

SAP PLM Integration for SolidWorks SolidWorks Direct Integration in SAP PLM

Document Management and Material Manage- ment with SAP



With SAP PLM, SAP AG offers the general administration of all documents which are created during the life cycle of a product.

At the same time, CAD Desktop is a tool which provides excellent support for CAD design work especially in the field of 3D.

The close connection with PLM of SAP enables data to become available at an early stage of the design process. Product Lifecycle Management thus already begins with the start of the design work and not at the end of this work through an interface.

The link between SolidWorks and CAD Desktop in the SAP system allows all components which have been designed using the CAD system to be administrated. The following benefits arise:

- Access to CAD data is coordinated through the versioning and status administration so that various users can work on a component at the same time without data being lost or inconsistencies arising (Concurrent Engineering).
- Using examination mechanisms, check-in and check-out assistants prevent inconsistent data contents from being produced and offer solutions if a conflict arises.

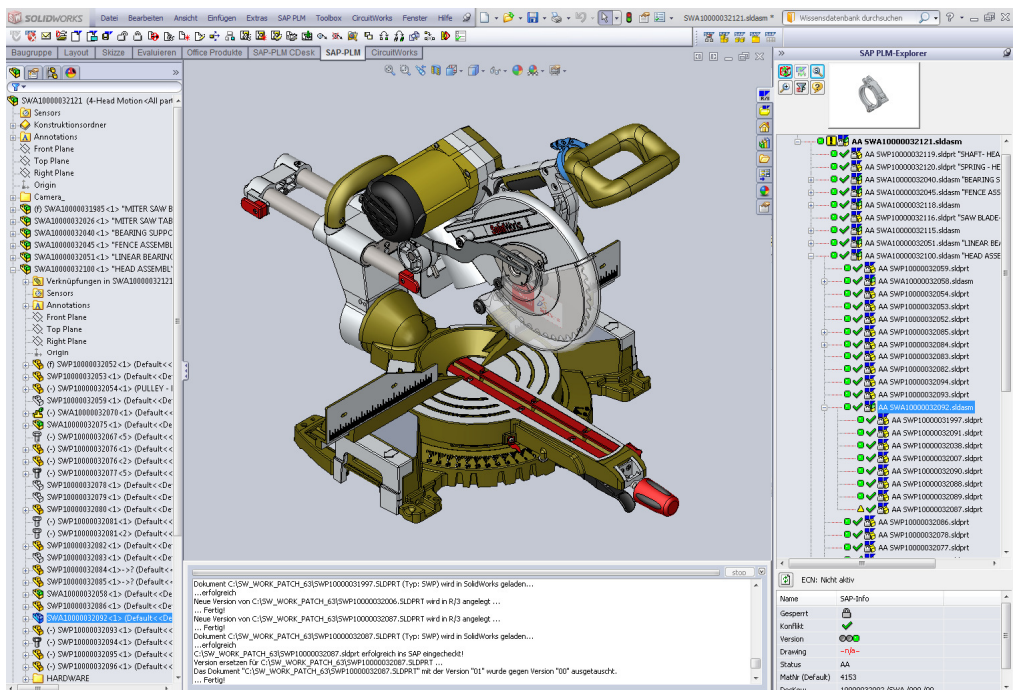


Fig.: SolidWorks
Direct Integration in SAP PLM

Integration with SAP CAD Desktop



To be edited or displayed in SolidWorks, original files belonging together are loaded by the CAD-Desktop direct from the SAP system since the assemblies and the drawings, including their dependent documents, are being administrated as structures in SAP. All authorised users have access to the original documents stored in a central data base. They can thus follow the development process and also make changes. This reduces the number of redundant operations.

Through the integration of the SAP change service, a change history is always available for the document.

Configurable data exchanges between the SAP system and SolidWorks avoid unnecessary multiple data input.

Thus properties of SolidWorks files can be passed on during the creation of the document information records, SAP data can be transferred in the SolidWorks properties and therefore also in the title blocks of the drawings, and document data can be imported during the creation of materials.

Through the support of CAD Desktop functionalities, the mass creation of documents and materials, for example during the import of an assembly, can be easily carried out.

Bill of Materials can be directly generated from the structure view of the assembly. This assures that the design material lists are readily available to all successive procedures, e.g. production, production planning, etc.



Functional overview SAP PLM Integration for SolidWorks



Advantages

- CAD direct integration into SAP PLM
- Avoidance of doubled data collection and securing of continuous release and approval processes throughout the enterprise
- Continuous availability of current drawings, models and view files for other departments, e.g. process planning
- No costs for additional Product Data Management System (PDM), since it is fully assimilated into SAP
- Comfortably operating with SAP out of SolidWorks – the familiar work environment for the designing engineer
- Complete display of the SolidWorks data models in SAP PLM, e.g. configurations, external references, part-groups, mirrored parts, blanked parts
- Easy installation, activation as SolidWorks add on application

Functions (extract)

- Documents, meta data, document originals, document-structure, Bill of Material (BOM) and material lists classification, modification service, search, product structure navigation

Document Management (DMS)

- Automating of routine jobs like creating and updating SAP document info record
- Full support of version control in Tresor or KPRO for all SolidWorks originals
- Full integration of SAP approval and release processes

Document-structure functionality

- Generates and updates SAP document structure out of SolidWorks assembly groups
- "Check-in" and "check-out" of all originals of the assembly group and additional documents
- Automatic locking of documents that are in (other users still have reading access)

Bill of Material and parts lists

- Automated generating of material master in SAP R/3 with information from SolidWorks like weight and volume
- Linking of parts with the associated documents
- Automated deriving of BOM out of SolidWorks structures

Title block supply

- Is done automatically and directly through material master, document info records, history of modification, classification and other information

The supported versions and system requirements are available on
www.cideon-software.com

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more information on
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