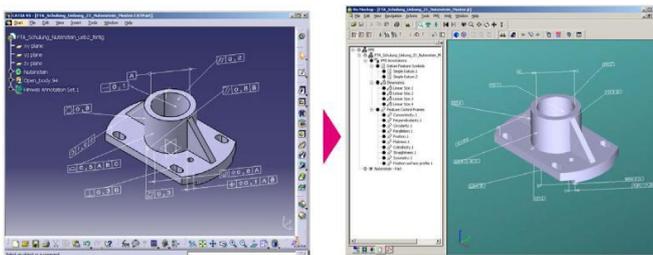# PLM SOLUTIONS.
## ENGINEERING TOOLBOX.

Do you need to develop your products faster and more cost effectively? As you've known for a long time, this isn't possible without modern IT technology. Today, highly specialized, integrated IT solutions are required to complete different tasks in the development process.
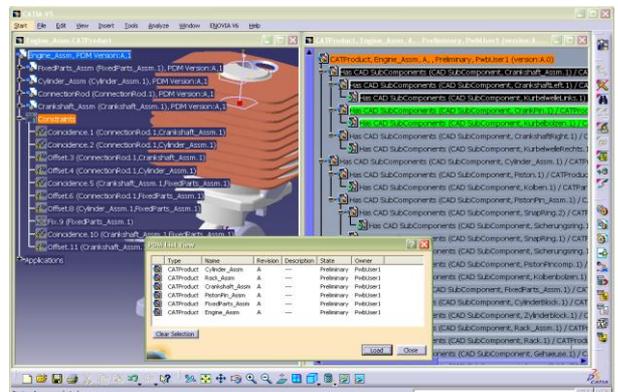
## HOLISTIC PROCESS SUPPORT.

T-Systems offers both customized solutions, developed to meet the requirements of your projects and systems, and standard applications, which can be implemented quickly and cost effectively to support your product lifecycle management processes.

Our standard products are used worldwide by leading companies in the manufacturing industry. They cover a wide range of functions and offer a high level of standardization, which reduces costs. The solutions are also scalable and customizable for your specific requirements. Clear, transparent price models for every possible application ensure effective planning and fast implementation.

## ENGINEERING PROCESS INTEGRATION
## T-SYSTEMS' INTEGRATION PRODUCTS FOR EDM/PDM SYSTEMS AND COUPLING OF EDM AND CAD SYSTEMS

- **Data exchange and conversion:** Software solutions for the process integration and data availability, based on standards.
  - **COM/FOX:** COM/FOX (multi Format Optimized eXchange) enables the parametric driven conversion and optimization of 3D data formats, using a comfortable JAVA user interface interactive or via batch. Geometry, assembly structures, tolerances, manufacturing and electrical data also will be converted associatively to the 3D geometry.
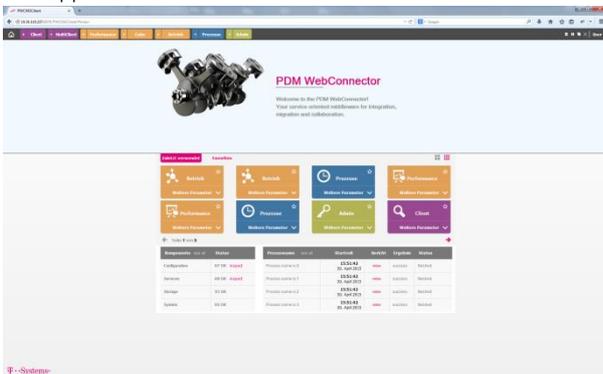


