

Intergraph SmartPlant® Review 2008

Version 7.0 Release Enhancements

Project Integration and Data Management

Users can now review a composite of projects published from different sources. Merge a PDS and SP3D project in the same viewing session, and then add PDMS, Microstation, AutoCAD and/or mechanical models at the correct scale and location. SPR Publisher converts all of these models for a complete design review with fast loading and display performance.

Selectively load or unload any published version of a project in a single design review. Review any area of a project without exiting SPR. This also lets users visually compare two or more versions of the same PDS project to see any changes over time. Just give each new publish a unique color or transparency to compare their differences. This capability adds a whole new dimension to project design reviews.

Touch any object in the view to see its native attributes created and published by the authoring tool. So touching an object designed in PDS shows all of the PDS data. Touching an object designed in SP3D shows all of the SP3D data. Touching an object designed in PDMS shows all of the PDMS data, even when the projects are reviewed side by side in the same SPR view. Combining the graphics while supporting separate SPR databases for each published plant ensures better data fidelity (completeness, accuracy and integrity) while providing the outstanding performance our customers require. This is a workflow competitive viewers do not provide, which puts SPR ahead of our competition.

Performance

Improvements to memory management and display performance have made a big difference in navigation speed when viewing large projects.

SPR out performs our competitors on every PDS project we have compared. SPR display and motion updates are faster so users will see a noticeable difference in navigation speed. Raytracing is faster and uses less memory. High resolution snapshot is faster. High resolution printing is faster. SAT file (Solid Edge, SolidWorks, Inventor, Pro/E model) conversions are improved.

This release makes it easier for clients to standardize on a single viewer to ensure effective communication for the entire project team. Every engineer, designer, manager, and planner should have SPR on their machine.

NOTE: All 2008 releases require SPLM 2008 (v10), which ships July 2008.

Multiple Format Integration

- Create, manage, and open review sessions that combine model and label data from many different sources, such as Intergraph Plant Design System (PDS), SmartPlant and SmartMarine 3D, Aveva Plant Design Modeling System (PDMS), AutoCAD 2008 and earlier, and ACIS. Note that SPR no longer opens PDMS, AutoCAD, and ACIS models directly. They must be converted to SmartPlant Review projects using SmartPlant Review Publisher.
- Selectively load, unload, add, and remove any sub-set of VUE files in a SVF project during the review session.
- Move, rotate, and/or scale vue files in SVF projects.
- Use with SmartPlant Foundation with larger models and tighter integration with support for right-click menus of SPF commands.

Performance

- Interactively navigate the model faster with new motion-only range rejection (level of detail) options.
- Use larger projects than ever before with improved performance.
- Snapshot and/or print images in perspective or orthographic views, faster (without tiling), using off screen rendering.
- Save smaller and more efficient VUE files from larger projects with improved load and display performance.
- Raytrace larger models, including volume annotations, with improved performance and without the main view being visible.

Display Quality

- Improved display quality and performance with enhanced behavior to dot box, range rejection, stroking tolerance, and near/far clipping planes.
- Display all SP3D/SM3D geometry aspects in any combination.
- Support degrees of transparency in Full Shaded Mode with PDS Data

Ease of Use

- Access the pull-down menu when in full screen mode.
- Find objects with new and improved display and fit options, and modeless next and previous object selection.
- Display measurements and all other coordinate readouts to use any of the many available coordinate formats.
- Use separate configuration files per SP3D/SM3D dataset.

Miscellaneous

- Use with the Microsoft Windows XP64 and the 32-bit Windows Vista Business Client operating systems.
- Use with the Citrix Presentation Server/XenApp Server version 4.5.1.
- Use new API extensions that expose new features.