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SMARTTEAM V5R16

Product Enhancement Overview

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Part No.: GEN-A8-160005

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SMARTTEAM V5R16 – WHAT'S NEW

SMARTTEAM V5R16 responds to customer and channel demand for a single content release per year, refining existing content into best-in-class PLM value solutions

SMARTTEAM V5R16 delivers quality, robust, mature, field-tested applications and is refining the support for diverse customer scenarios across industries with:

- Robust and mature web environment
- Enhanced administration and usability
- Performance certification
- Proven enterprise scalability

SMARTTEAM V5R16 enhancing to following SMARTTEAM capabilities:

- **Seamless engineering exchange drives outstanding end-to-end PLM coverage for OEMs and their suppliers**
 - New Supply Chain Engineering Exchange across heterogeneous environments reconciles modified CATIA data while providing flexible adherence to business rules and iron-clad integrity around CATIA relational design data, fortifying continuity within the design chain
 - On-demand analysis of SMARTTEAM data from within CATIA V5 helps designers efficiently evaluate the impact of changes to documents, enhancing decision making, improving product quality and reducing costs, supporting work with suppliers
- **Expanded enterprise scenario support through enhanced business process efficiency**
 - Enhanced workflows now support dynamic assignment of groups and roles, enabling project managers to empower relevant users with latest data access, facilitating productivity, effective resource use and reuse of work processes, particularly in large enterprise work scenarios
 - Greater design security through project-based authorizations in Design Copy ensures that only qualified users replicate any given design, resulting in enhanced governance of project IP in the context of facilitated knowledge reuse.
 - Enhanced concurrent design capabilities based on Global Refresh, Session Compare and Manage Effectivities
- **Enhanced productivity through extended product knowledge capture and use**
 - Robust latest version multi-CAD with market-driven feature support, including across enhanced Pro/ENGINEER, SolidWorks, Autodesk, and Solid Edge; advanced, latest viewing enhances multi-CAD knowledge-sharing across extended and dispersed teams

- New Product & Configuration Management Best Practices Suite leverages SMARTEAM and industry expertise to facilitate the rapid implementation of optimizing BOM-related processes
 - New means for rapid and reliable product costing via the partner-developed Tacton sales configurator, which leverages BOM data to help build-to-order manufacturers develop customized sales tools
 - Enhanced options for extending product knowledge and process across enterprise targets through partner connectors and latest middleware
- **Empowered engineering collaboration through bi-directional links on all product data**
- Powerful bi-directional links management across all product data enhances engineering collaboration, including on change management
 - Fortified Web solutions, with enhanced viewing and deployment methodology, enabling robust low total cost of ownership web-based solutions for enhanced enterprise collaboration
- **Extended solutions value through dynamic partner synergy and expanded platform power**
- Latest certifications across operating systems, browsers, viewers; Upgraded Development Suite for enhanced extendibility
 - Dynamic 64-bit platform support leverages superior memory and processing capabilities, accelerating work for E&E and OEM suppliers
 - Innovative licensing flexibility and latest LUM certification extracts greater value from the PLM asset

This document is a summary of the product enhancements across SmarTeam's range of products for V5R16. For detailed information, refer to the appropriate product documentation.

SMARTTEAM V5R16 ENHANCEMENTS

SMARTTEAM® – CATIA Supply Chain Engineering Exchange (SEE) – New product in V5R16 Portfolio

- **A CATIA V5 relational design comparing and reconciliation tool empowering business partner collaboration**
 - SMARTTEAM – CATIA Supply Change Engineering Exchange (SEE) enables SMARTTEAM – 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. SMARTTEAM, ENOVIA V5 VPM, ENOVIAvpm or any other PDM system).
 - SMARTTEAM – CATIA Integration users can interactively visualize and compare a set of CATIA documents coming, for example, from an OEM or a supplier, and reconcile selected documents back into existing SMARTTEAM-managed, CATIA V5 documents. Facilitating decision-making, and adhering to CATIA relational design associativity rules, SEE 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.

