

PLM Vis – Toolkit service levels for collaborative view and markup

Functions available at Base, Standard and Professional service levels

PLM Vis is component software visualization technology that provides view/markup of 3D and 2D documents. PLM Vis is architected as both ActiveX controls to leverage Microsoft Windows, and as Java Beans for portability. PLM Vis complements Siemens PLM Software's Teamcenter® Visualization applications, providing custom functionality where off-the-shelf products do not match customer requirements.

PLM Vis has three service levels – Base, Standard and Professional – matching the service levels for Teamcenter Visualization applications and is available on Unix and PC platforms. Below is a list of PLM Vis features and the service level at which each feature is available.

Feature	Base	Standard	Professional
2D viewing – Support for all popular 2D formats.	•	•	•
2D document navigation – Zoom, pan, rotate, fit all, seek, pan zoom, zoom scale.	•	•	•
2D viewing preferences	•	•	•
2D export image – Images imported in one format can be exported to a variety of others.	•	•	•
2D image capture – Screen image is copied to the clipboard where it can be pasted to a variety of applications.	•	•	•
2D multi-page control – Support for drawings that contain multiple sheets.	•	•	•
2D print	•	•	•
2D layer tree	•	•	•
2D markup – Drawings can be annotated for further review.	•	•	•

PLM COMPONENTS

PLM Vis – Software toolkit for collaborative view and markup

Feature	Base	Standard	Professional
2D compare – Similarities and differences between drawings are captured, color coded and superimposed on the original drawings for easy identification.	•	•	•
2D measurement – Angles and distances are computed and then can be optionally added to drawings as markup.	•	•	•
2D adjust – Drawings can be scaled, translated and rotated as necessary.	•	•	•
2D viewing (extended file types) – In addition to widely used file formats, a number of non-core file formats are also supported. This functionality is architected to minimize the application footprint.	•	•	•
3D viewing (JT™) – Simple 3D viewing of data in the JT format is supported in the basic product.	•	•	•
3D navigation – Pan, zoom, rotate, fit all, zoom area, seek.	•	•	•
3D viewing preferences	•	•	•
Streaming – The ability to view data before download is complete.	•	•	•
3D viewing (VRML, STL)		•	•
3D part selection		•	•
3D product structure tree – Used by design engineers for managing CAD data.		•	•
3D print – Light source and 3D view parameters can be set to control the print.		•	•
3D rubber band selection		•	•
3D image capture – Arbitrary views of models can be saved as JPEG and GIF images.		•	•
3D markup – Models can be annotated with text, measure information and general comments. Text can be set to lie in the view plane or oriented at an arbitrary angle.	•	•	•
Snapshots – Views can be remembered and thumbnails generated to facilitate easy return to a particular view.	•	•	•
Select part feature (point, vertex, edge, etc.) – Selection can be set to virtually every known entity type.	•	•	•
Advanced views – Advanced view setting and management is architected in separate libraries to facilitate a minimal footprint of PLM Vis applications.	•	•	•
Save/load session files – Ability to manage a state machine that can remember the current view and the current settings.	•	•	•
Read PLM XML – PLM XML adds structure and associativity with data sets.		•	•
PMI (product manufacturing information)		•	•
Dynamic assembly – Used to add organization to a seemingly unconnected set of parts. Dynamic assembly can recreate assembly hierarchies and provide a common foundation in multi-CAD environments.		•	•
3D measurement – Measurements in 3D between faces, edges and vertices can be attached to a model.			•
3D compare – Volumes are compared and their results color-coded and displayed to facilitate understanding.			•

Feature	Base	Standard	Professional
3D properties – Mass properties such as surface area, volume, centroid and 2nd moments of inertia are computed and stored on the model.			•
3D manipulators – Transformation handles can be attached to atomic shapes and volumes for rotating, scaling and translating.			•
Appearance editor – Attributes that control all aspects of a model, scene, and lighting are managed and stored for repeated use.			•
3D part transform – Individual parts of a model can appear to be transformed, producing different effects such as exploded views and general arrangement.			•
3D alignment – Characteristics on parts can be used for alignment and mating conditions.*			•
Animation playback – The ability to replay animations created with Siemens' Teamcenter visualization applications.*			•
Motion playback – The ability to replay animations created with external programs.*			•
Cross section – The ability to generate cross sectional views.			•
3D cross section – The ability to easily generate cross sections at arbitrary orientations. The location of the cross section is controlled by a slider bar.			•
3D export (JT, VRML, PLM XML, session package) – The ability to import the model being viewed as JT, VRML or PLM XML and save the state of the modeling session for later use.			•
3D navigation – Walkthroughs of buildings and other structures. The height of the eye point can be set to simulate what would be seen if a human were walking the structure.			•

PLM Vis supports Windows as well as several Unix-based platforms including Sun, IBM and HP. For more information please visit www.ugs.com/plmvis.

* Java support only

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