> INTERFACE FOR WINDCHILL PDMLINK™ AND SAP®
> BIDIRECTIONAL DATA EXCHANGE
> EASY-TO-USE MENU DRIVEN CONTROL
> AVOIDING OF REDUNDANT DATA INPUT
> HIGH INTEGRATION DEPTH THANKS TO CONSIDERATION OF FUNCTIONS:
  • DOCUMENT MANAGEMENT
  • MATERIAL MASTER
  • BILL OF MATERIAL (BOM)
  • CHANGE MANAGEMENT
  • CLASSIFICATION
> SYNCHRONISATION OF RELEASE PROCEDURE
> SUPPORTS FOLLOWING WINDCHILL PDMLINK™ FUNCTIONS
  • CAD DOCUMENTS
  • OTHER DOCUMENTS (WTDOCUMENTS)
  • PRODUCT STRUCTURE (WTPART)
  • CHANGE MANAGEMENT
  • WORKFLOW
> AUTOMATIC CHECK IN OF VIEWING FORMATS TO SAP® USING RELEASE ENGINE
> ADAPTABLE TO SPECIAL CUSTOMER WORKFLOW
> STANDARDIZED CONFIGURABLE WORKFLOW
THE OBJECTIVE

- Many companies producing complex products now use a powerful 3D system like Creo Elements/Pro™ 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 PRODUCT DEVELOPMENT

- 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 Creo Elements/Pro™ and includes the best in class management for Creo Elements/Pro™ models and drawings. Via Windchill PDMLink™ the consistency of Creo Elements/Pro™ structures is checked permanently. Aside from Creo Elements/Pro™ 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 INTERFACE FOR COMPANY-WIDE PRODUCT DATA MANAGEMENT

- The Windchill PDMLink™-SAP® interface enables a seamless implementation of PLM processes based on both Windchill PDMLink™ and SAP.

- The interface ensures regular synchronization of sensitive data between Windchill PDMLink™ and SAP.

- For logistically relevant CAD models and Windchill parts a material master can be linked or created in SAP.

- For relevant CAD documents a corresponding document is created in SAP automatically or on demand to enable viewing of models and drawings in SAP.

- The model structure is passed as bill of materials to SAP. Upon changes of the structure in PDMLink it is possible to synchronize the related BOM in SAP.

- The interface can be controlled easily by using menus and events in Windchill PDMLink™.

- Release and change processes can be established that span multiple systems.

- The interface is configurable and allows a flexible and cost-efficient customizing of special customer workflows.
TECHNICAL SPECIFICATION: WINDCHILL PDMLINK – SAP INTERFACE (IF-PDMS)

STANDARD FUNCTIONS SAP INTERFACE

SUPPORTED SAP® 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
- Link Material Master

SAP BILL OF MATERIAL FUNCTIONS
- Create, change Bill of Materials
- Item types L, N
- Variable size items
- Text items
- Synchronize item numbers

FUNCTIONS SAP CHANGE MANAGEMENT
- Create, change Change Master
- Activate / release Change Master
- Change Document, Material Master, BOM with Change Master

WINDCHILL PDMLINK™ FUNCTIONS
- Controlling the interface from Windchill PDMLink™
  - SAP workspace menu
  - Object action list
  - Event driven actions
    - Attribute check at check in
    - Promote release level
    - Create new versions
- Release change notice
- 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 Notice with Change Master 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 and WTParts
  - Interrupt check in
  - Generate warning and error messages using Windchill PDMLink™ Eventmanager

ADDITIONAL SAP FUNCTIONS
- User defined BAPIs or ABAPs can be used and integrated on request
TECHNICAL SPECIFICATION:
WINDCHILL PDMLINK – SAP INTEGRATION (IFCONNEX™ FOR SAP)

LINK FOR MULTIPLE SYSTEMS
The interface is designed to link several SAP systems to one Windchill PDMLink System.

ADDITIONAL MODULES FOR INTEGRATION
IFConneX RELEASE ENGINE (IF-RE)
• Automatic creation of viewing and exchange formats from Creo Elements/Pro™ models and drawings in background process
• Call Release Engine out of Windchill PDMLink™ or SAP®
• Configurable output formats like HPGL, TIFF, PDF, DXF, STEP, IGES
• Support of multiple drawing sheets
• Read, Write SAP relevant Creo Elements/Pro™ Parameters
• Access to – and Update of – SAP parameters
• Automatic creation and check in of created viewing files

• Bidirectional synchronization of release-process between Windchill PDMLink™ and SAP®
• Automatic notification by e-mail
• Stamping of additional information on drawings

NUMBER GENERATOR (IF-NG)
• Automatic generation of numbers for parts and documents
• Multiple number generators can be defined
• Context sensitive number generation
• Generation of classified numbers

OPERATING SYSTEM
The Windchill PDMLink™-SAP interface runs in the context of Windchill PDMLink™. Regarding the operating system the same requirements shall apply.

TECHNICAL REQUIREMENTS FOR SAP
COMMUNICATION
• TCP/IP connection between Windchill PDMLink™ server and SAP® application server or SAP gateway.

SAP SERVER VERSION/RELEASE
• SAP® Version 4.7 or higher (BAPI Technology)

TECHNICAL REQUIREMENTS WINDCHILL PDMLINK
• Windchill PDMLink™ Version 9.1 or higher