- **Product Highlights**
 - A CATIA V5 relational design comparing and reconciliation tool empowering business partner collaboration
 - Interacts with heterogeneous platforms, supporting diverse collaborative engineering scenarios across the supply chain
 - Unique reconciliation mechanism
 - Manages native CATIA V5 data and multiple document types, while maintaining links consistency
 - OEM and suppliers communicate on CATIA Relational Design data regardless of PDM system
 - Customizable query mechanism improves users' reconciliation productivity
 - 3D views facilitate decision-making
 - Efficient delta mode of data exchange - Subset CATIA data packaging adapted to exact business needs
 - Links consistency maintained in different file naming conventions
 - Rule propagation increases control and productivity
 - Easy-to-use graphical interface

Viewers

Supports **SMARTEAM-Editor**, **SMARTEAM-Web Editor**, **SMARTEAM-Navigator**, **SMARTEAM – Community Workspace**

❑ **Enhanced visualization capabilities**

SMARTEAM embedded viewer supports:

- ❑ Viewing of CATIA V5R16 documents by integrating with the most up-to-date Dassault Systemes 3D PLM viewer version (not supported on **SMARTEAM – Community Workspace**)
- ❑ Viewing and markup of more than 450 file formats by integrating with the latest Cimmetry® AutoVue Solid Model Professional Viewer version 18SP8.

Viewer enhancements include added support for:

MCAD Formats

- Added support for KOSDIC STEP files. (KOSDIC is a Korean Standard for Drawing information in construction - <http://www.kosdic.or.kr>)
- Added support for Autodesk Inventor 10 files
- Solid Edge® assembly configurations, and file units for parts and assemblies

ECAD Formats

- Mentor Expedition version 2004
- Hierarchy navigation for Mentor Design Architect (schematic) files

AEC Formats

- Added support for AutoCAD 2006 files
- Added INI file option for AutoCAD files version 14 and above to control display scale of line weights.

Office Formats

- Microsoft® Project 2003
- ❑ Viewing of SolidWorks 2006 documents by integrating with eDrawings 2006

SMARTEAM – Foundation (FDN)

❑ **LUM (Licensing Use Management) 4.6.8 certification**

❑ **LUM configurable idle time reflected in all SMARTEAM products**

SMARTEAM – Foundation allows administrators to configure the LUM idle time according to their business rules for obtaining and releasing a license in support of their concurrent engineering licensing model.

This capability is reflected in all SMARTEAM products, and contributes to improvement of system performance as the “heart beats” received in the LUM, identify whether the user is active or not, and “frees up” the utilization upon the predefined idle time settings.

❑ **Implementation of Project Security in Design Copy**

❑ **Installation enhancements**

Rewriting of the SMARTEAM - Foundation installation process in MSI instead of Install Shield to unify the installation process for all SMARTEAM products.

❑ **Supports DB2 8.2, and DB2 8.1 FixPack 7**

❑ **Supports Oracle 10g for all Operating Systems**

SMARTEAM - Editor

❑ **Creation and visualization of directional links**

SMARTEAM provides the flexibility to define dependency links between any two objects, in addition to the existing bidirectional link types (general links).

Defined in the Data Model Designer (DMD), and visualized with new icons for improved usability, this conditional-type setting has implications on lifecycle rule behavior. In this manner, for example, a check out operation of the source object will trigger the same operation on its related objects.

For example, a check out of a functional specification document will automatically check out its corresponding white paper, but not vice versa. This also enables the management of alternate parts substitutes. If the master part changes, the substitute parts change accordingly.

Directional links are displayed both in the tree view and the grid view and include links in both directions.

Directional links definition benefits users in the following scenarios:

- Substitutes – links that define which part may replace the other part, under certain circumstances.
- CAD Representation/export link – provides the dependency between an original CAD package to an exported CAD package while working with suppliers and customers
- "Depends on" links used in System engineering are based on the directional links in order to specify which of the two objects depend on which.

❑ Set the Keep Checked Out Flag Default per User

In complex engineering modeling scenarios, whereby each engineer is designing a different portion of the assembly, it is important that all users share the latest information.

To increase efficiency and user productivity, each user can define his/her own lifecycle operation setting default, such that the check-in operation, will immediately invoke the check-out operation. In this manner, the other engineers get the latest version of the sub-assembly on the one hand, and the corresponding engineer keeps enhancing his/her model. A flag displays the object state, alerting that there is still a check-out version outside. Once the final version is ready, the user cancels this automatic setting, and the latest version is check-in.

❑ Implementation of Project Security in Design Copy

Project-based authorization is now applicable to the Design copy option as well. The Design copy enables users to leverage corporate IP, save time, and avoid errors, by reusing existing projects and modifying them accordingly. In order to impose security measures, duplicated designs can be secured by defined projects.

Project-based authorization is already available in SMARTEAM – Editor and the CAD Integrations. Users are able to view, access and manipulate documents according to their user, group and role-based authorizations in a specific project – as defined by the administrator and the project manager.

