

PLM Vis

Component technology for collaborative view and markup

fact sheet

Siemens PLM Software

www.siemens.com/plmcomponents

► Summary

PLM Vis is component technology that provides 2D/3D visualization and markup tools that are easily integrated into PLM applications. PLM Vis is particularly applicable to organizations that wish to add visualization to their in-house applications. It provides full 2D/3D visualization and markup capabilities as ActiveX controls and Java beans for extended enterprise collaboration. PLM Vis complements Teamcenter® Visualization software, offering the same core functionality at the same service levels – Base, Standard and Pro.



Benefits

Viewing, interrogation and markup of nearly every popular 2D format as well as JT (3D), NX software, Solid Edge software and Parasolid XT data in a single environment

Flexible architecture – Java beans and ActiveX controls

Rapid development of custom visualization solutions through the use of building blocks

Seamless real-time internet and intranet collaboration

Extends the value and reach of 2D and 3D intellectual property across the enterprise

Scalable solution that addresses each need with a minimal footprint

Broadens the scope of product data through the use of PLM XML

Captures the in-house practices that differentiate your company within a custom PLM Vis application

Extending the reach of intellectual property through the use of custom visualization

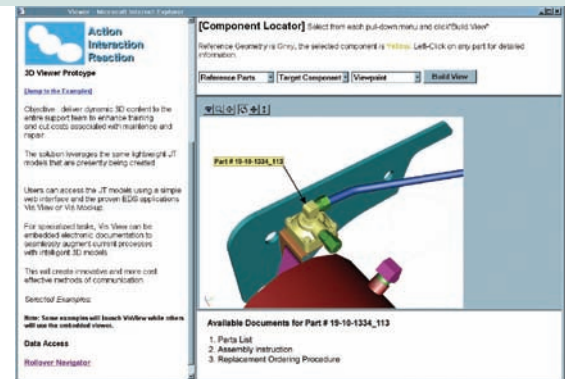
Manufacturing corporations often develop business processes that require the support of embeddable visualization in custom applications. PLM Vis is component functionality. Its design allows customized viewing to be easily added to in-house developed applications, or to web browsers such as Internet Explorer. This customized viewing makes Siemens PLM Software customers more efficient, which cuts costs and saves time.

PLM Vis supports virtually every popular 2D format and many 3D formats including NX™ software, Solid Edge® software, Parasolid® XT, VRML, STL and JT™ data format. JT is the predominant, lightweight visualization format for PLM and is used in production by thousands of companies worldwide. Many companies using JT have successfully deployed PLM Vis to extend the reach of their data in the enterprise.

Scalable product portfolio

PLM Vis Base, PLM Vis Standard and PLM Vis Pro represent successive levels of functionality and a natural upgrade path. At each service level, PLM Vis will interpret visualization data and automatically generate graphical output in a standard pane yet still support custom mouse interrupts, selection and colors. Functionality highlights include:

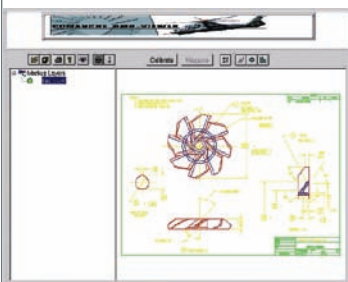
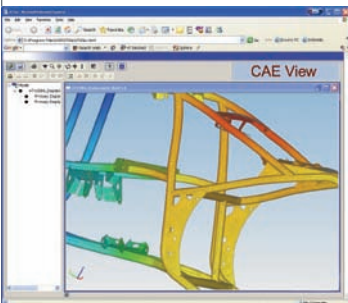
- *PLM Vis Base* provides basic viewing of 3D JT data and view/markup on almost all the standard 2D data formats. Printing as well as viewing is supported and much of the data can be exported in alternative formats
- *PLM Vis Standard* provides the functionality of Base plus intelligent 3D product visualization and navigation enhancements. 3D support is extended from JT to all the Siemens 3D formats as well as VRML and STL. PLM Vis Standard provides advanced tools to help users review and interact with product structure and information assets, including product and manufacturing information (PMI)



About JT

JT is the most widely used 3D visualization format for enabling product visualization and information sharing between PLM software applications. The robust functionality and lightweight qualities of JT technology make it possible to view and share product data worldwide, in real time and throughout all phases of the product lifecycle.

JT data can be very lightweight – holding little more than facet data – or it can be richer and hold associations to the original CAD information, assemblies, product structure, geometry, attributes, meta data and PMI. It supports multiple tessellations and LOD generation.



- *PLM Vis Pro* provides Standard functionality plus assembly editing, accurate 3D measurement, 3D markup and compare, session save and load, animation and motion playback, 3D export to VRML

Even within these service levels there is a finer level of granularity ensuring that each PLM Vis application has as small a footprint as possible. This is especially important with lightweight applications that are downloaded over the web or are massively deployed throughout an enterprise or along a supply chain.

The role of PLM Vis in the JT universe

PLM Vis complements the Teamcenter application suite and the functionality offered by JT Open. PLM Vis is available to the entire PLM community on a level playing field basis. PLM Vis is the perfect fit where component technology is needed to provide view/markup functionality embedded in an application. This is often the case when engineering companies develop custom applications to support their business processes.

Multi-platform support

PLM Vis technology is available as ActiveX controls to take maximum advantage of Windows, and also as Java beans for portability across Windows and UNIX.

High level of abstraction

The level of abstraction of the user interface support in PLM Vis is more a collection of high-level building blocks than a low-level api. It is very easy to construct a complete application in days, not weeks or months. For example, the 3D view control provides the Teamcenter Visualization “fit, zoom-area, seek, rotate, pan, zoom” icons integrated for immediate use.

PLM Vis benefits ISVs as well as end-users

PLM Vis is also designed for independent software vendors (ISVs). PLM Vis enables ISVs to add view markup functionality to their applications, without distracting valuable development resources from the ISV's core competency. The wide variety of data supported provides the opportunity to be part of new workflow solutions.

For more details on JT, the JT community and the applications that support it please visit www.jtopen.com

For more details on PLM Vis, please visit www.plmvis.com

The JT universe

PLM Vis complements Teamcenter and JT Open			
	Teamcenter Visualization, Community Enterprise, Engineering	PLM Vis	JT Open Toolkit
What is it?	Application suite	Component technology	SDK and business model
What does it enable?	Visualization, collaboration and management of data	Visualization and markup integrated in your application	Read/write of JT data, part of PLM Open platform
Availability	End users	Level playing field	Level playing field



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