INTEGRATION .....	8
SMARTEAM – MULTI-CAD INTEGRATION .....	8
SMARTEAM – PROGRAM MANAGEMENT.....	8
SMARTEAM – REGULATORY COMPLIANCE FRAMEWORK .....	9
SMARTEAM – FOUNDATION.....	9
SMARTEAM – MULTI-SITE .....	9
SMARTEAM – MULTI-SITE VAULT .....	9
SMARTEAM – DEVELOPMENT SUITE.....	9
SMARTEAM – JOB SERVER.....	9
SMARTEAM – GATEWAY .....	9
SMARTEAM – COMMUNITY WORKSPACE .....	9

## WHAT'S NEW

### ENOVIA SmarTeam Express

- ❑ V5R20 ENOVIA SmarTeam Express includes the following:
  - All existing SmarTeam customers can add SmarTeam Engineering Express (SNE) to their database, including SmarTeam Design Express (SDE) V5R16 and V5R17.
  - SmarTeam - Web Editor and Navigator are fully supported
  - SmarTeam - Multi-site and Multi-vault are fully supported
  - Regulatory Compliance Framework (RCF) is fully supported
- ❑ New features:
  - The PLM DB Supports the new V5R20 SmarTeam - SolidWorks Integration for SolidWorks 2009
  - Standard Reports
  - New general link for Item to Item relation
  - New Script function for Open Configuration View for selected Item
  - Profile Cards are now available in SmarTeam – Web Editor
  - Attachment Folders are now fully supported in SmarTeam – Web Editor
- ❑ New database creation will include all changes made for PLMDB\_R20
- ❑ A new document called “SmarTeam Express Configuration Guide” is now available on the ENOVIA SmarTeam Documentation CD. It is highly recommended to read this document before implementing ENOVIA SmarTeam Express.

### 3D Live Support

- ❑ Separate 3DLive license from Navigator license
- ❑ Supports Item and BOM Management
  - Support viewing 3D representation for Items that have more than one specification link
  - Support filtering Items Tree in 3D Live based on different configuration views (E-BOM, M-BOM, P-BOM, etc)

### Packaging Changes

- ❑ One DVD Installation
  - All ENOVIA SmarTeam CDs are now available on one DVD
  - ENOVIA SmarTeam installations will not block an Operating System install process, but prompt a message
- ❑ From V5R20, Oracle AutoVue Desktop and Web Versions are not part of SmarTeam Installation. Oracle AutoVue will continue to be certified with ENOVIA SmarTeam. In order to configure SmarTeam Viewer (Client and Web) please refer to SmarTeam Viewer Installation documentation.
- ❑ The SmarTeam Demo Database has changed from SmDemo to PLMDB

## Debugging Tools

- ❑ Tool Capabilities
  - Monitor SmarTeam applications in production environment
  - Minimize interaction between Customer, GTSC and R&D
  - Notify Administrator / End-user about critical problems
  - Performance measurements in production environment
  - Plug ability for customer to write his own scripts
  - Suitable for different releases - V5 R18, V5 R19, V5 R20, V6, etc..
- ❑ Diagnostic Agent
  - Windows service that should be installed on any machine executing SmarTeam application (client side)
- ❑ Diagnostic Center
  - Windows service that manage all agents on clients (server side)

## ENHANCEMENTS

### SmarTeam – Editor

The SmarTeam – Web Editor product license was withdrawn in V5R18, and all SmarTeam – Web Editor functionalities were incorporated within the SmarTeam – Editor product license. In the SmarTeam application interface the name SmarTeam – Web Editor was retained, but in all the documentation it is now referred to as the SmarTeam – Editor web-based client.

#### Windows client (SmarTeam – Editor):

- Menu Editor Improvements - Toolbars Area
  - Arrange the Toolbar Area for groups/users in the Menu Editor
  - Save Toolbar Area in Database instead of on local machine
- Sort per Creation Date
  - Sort the Tree and Search by Attribute objects by Creation Date in descending order

#### Web-based client (SmarTeam – Web Editor):

- Thumbnails Presentation
  - Start point for catalogs etc.
  - Reduced number of user clicks for document presentation
  - Viewed from search (Detailed / Chart / Thumbnails)
- Icon per File Type
  - Enable presentation of icon per file type in the Navigation Tree and Grid
  - Visibility of the document file type in Web Editor, Navigator and CWI
  - Consistency with SmarTeam - Editor and CAD Integrations
- Upload Documents (in SmarTeam – Web Editor and as standalone)
  - Enable the upload of multiple documents to SmarTeam via SmarTeam - Web Editor in one command
- New Visual Components (in SmarTeam – Web Editor and as standalone)
  - Create Object
  - SmartBox
  - Favorites
- Improved performance using VC Telerik

