

TECHNICAL SPECIFICATION: WINDCHILL PDMLINK – SAP INTEGRATION (IF-PDMS)

ADDITIONAL MODULES FOR INTEGRATION

PRO/INTRALINK-SAP R/3 BATCH (IF-PSB)

- Using IF-PSB it is possible to migrate or synchronize masses of meta data in both Windchill PDMLink™ and SAP without user interaction. IF-PSB is used to prepare existing data in both systems for a proper use of the integration. For example: all released drawings can be published to SAP automatically.

RELEASE AND PLOT ENGINE (IF-RPE)

- Automatic creation of viewing files from Pro/ENGINEER™ models and drawings in batch mode
- Call release and plotengine out of Windchill PDMLink™ or SAP R/3®
- Configurable output formats like HPGL, TIFF, PDF and others
- Support of multiple drawing sheets

- Configurable control of Pro/ENGINEER™ parameters before viewing file creation
- The accessing to – and the updating of – SAP parameters
- The automatic creation and check in of created viewing files
- The synchronous release of objects in Windchill PDMLink™ and SAP R/3®
- Automatic notification by e-mail
- The stamping of additional information on drawings

HARDWARE PLATFORM AND OPERATING SYSTEM

The Windchill PDMLink™-SAP integration runs in the context of Windchill PDM-Link™. Regarding the operating system the same requirements shall apply.

TECHNICAL REQUIREMENTS FOR SAP COMMUNICATION

- TCP/IP link between Windchill PDMLink™ server and SAP R/3® application server or SAP gateway.

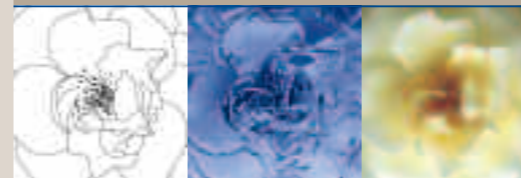
SAP SERVER VERSION/RELEASE

- SAP R/3® Version 4.6 C or higher (BAPI Technology)

TECHNICAL REQUIREMENTS WINDCHILL PDMLINK

- Windchill PDMLink™ Version 8.0 or higher

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- > INTEGRATION OF WINDCHILL PDMLINK™ AND SAP R/3®
- > BIDIRECTIONAL DATA EXCHANGE
- > EASY-TO-USE MENU DRIVEN CONTROL
- > ADAPTABLE TO SPECIAL CUSTOMER WORKFLOW
- > AVOIDS REDUNDANT DATA INPUT
- > HIGH INTEGRATION DEPTH THANKS TO:
 - DOCUMENT MANAGEMENT
 - MATERIAL MASTER
 - BILL OF MATERIAL (BOM)
 - CHANGE MANAGEMENT
 - CLASSIFICATION
- > SYNCHRONISATION OF RELEASE PROCEDURE
- > SUPPORTS FOLLOWING WINDCHILL PDMLINK™ FUNCTIONS
 - PRODUCT STRUCTURE (WTPART)
 - CHANGE MANAGEMENT
 - WORKFLOW
- > AUTOMATIC CHECK IN OF VIEWING FORMATS TO SAP R/3®
- > BASED ON MODERN STANDARD TECHNOLOGIES LIKE JAVA®, BAPI®, RFC® AND WINDCHILL® API



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THE OBJECTIVE

- Many companies producing complex products now use a powerful 3D system like Pro/ENGINEER™ for development. These companies need a good tool to manage models and drawings safely. In addition to this it is vital to manage the engineering and product data in a PDM system.
- When using SAP as an ERP system it is necessary to publish the product data and the product structure stored in PDM to the SAP system and to keep these data synchronized between both systems all the time. Development changes have to be updated in SAP on a regular basis thus ensuring reliable production and procurement processes.
- In addition to this departments such as production, procurement or sales need to view released drawings and models directly in SAP.
- Both the release process and the change process have to be established spanning multiple systems and sites.

WINDCHILL PDMLINK AS A PLATFORM FOR ENGINEERING

- Windchill PDMLink™ is the perfect tool for the management of product and engineering data. Using Windchill PDMLink™ it is possible to define and manage the whole product structure consisting of assemblies, parts, CAD documents and other technical documents.
- In addition to this Windchill PDMLink™ is equipped with a tight interface to Pro/ENGINEER™ and includes the best in class management for Pro/ENGINEER™ models and drawings. Via Windchill PDMLink™ the consistency of Pro/ENGINEER™ structures are checked permanently. Besides Pro/ENGINEER™ other CAD systems can be integrated using available adapters.

- The releasing of models and drawings is controlled by release levels. The features for change management help to control the engineering change process.
- Based on internet technologies Windchill PDMLink™ is designed to support the concurrent engineering and collaboration of engineers at different sites.

WINDCHILL PDMLINK – SAP R/3 INTEGRATION FOR COMPANY-WIDE PRODUCT LIFECYCLE MANAGEMENT

- The Windchill PDMLink™-SAP R/3® integration enables a seamless implementation of PLM processes based on both Windchill PDMLink™ and SAP.
- The integration ensures regular synchronization of sensitive data between Windchill PDMLink™ and SAP.
- For relevant CAD documents a corresponding document is created in SAP automatically or on demand to view models and drawings in SAP.
- For logistically relevant assemblies and parts a linked material master can be created in SAP.
- The model structure is passed as bill of materials to SAP.
- The integration can be controlled easily by using menus and events in Windchill PDMLink™.
- Release and change processes can be established that span multiple systems.
- The software architecture allows a flexible and cost-efficient customizing of special customer workflows.

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STANDARD FUNCTIONS SAP INTEGRATION

SUPPORTED SAP R/3® OBJECTS

- Document master
- Material master
- Bill of materials
- Change master
- Bill of documents
- Content files

WINDCHILL PDMLINK™

- Product
- Part
- CAD document
- Other documents

SAP DOCUMENT MANAGEMENT FUNCTIONS

- Create documents
- Change documents
- Change document status
- Change with change number
- Create, delete object link
- Create, change bill of documents
- Document hierarchy
- Create new versions
- Read status report
- Check in/Check out files from Vault or Kpro
- Create revisions
- Classification

SAP MATERIAL MASTER FUNCTIONS

- Create, change material master
- Create standard views
- Classification
- Create, delete object link
- Create change long text
- Create material revision
- Assign material master

SAP BILL OF MATERIALS FUNCTIONS

- Create, change bill of materials
- Internal numbering of positions
- External numbering of positions
- Change BOM with change master

FUNCTIONS SAP CHANGE MANAGEMENT

- Create, change change request
- Create, change change master
- Classification of change master

WINDCHILL PDMLINK™ FUNCTIONS

- Controlling the integration from Windchill PDMLink™
 - SAP workspace menu
 - Object action list
- Event driven actions
 - Attribute check at check in
 - Promote release level
 - Create new version
 - Release change request
 - A couple of other events can be used

- Features in Windchill PDMLink™ workspace
 - Read system attributes
 - Read/Write user defined attributes
- Integration of change management
 - Synchronize Windchill PDMLink™ change request with change request in SAP
 - Create Windchill PDMLink™ change notification according to change order or change master in SAP
- Other functions in Windchill PDMLink™
 - Automatic renaming of CAD documents
 - Block check in
 - Generate warning and error messages using Windchill PDMLink™ standard error report
 - Generate messages in status line

ADDITIONAL SAP FUNCTIONS

- User defined BAPIs or ABAPs can be used and integrated on request