- Project-based authorizations enable businesses to meet enterprise-wide implementation needs.
- The authorization to access information and modify it can be governed by the project(s) to which the object is related
- Simple user interface helps authorized users to easily administrate user access permissions for a project

❑ Installation Enhancements improve administration usability

- Insert SmartDbExplorer, SmartDBRepairing and SmartDBUpgrade into SMARTEAM – Editor as an administrator tool
- Insert the MUS client into the EDR core

❑ Supports Crystal Report 11.0

The embedded OLE DB provider in SMARTEAM – Editor enables businesses to leverage SMARTEAM knowledge by exposing SMARTEAM data to Crystal Report 11.0, allowing users to generate sophisticated reports on any SMARTEAM objects, enhancing decision making. For example, users can define queries by condition formulas, e.g. around projects start design date and end date; by engineers' names; according to physical size of a part, or any other attribute that is recorded in SMARTEAM.

Crystal Report 11.0 provides:

- Dynamic and Cascading Prompts

- HTML Preview
- Dynamic Image Location
- Editable RTF Format
- Intelligent Charting
- **Supports Microsoft Windows XP SP2, and Windows 2003 SP1**
- **Supports Microsoft Word, Excel and Outlook 2003 SP1 and 2002 (XP) SP3**
- **64-bit certification**
SMARTEAM (32-bit) support on Microsoft Windows 64-bit.

SMARTEAM – Web Editor / Navigator

- **Usability Improvements**
 - In a combined SMARTEAM – Workflow (WFL) scenarios, upon selection of the SmartBox option for viewing the awaiting processes and tasks, the inbox folder is displayed in the main pane by default, saving another click of a mouse.
 - Preferences display – Upon selection of the preference option from the main menu, a display of the preference attributes i.e. which fields were selected for display per class, e.g. documents, product, parts, material) is automatically displayed as a default, Other preferences, such as databases, and more, can be selected as well.
 - The label of the ‘Cancel’ button in the User Defined Tools (UDT) page, has been replaced with the word ‘Exit’ to more appropriately describe the action performed.
 - The Recent objects pane in the main cockpit now includes the “checked-out” objects, instead of the “checked-in” objects, as the real change in a version is during check-out operation.
- **Operating System and Internet Browsers version support**
 - Supports Microsoft Windows XP SP2, and Windows 2003 SP1
 - Supports Microsoft Word, Excel and Outlook 2003 SP1 and 2002 (XP) SP3
 - Supports Mozilla 1.4 for HP and AIX 5.2 client machines

SMARTEAM – Community Workspace

- **Supports Microsoft Windows XP SP2, and Windows 2003 SP1**

SMARTEAM – Workflow

□ Dynamic Assignment of Group/Roles to Nodes

SMARTEAM – Workflow enables the assignment of groups and roles to nodes, in order enhance its support for large enterprise scenarios. Any changes in the assignment of users to groups or roles in the enterprise are automatically applied to the active process in the system. The workflow template refers to the groups and roles defined in the system, and the relevant users are assigned appropriately, based on the up-to-date user definition.

SMARTEAM – CATIA Integration (CAI)

□ Supports CATIA V5R16, V5R15 and V5R14

Supports CATIA V5R16, V5R15 and V5R14 in a cross release mode, thereby allowing multiple CATIA release data to be saved into a given SMARTEAM release. For example. CATIA V5R14 to V5R16 data can be managed by SMARTEAM. This allows suppliers to interact with multiple OEMs working with different CATIA versions

□ Impact Analysis Tools

With CATIA V5, designers can efficiently determine the implications of changes to documents, thus enhancing decision making, improving product quality and reducing modification costs.

With the impact Analysis tool, users can immediately access the dependant, linked documents, and for example, analyze the impact of 3D part modifications as related to referenced assemblies, drawings, analysis, documents, and more.

□ Supports 64-bit

- Microsoft Windows 64-bit supports a CATIA 64-bit installation together with SMARTEAM (32-bit). This significantly improves the memory management especially for very large assemblies.
- Impact Analysis is not supported in 64-bit platform

□ Global refresh

- This enhancement brings much value and a competitive advantage in collaborative engineering scenarios. With a single click, the global refresh command enables users to reload the latest version of, for example, a selected top assembly and all of its children. This is especially beneficial to organization working with complex assemblies. The global refresh enhancement improves collaboration between engineers working on mutual assemblies, and saves time, while maintaining data integrity.

❑ Document Link Analysis

- Users are able to compare their session with the checked-in and released data stored in SMARTEAM. This helps maintain data integrity between CATIA and SMARTEAM, as it guarantees links consistency across document revisions.