### SmarTeam – Navigator

- Same as SmarTeam – Editor, Web-based client, except for Upload Documents and Visual Component for Create Object

### SmarTeam – BOM

- BOM Editor - Create and Update Items
  - Enable adding new Item to SmarTeam

- Enable updating existing Item by opening Profile Card
- ❑ Show missing definitions for Copy Tool Operation
  - Before running Copy Tool the command will check that all attribute definitions for the created and updated objects are valid, e.g., Part Number
  - If there are invalid or missing definitions, all source objects for the copy with missing definitions will be shown in a new grid window
- ❑ Copy Tool Mapping - Usability Enhancements
  - Open mapping for editing by double-click
  - Replacing “Add” and “Delete” buttons with commands in context menu
- ❑ Documentation - Publish BOM API
  - Publish Item Management API command with examples
  - Publish BOM utilities API commands
- ❑ BOM Briefcase
  - BOM Briefcase is disabled from V5R20
  - Existing customers who wish to continue using BOM Briefcase for Supply Chain exchange should contact ENOVIA SmarTeam Customer Support for details on how to activate the existing mechanism ‘as is’
  - As Is - (no further enhancements / corrective actions will be provided)

## SmarTeam – Workflow

This product includes no new functionality in this release.

## SmarTeam – CATIA Integration

- ❑ Large Assembly & Concurrent Design:
  - Global Refresh: Enables you to update a complete CATIA product, applying the latest available revisions to all of the product’s representation files (CGR).
  - Design Compare: Allows the opening of several versions of the same CATIA Part or CATIA Product within a CATIA session, helping the designer to integrate the preferred version into the final project.
- ❑ Releasing a checked-in document using Job Server:
  - If Job Server is implemented on your system, CATIA documents can now be released directly from SmarTeam - Editor without the need for a CATIA installation on your machine.
- ❑ SmarTeam Document Status in the CATIA Document Node Tooltip:
  - The SmarTeam Document status (Check In, Check Out, Release) has been added to the tooltip of the CATIA document Node.
- ❑ Save as Type option:
  - The new Save as Type option saves the current document into the SmarTeam database in a different format and optionally links it to the master CATIA document used to create this document. This safely saves the created document to SmarTeam, eliminating the possibility of mistakes when manually defining the file type and linking it to a specific revision.

- Tools Options:
  - Some environment variables have been removed and their purpose is now exposed in the SmarTeam (CAI) Tools options tab:
    - Display the SmarTeam Project Manager window the first time a Save to SmarTeam operation is performed even if the root object was previously saved.
    - Prevent the SmarTeam Save operation from loading the context during the update of design links, in order to improve performance and memory consumption.
    - Allow the Check-Out/New-Release operation on non-latest revision.
    - Send the activated/deactivated status of each instance to SmarTeam to compute the Quantity attribute based on this information.
- Non-latest available icon:
  - The non-latest available icons have been updated.
- Batch for instance exposure:
  - The 3DLive functionality requires instance positioning information. This functionality provides a tool to save the instances information of CATIA products selected in SmarTeam. The tool may be automated to run on the entire database.
- Quantity:
  - When the Save process updates the links between each component of the assembly, the activated/deactivated status of each instance is exposed to SmarTeam. After that, the Quantity attribute of a component under its parent can be computed as the sum of all its active instances. The Quantity attribute value is recomputed and updated in SmarTeam each time a SmarTeam/Save or SmarTeam/CheckIn is done on a checked-out/new/released assembly
- Drawing Attribute Link:
  - When the user creates a Drawing of a Product, generates balloons and saves the drawing to SmarTeam, the CATIA integration creates links of each Part of the Product that is also linked to the Drawing. SDE normally uses the balloon feature for drafting interactivity. Therefore, when a SmarTeam Save is performed, many links are generated between the actual Part and the Drawing that is saved in SmarTeam. However, according to the SDE LifeCycle Rule Setup, when the Part is checked out, the drawing is also Checked Out, which may not be necessary. The documentation explains how to avoid saving this link in SmarTeam.
- Open for Edit:
  - The Open for Edit check box allows you to open a document for editing. When this check box is marked, the Check Out or New Release lifecycle operation is invoked and the corresponding lifecycle window appears. After checking out/releasing the document, it is opened in CATIA. Note that this check box is only available for Checked In or Released documents. If the Check Out/New Release operation fails or is cancelled, the document will not be opened in CATIA.
- Save /Project Manager:
  - The Project Manager dialog box is displayed for the first new document to be saved during a CATIA/SmarTeam Save transaction.

