

SAP PLM Interface to SOLIDWORKS

Product Data Management with SAP PLM

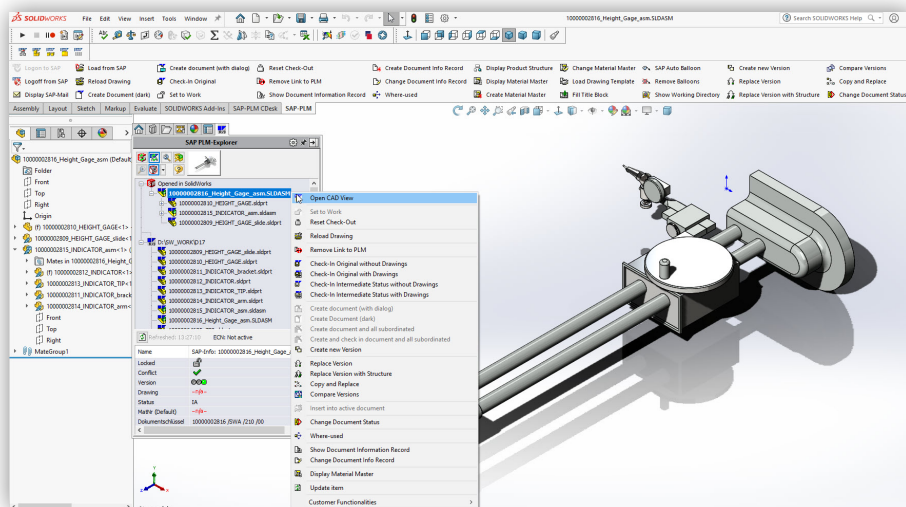
In the early in the product development phase the direct connection of MCAD and ECAD with SAP allows for convenient management of data generated in CAD systems and makes all this information consistently available in the SAP ERP/PLM system to all stakeholders. Users and departments such as procurement, production and manufacturing benefit extensively by having access to this information early on in the process.

SAP SE provides with SAP Product Lifecycle Management (PLM) the option to directly link from CAD engineering to SAP PLM by using integrated management of all information created over the life cycle of a product.

SAP PLM Integration to

As SAP's long-term development partner, CIDEON exclusively develops the SAP PLM integration to SOLIDWORKS. The integration enables the efficient management of all data that is created during the engineering process with SOLIDWORKS in SAP. It makes design data available to the company even at the early stages in the life cycle while keeping the engineers in their familiar design environment.

The link between SOLIDWORKS and the SAP system allows for administration of all components which have been designed. Users have access to CAD data which is coordinated through versioning and status administration with SAP PLM. By that users can work on one component at the same time without data loss by avoiding inconsistencies (concurrent engineering).



This translates into efficient engineering and speeds up the product development process while ensuring timely completion of the design, engineering and downstream tasks.



SAP function menus in SOLIDWORKS

Easy Management of CAD Structures

SOLIDWORKS assemblies, configurations and drawings including all related documents are managed as structures in SAP PLM. This process ensures that appropriate original files are directly linked from SOLIDWORKS to SAP. All authorized users have access to the original documents stored in a central database (one single source of the truth) which allows for company-wide collaboration. Users can track the development process and apply their appropriate changes. This reduces the number of redundant operations, and with the integrated SAP Change Management, a change history is always available for the objects.



PROZESSBERATUNG

ENGINEERING-SOFTWARE

IMPLEMENTIERUNG

GLOBAL SUPPORT

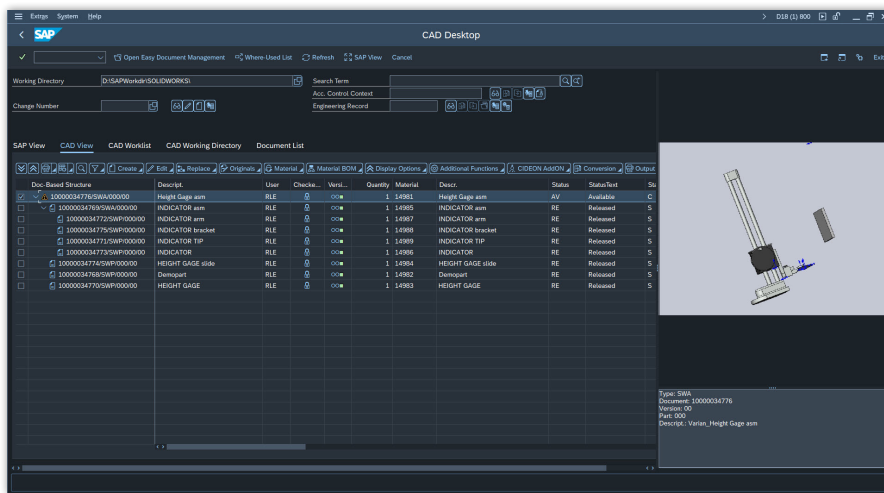
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SAP PLM Interface to SOLIDWORKS

Highlights

Ideal interface for SOLIDWORKS users

- Comfortably operating with SAP directly in SOLIDWORKS
- Easy UI and navigation with a comprehensive overview of all required SAP information
- Direct access to SAP objects, e.g., Documents, Material Master, Bill of Material, Change Master
- Integrated Viewing



SAP CAD Desktop with SOLIDWORKS assembly structure

Simplified product development processes

- Access to design data is coordinated through versioning so multiple users can easily work on assemblies simultaneously at any time
- Avoidance of doubled data collection
- Continuous release and approval processes
- Current drawings, models and view files (other departments) are available at any time
- Direct operations from SOLIDWORKS e.g., create SAP Documents, Material Masters, BOMs, etc.
- SAP object authorizations protect data from unauthorized access

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Functional Overview

Document Management System (DMS)

- Automated routine activities, such as creating and updating SAP Document Info Records (DIR)
- Comprehensive version control functionality in DMS, including digital signature
- Content server for all SOLIDWORKS files and other formats
- Storing of all related CAD & non-CAD files in SAP

Document structure function

Generate and update SAP document structures from SOLIDWORKS assemblies

- Check-In / Check-Out of all assembly original/additional files
- Block editing of checked-out documents

Text field maintenance

- Automatically via Material Master, DIR, change history, classification and other SAP informations

Parts lists and BOMs

- Automatic generation of SAP Material Masters using information from SOLIDWORKS, e.g., Properties
- Assignment of parts to associated documents
- Automatic derivation of SOLIDWORKS parts lists

Search capabilities

- Search by match-code, object links, where-used reports, classification, queries or in folder structures, assemblies, BOMs,...
- Search result as preview or list with filtering in the columns