❑ Contextual Menu Integration

- SMARTEAM operations can be initiated directly from any active window within the CATIA session, by right-clicking on any selected object, whether from the 3D view, or from the product structure tree.

❑ Transparent SMARTEAM Save

- An optional, predefined, yet flexible, user option, enabling CATIA users to save their documents into SMARTEAM, while remaining in the CATIA session, and without exposing the corresponding SMARTEAM profile card. As the seamless SMARTEAM – CATIA integration automatically maps the appropriate attributes into SMARTEAM; engineers may select a transparent Save mode, which will not display the SMARTEAM profile card, enhancing smoother CATIA designers' work.

❑ Silent lifecycle operation

- Another optional, predefined, yet flexible, user option, enabling users to perform lifecycle operations in a “No Dialog” lifecycle mode, enabling automatic management of lifecycle operations without manual intervention.

❑ Performance improvements

- Gain of 50% in time saving in some scenarios, especially upon product structure tree expansion (depending on the data).

❑ VB API Exposure

- Visual Basic Application Program Interfaces (APIs) enable customers to customize the behaviour of their SMARTEAM processes relatively to CATIA data, providing an automatic event-trigger mechanism that improves productivity and maintains corporate business rules.

❑ Improved Documentation

- New methodology guidelines with scenarios and best practices in the following domains: concurrent engineering, drafting, catalog, sheet metal process, analysis, and drawing.

SMARTEAM – AC Integration (ACI)

- ❑ **Open Dialog implementation enables secure access to SMARTEAM vaulted files directly from within the AutoCAD user interface**
 - The SMARTEAM – AC Integration enables AutoCAD users to open AutoCAD files directly from the SMARTEAM vault. A SMARTEAM “Open” dialog box replaces the AutoCAD “Open” dialog box by default, enabling users to search for, and navigate through preview thumbnails within SMARTEAM projects during operations such as “Open Files”, “Insert XREF”, etc.
- ❑ **Version Support**
 - AutoCAD and Autodesk Mechanical 2006 and 2005

SMARTEAM – MD Integration (MDI)

- ❑ **Autodesk Mechanical Desktop 2005 and 2006**
- ❑ **Open Dialog implementation enables secure access to SMARTEAM vaulted files directly from within the AutoCAD user interface**
- ❑ The SMARTEAM – MD Integration enables Autodesk Mechanical Desktop users to open files directly from the SMARTEAM vault. A SMARTEAM “Open” dialog box replaces the Autodesk Mechanical Desktop “Open” dialog box by default, enabling users to search for, and navigate through preview thumbnails within SMARTEAM projects during operations such as “Open Files”, “Insert Component”, etc.

SMARTEAM – IN Integration (INI)

- ❑ **Supports Autodesk Inventor 10 and Inventor 9**

SMARTEAM – SW Integration (SWI)

- ❑ **SMARTEAM enhanced SolidWorks Toolbox integration by adding the ability for bi-directional mapping of configuration specific properties for Toolbox parts.**
- ❑ **Version Support**
 - SolidWorks 2005, 2006

SMARTTEAM – SE Integration (SEI)

- ❑ **Open Dialog implementation enables secure access to SMARTTEAM vaulted files directly from within the Solid Edge user interface**

The SMARTTEAM – SE Integration enables Solid Edge users to open Solid Edge files directly from the SMARTTEAM vault. A SMARTTEAM “open” dialog box replaces the Solid Edge “open” dialog box by default, enabling users to search for, and navigate through preview thumbnails within SMARTTEAM projects during operations such as “open files”, “insert component”, etc.

- ❑ **Version Support**
 - Solid Edge V17, V16

SMARTTEAM – P Integration (PEI)

- ❑ **Supports additional Integration links and data types**

The SMARTTEAM Integration to Pro/ENGINEER now supports additional integration links, enhancing data integrity and management capabilities.

SMARTTEAM – P Integration supports the management of Pro/ENGINEER drawing formats, standalone user-defined features, accelerator files and reports, in addition to the already supported parts, assemblies, drawings, layout files, manufacturing objects, skeleton parts, as well the links between these entities.

The SMARTTEAM Integration recognizes these Pro/ENGINEER objects and automatically saves them and their related links into SMARTTEAM. In this manner, when such an object is retrieved from the SMARTTEAM vault, other objects on which it is dependent will be retrieved as well, maintaining data integrity and management.