## SmarTeam – CATIA Web Integration

- ❑ The new SmarTeam icons are displayed in the CATIA menus

## SmarTeam – CATIA Supply Chain Engineering Exchange

- ❑ GUI enhancements which improve Reconciliator's usability
  - Reconciliator window
  - Size & position are remembered
- ❑ Reconciliation of CATShape documents:
  - The current enhancement extends the document types supported by the Reconciliator to include the CATShape. This development extends the Reconciliator scope to applications such as Piping and Tubing.
- ❑ Exposed Reconciliator CAA APIs:
  - Enables the development of CAA applications which integrate Reconciliator functionality and enables the customization of existing Reconciliator functionality by adding new criteria or implementing existing user criteria.
- ❑ Save & Restore Reconciliation session:
  - Saves and restores settings that were previously defined for mapping and rules of the interactive Reconciliator application.

## SmarTeam – SolidWorks Integration

- ❑ Enhancements to Lightweight Support
  - Save Lightweight components without Resolve
    - Saving Lightweight components to SmarTeam will not force Resolve
    - Mapping to New/Checked Out Lightweight component executed without Resolve
    - When saving a Drawing of a Lightweight Model, Save accomplished without Resolve
- ❑ Enhancements to Configurations Support
  - Master Configuration (Simplified Configuration)
  - Do not save derived configurations
- ❑ Enhancement to DMT
  - The DMT will present all components types
  - Dedicated icons will indicate the components type (Lightweight, Suppressed, Hidden, and Virtual)
  - Find in the DMT (Go To...) will be executed on all levels, and will include unloaded components. When a component is found (through Go To...), its branch will be expanded
  - DMT tab will be presented in both sections
- ❑ Display State Support

- Display State supported through the SmarTeam Open Dialog in SolidWorks and Open For... in SmarTeam - Editor
- Display State enables the user to define which component to load in SolidWorks
- ❑ Suppressed Components
  - When saving an Assembly that contains unloaded components, only loaded components will be saved (Save will not trigger the load of unloaded components)
  - Unloaded components will be calculated to provide the correct quantity
  - Suppressed component will always be saved with a new link SolidWorks Suppressed
- ❑ Open for Edit checkbox in SolidWorks Open dialog
  - Ability to perform Check Out / New Release for the document while opening in SolidWorks Integration

## **SmarTeam – AutoCAD Integration**

This product includes no new functionality in this release.

## **SmarTeam – Inventor Integration**

- ❑ SmarTeam Ribbon in Inventor User Interface

## **SmarTeam – Solid Edge Integration**

This product includes no new functionality in this release.

## **SmarTeam – Multi-CAD Integration**

This product includes no new functionality in this release.

- ❑ Thumbnails Presentation
  - Reduced number of user clicks for document presentation
  - Start point for catalogs etc.
  - Viewed from search (Detailed / Chart / Thumbnails)
- ❑ Icon per File Type
  - Enable presentation of icon per file type in the Navigation Tree and Grid
  - Visibility of the document file type in Web Editor, Navigator and CWI
  - Consistency with SmarTeam - Editor and CAD Integrations
- ❑ New Visual Components (in SmarTeam – Web Editor and as standalone)
  - SmartBox
  - Favorites
- ❑ Improved performance using VC Telerik

## **SmarTeam – Program Management**

This product includes no new functionality in this release.

## **SmarTeam – Regulatory Compliance Framework**

A new document called SmarTeam – Regulatory Compliance Administration Guide is available on the ENOVIA SmarTeam Documentation CD. It replaces the SmarTeam – Regulatory Compliance User Guide.

## **SmarTeam – Foundation**

This product includes no new functionality in this release.

## **SmarTeam – Multi-site**

This product includes no new functionality in this release.

## **SmarTeam – Multi-site Vault**

This product includes no new functionality in this release.

## **SmarTeam – Development Suite**

This product includes no new functionality in this release.

## **SmarTeam – Job Server**

- A new document called SmarTeam – Job Server Administration Guide is available on the ENOVIA SmarTeam Documentation CD. It replaces the SmarTeam – Job Server Online Help.
- Support Silent Release for CATIA

## **SmarTeam – Gateway**

This product includes no new functionality in this release.

## **SmarTeam – Community Workspace**

This product includes no new functionality in this release.