The efficient administration of product data and therefore the support of engineering processes has become a critical success factor for manufacturing companies today. This also includes the exchange of data between PDM/PLM and CAD systems.

Product information

The SolidWorks integration for Oracle Agile PLM offers SolidWorks users an effective and intuitive integration. Based on the XPLM Integration Platform, the SolidWorks connector offers CAD users an effective integration with Oracle Agile PLM. Data and structures of both CAD and PLM are integrated, allowing for the bi-directional exchange of CAD files and metadata.

Functions and Key Benefits

› **Concurrent Engineering**: The connector is designed to enable multiple designers to work on different portions of the same overall CAD assembly at the same time.

› **Saving to Agile**: creates a Design Structure in Agile to manage all SolidWorks files (parts, assemblies, drawings, etc.) supporting CAD work-in-progress design, and making data available to the rest of the organization, as privileges permit. Several numbering options are available for design objects and parts, with optional renaming of CAD files. Viewable files can be automatically created and attached in PLM along with the native file.

› **Loading from PLM**: Load can be initiated directly from the Agile web client, which then brings up a context-specific Load Preview dialog where the user can select various load options. Files from Agile can be opened in the CAD window or simply transferred to the user’s machine.

› **Update of Properties**: Metadata and classification properties can be exchanged and updated bi-directionally. This enables, for example, the title blocks to be automatically populated. The bi-directional mapping between CAD properties and PLM values is set up using the graphical Mapping Editor, which is common between all XPLM Connectors.
 › **BOM Publishing**: is used to create Agile Product Structure based on CAD Design Structures. Find Numbers from SolidWorks parts lists can be synchronized with the BOM in Agile.

 › **Workspace Management**: offers the creation, setting, deletion, zipping and uploading of individual multi-level workspaces, which correspond to folder structures on the local disk

 › **Template function**: enables the CAD user to create CAD files directly from PLM-based templates. During template creation, the integration creates all necessary PLM objects for the future design in the background and links the CAD file to them. This function provides an easy and productive way to get started working with a PLM-centric workflow.

### System Requirements

 › Oracle PLM Agile 9.3.3, 9.3.4

 › Oracle PLM Agile 9.3.5 or higher

 › SolidWorks 2013 – 2017 (other versions on demand)

XPLM is an Oracle Gold Partner, providing superior CAD and PLM integration solutions for Agile 9 systems. Together with Oracle, XPLM established the “Joint Competency Center for CAD Integrations” (J2CI).

### About XPLM

XPLM is a software company that develops packaged solutions for integrating leading PLM, MCAD, ECAD, SysML, ERP, DMU, MS-Office, publishing and data exchange applications. We are also system integrators and provide services for implementing our product lines. These services range from PLM business process analysis and definition to planning, deployment, data migration, training, product support and operational PLM system support. XPLM customers include large international companies in the automotive, mechanical and plant engineering, electrical engineering, chemicals, pharmaceuticals and aerospace industries.

### XPLM Integration Platform

The XPLM Integration Platform provides users efficient and robust CAx and PDM integrations. The XPLM Integration Platform supports integration with many PDM/PLM systems, CAD systems, ERP systems, Visualization systems, ECAD systems and MS-Office.

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