- **PDM and CAD Integration:** Software solutions for the PDM and CAD integration of Standard and legacy systems.
  - **CMI:** CMI is the T-Systems high-end solution for the integration of the CAD systems CATIA V4/V5 with the PDM system Teamcenter Enterprise. The CATIA integration product combines the PLM power of Teamcenter Enterprise with the CAD superiority of CATIA and offers the full advantage of collaborative product development.
  - **CMI RII:** With CMI RII T-Systems extends the existing CMI CATIA integration suite in direction of Teamcenter. T-Systems transformed all the powerful features of CMI to the new PLM architecture, in a way that the CATIA integration is now a natural component of the Teamcenter Rich Client application.
  - **TCI:** The CATIA V6 Teamcenter Integration (TCI) is the adapter of the xPDM Gateway integration. With this solution CATIA V6 can be used as a design and engineering tool in the context of a Teamcenter PDM environment.
  - **PDM Workbench for Aras Innovator:** PDM Workbench is a CATIA V5 integration which comes with a PDM client integrated in the CATIA V5 GUI. It combines the control of PDM with the CAD superiority of CATIA V5 in a single user interface.
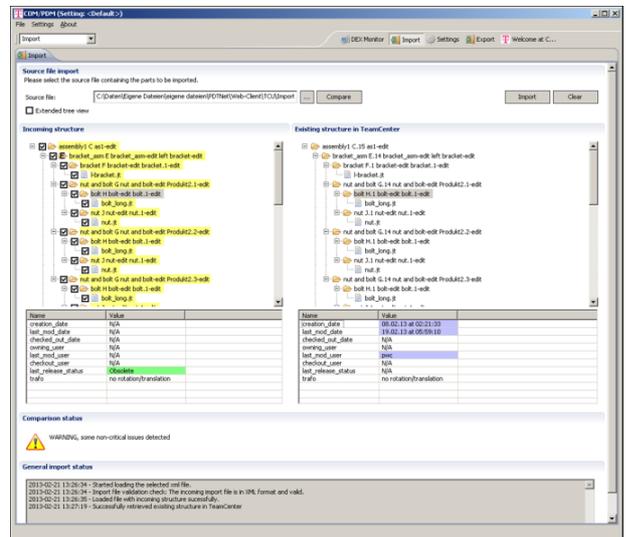
# PLM SOLUTIONS.

- **PDM Workbench for SAP**: The PDM Workbench, designed as a CATIA V5 Add-In, is dedicated to displaying and manipulating PDM data. The solution relies on a Web-Services Infrastructure and works with SAP. It supports PDM capabilities like query, BOM navigation, check out/check in/update/create of PDM and CAD data and enables the designer to take full advantage of PDM capabilities supporting collaborative product development, all within the CATIA V5 environment the designer is familiar with.
- **COM/Recon for NX**: COM/Recon for NX is a batch tool for reconciliation of Siemens NX assembly data. COM/Recon for NX Connector is an extension of the Siemens NX user interface integrating a lightweight PDM system to manage the data.
- **PDM WebConnector**: With the PDM WebConnector T-Systems delivers a module, which fits in seamlessly into an existing system architecture, making the legacy systems (e.g. PLM systems) SOA compliant and integrating them into consisting applications and web applications.



- **ENOVIA-SAP-Integration**
  - **3DEXPERIENCE X-BOM Connector for SAP:** X-BOM for SAP provides bi-directional connectivity between ENOVIA PLM and SAP. X-BOM for SAP synchronizes materials, documents and bills of materials between systems and enables the ENOVIA user to view and compare SAP data from within the ENOVIA web UI.
  - **ENOVIA V6 xPDM Integration for SAP:** Integrating PLM and ERP is not an easy proposition, even if we focus on two of the leading systems in their respective domains: ENOVIA V6 and SAP R/3. To integrate the processes they offer you have to understand the underlying paradigms and assumptions they make. We have been doing that kind of integration since 1997. Trust us to get it right again.
- **SAP Data Converter**
  - **UDC:** The Universal Data Converter (UDC) is a certified SAP Partner Solution for seamless integration of product (BoM) and process data (Activities and Line Design) in SAP and is fully integrated into the SAP Change Management Process.

**PRODUCT DATA EXCHANGE**
T-SYSTEMS' PLM COLLABORATION APPLICATIONS WHICH FOCUS ON COLLABORATION BETWEEN OEMS AND DEVELOPMENT PARTNERS IN THE DIGITAL PRODUCT DEVELOPMENT PROCESS

- **Engineering Network:** Software solutions for the collaboration inside the engineering network of OEMs and Suppliers.
  - **COM/PDM:** The software solutions COM/VPM, COM/TC, COM/WT and COM/Aras support the asynchronous PDM data exchange of hierarchical assembly structures with associated CAD files. Parts and assemblies with associated geometry files and additional documents can be exported from the respective PDM system and can be imported into the target PDM system.



  - **SAM:** SAM (STEP Assembly Manager) addresses suppliers facing the task of working on hierarchical assembly structures with CATIA models from OEMs (Daimler, Renault, etc.). OEMs use PDM systems for management of their product structures (e.g. Smaragd at Daimler and GDG at Renault). However, many suppliers don't want to purchase a PDM system for this purpose. SAM is the solution for these suppliers since having CATIA is the only requirement.
  - **TANDEM:** TANDEM is a collection of macros and templates for process-related collaboration between development partners and Daimler AG.

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