Leveraging intellectual assets throughout the product lifecycle

Teamcenter Visualization Base is an intuitive and easy-to-use solution that enables enterprise users to access documents, 2D drawings and 3D models in a single environment. Designed for non-technical users and managers who do not have the time to learn complex software (such as a CAD system), Teamcenter Visualization Base can be mastered by new users within a few hours – thereby enabling knowledge users to understand product concepts that were not easily communicated in the past.

Teamcenter Visualization Base lets enterprises unlock product knowledge created across multiple disciplines and leverage these highly valuable intellectual assets throughout the entire product lifecycle. By providing users with access to an enterprise’s entire wealth of intellectual assets, Teamcenter Visualization Base enables users in one discipline to leverage knowledge created by other disciplines and apply these untapped assets when developing innovative new products and improving lifecycle processes.

Teamcenter Visualization leadership

Teamcenter Visualization has proven its credentials as the world’s leading visualization solution for more than a decade by providing unmatched performance and a solution portfolio of unsurpassed breadth. Teamcenter Visualization has generated substantial returns on investment for more than 900,000 users in more than 35,000 sites across 43 countries. As a result, Teamcenter Visualization not only provides your enterprise with the best visualization technology on the market today, but also enables you to collaborate with industry-leading companies around the world.

JT Open program

Teamcenter Visualization is built on the de facto standard JT™ visualization technology. JT is the world’s most widely-used data format for product visualization, collaboration and data sharing between PLM software applications and it is supported through an industry initiative known as The JT Open Program. The JT Open Program is an organization driven by global leaders in the PLM industry that have
Features

- Ability to visualize virtually all 2D formats including PDF, BMP, GIF, JPEG, TIFF, CGM, HPGL, I-DEAS, DXF, DWF (6.0 and above) and DWG
- 2D navigation tools, including pan, zoom, rotate, flip, zoom drawing scale, zoom area, seek, fit all and multi-page navigation
- 2D markup tools, including markers, lines, shapes, text, insert image, rubber stamp and GD&T markup
- 2D measurement tools, including linear, radial and angular measurement
- 2D compare
- Basic 3D measurement and cross-sectioning (approximate based on facets)
- Ability to export images to various formats, including JPEG, PNG, BMP, TIFF and HPGL
- Ability to visualize multi-CAD assemblies in JT format from major CAD systems, including NX® software, NX I-deas® software, CATIA, Pro/Engineer, Solid Edge® software, AutoCAD, Inventor, CADDs and SolidWorks
- Ability to visualize product structure
- 3D navigation tools, including rotate, pan, zoom, fit all, zoom area and seek
- 2D and 3D navigator window
- Save session
- Peer-to-peer conferencing
- Integration with Teamcenter® Engineering, Teamcenter® Manufacturing and Teamcenter® Community
- Windows and Unix support

Capabilities

Teamcenter® Visualization Base delivers a wide variety of functional capabilities, including:

- Visualization capabilities that enable users to easily visualize and examine documents, raster images, vector drawings and 3D models
- Advanced performance settings that allow users to visualize even the largest and most complex 3D models that cannot be viewed on conventional CAD systems
- Comprehensive 2D annotation tools that enable users to mark up documents and drawings with comments and other notations that clarify design intent – while storing the markup layers separately in industry-standard CGM format to preserve the integrity of the original data
- GD&T markup tool that manufacturing engineers can use to annotate drawings with symbols that instruct designers in how to add GD&T information to a drawing
- Measurement functionalities that allow users to examine and analyze multiple aspects of 2D drawings
- Comparison tools that users can employ to examine different versions of 2D drawings, identify changes and visually determine the impact of given changes
- Save-session procedures that enable users to capture a work session (for example, at the end of the day) and rapidly resume the session at the user's convenience (for example, at the start of new day)
- Real-time collaboration tools that users can leverage to host interactive online review sessions where design ideas are interactively viewed and shared among globally dispersed peers
- Robust security protections that apply user privileges (for example, assigned by Teamcenter® Engineering and Teamcenter® Enterprise) that determine which PLM users are allowed to save local copies of the product data and which users are entitled to modify this data under their PLM system of choice

Scalable solution that grows with your enterprise

The following Teamcenter® Visualization service levels enable you to scale and extend the scope of your visualization solution to match the physical and functional growth of your enterprise.

Teamcenter® Visualization Base – a powerful visualization solution that provides 2D and 3D visualization functionality, extensive 2D markup tools and 2D investigation tools, including measurement and comparison capabilities. Includes basic 3D viewing plus ability to visualize product structure.

Teamcenter® Visualization Standard – an enterprise 2D/3D view and markup solution that provides advanced 3D visualization functionality, powerful 3D markup tools, 3D measurement and access to advanced product data including product manufacturing information (PMI).

Teamcenter® Visualization Professional – a full-function design review tool with 3D investigation tools, including cross-section, 3D comparison and user-defined coordinate system capabilities that allow users to perform analysis on multi-CAD assemblies – collaboratively – without using a CAD system.

Teamcenter® Visualization Mockup – a sophisticated digital mockup solution used to assemble a complete digital prototype, perform advanced analysis – including static and dynamic clearance analysis on the whole product – and detect issues early. Optional add-ons include, Clearance Database, Publish, Jack (ergonomics), VSA (tolerance analysis), Quality, Animation Creation and Path Planning.

iSeries – an easy to deploy and maintain web browser-based implementation of the Teamcenter® Visualization Base, Standard and Professional service levels.