- ❑ **Supports Multiple Pro/ENGINEER versions on a single workstation**

SMARTTEAM – P Integration supports multiple Pro/ENGINEER version installations on a single PEI workstation, i.e. a single PEI user/machine can work with different Pro/ENGINEER versions. This enables suppliers to work with multiple OEMs, which may work with different Pro/ENGINEER versions (e.g. wildfire and wildfire 2). A single user, however can use a single Pro/ENGINEER version at a time.

- ❑ **Object Rename**

SMARTTEAM – P Integration enables users to rename vaulted Pro/ENGINEER files and objects, (e.g. models, attributes). Objects that are linked to the renamed object are automatically updated upon the following modification. In this manner, users can update, for example, the file name of a part that was already checked-in the SMARTTEAM vault with a temporary file name, in order to comply to a part catalog number from the ERP system, or to a supplier part number, if desired. This supports organization business logic for managing part numbers and file names.

❑ Edited Object Notification

The SMARTEAM – P Integration lets users become aware of objects that have been modified in the Pro/ENGINEER session. A refresh of the data manager tree will display an asterisk next to any object that has changed in the session since it was opened from SMARTEAM. This allows users to proactively check-out objects that require editing prior to attempting to perform a check-in, and enhances Work in Progress (WIP) design collaboration..

❑ Load New Structure in Pro/ENGINEER

SMARTEAM – P Integration enables users to create an assembly structure including drawing links in SMARTEAM and load the entire structure (without geometry) to the Pro/ENGINEER session. This option allows a high level definition by the product manager, which can later be expanded in detail by the designer.

❑ Administrator Options

From V5R16, most user options can be set only by administrator.

- Options requiring administrator privileges:
 - Save user parameters
 - Save mass properties
 - Save suppressed objects
 - Save assembly instances
 - Save part instances
 - Save model dependencies
 - Display the “Project Manager” dialog
 - Default license timeout value in minutes (new)
- Options available to be set by the user:
 - Expand instances in the data manager tree
 - Prompt for simplified graphical representations – a light mode load of the Pro/ENGINEER model. All vaulted files are copied-out, but the assembly opens and loads into the memory only a defined subset of files enough for the engineer to complete his work. This reduces the time it will take to upload the complete Pro/ENGINEER assembly.
 - Leave objects in Pro/ENGINEER session during Check-in/Release

❑ Version support

- The SMARTEAM – P Integration now supports Pro/ENGINEER Wildfire 2.0, as well as Wildfire 1.0 and Pro/ENGINEER 2001.

(This support was initially made available in V5R13 SP8 and V5R14 SP5).

SMARTEAM – MI Integration (MII)

- ❑ **Supports MicroStation V8 2004 Edition**

SMARTEAM – Gateway (GWY)

- ❑ **Supports Microsoft BizTalk Server 2004**
SMARTEAM - Gateway supports the latest Microsoft Enterprise Application Integration platform version
- ❑ **Supports IBM WebSphere Business Integration (WBI) 2.6 Adapter Development Kit (ADK)**

SMARTEAM – SA Adapter (SAA)

- ❑ **Supports Microsoft BizTalk Server 2004**
The SMARETAM SAP Adapter supports the latest Microsoft Enterprise Application Integration platform version.

SMARTEAM – OA Adapter (OAA)

- ❑ **Supports Microsoft BizTalk Server 2004**
The SMARTEAM Oracle Application Adapter supports the latest Microsoft Enterprise Application Integration platform version.
- ❑ **Supports Oracle Application 11.5.9**
This version support enhances the part behavior handling between SMARTEAM PLM and Oracle Application ERP system.

SMARTEAM – Development Suite (DVS)

- ❑ **Supports Microsoft Windows XP SP2, and Windows 2003 SP1**

SMARTEAM – Program Management

- ❑ **Ability to Work with Microsoft Project off-line**
SMARTEAM – Program Management enables project managers to edit SMARTEAM's projects using Microsoft Project, while disconnected from SMARTEAM Server. The synchronization of the changes performed in Microsoft Project will be synchronized into SMARTEAM at a later time.

64-BIT Environment

The following SMARTEAM products can run as 32-bit applications in a 64-bit environment:

- SMARTEAM – Editor
Note: The installation of SMARTEAM – Editor on a 64-bit machine will not include the System Configuration Editor utility.
- SMARTEAM – Workflow (client only)
- SMARTEAM – BOM
- SMARTEAM – CATIA Integration

Supported Hardware and Operating Systems:

- Windows XP Professional x64 Edition
- INTEL EM64T or AMD Opteron 64