

TECHNICAL INFORMATION IFConneX FOR SAP®

COUPLING OF MULTIPLE SAP® SYSTEMS

The interface makes it possible to connect multiple SAP® systems to one PTC Windchill® system.

OPERATING SYSTEM

The PTC Windchill - SAP interface is installed in the context of PTC Windchill®. The operating system conforms to the specifications for PTC Windchill®.

TECHNICAL REQUIREMENTS

SAP®

- Remote Function Call (RFC)
- PI-Technology SAP NetWeaver from version 7.1

SAP Server Version / Release

- SAP® from version 4.7
- SAP® ERP from version 6.0
- SAP S/4HANA

PTC Windchill®

- From version 11

ADDITIONAL SOFTWARE FOR THE INTERFACE

IFConneX Release Engine (IFRE)

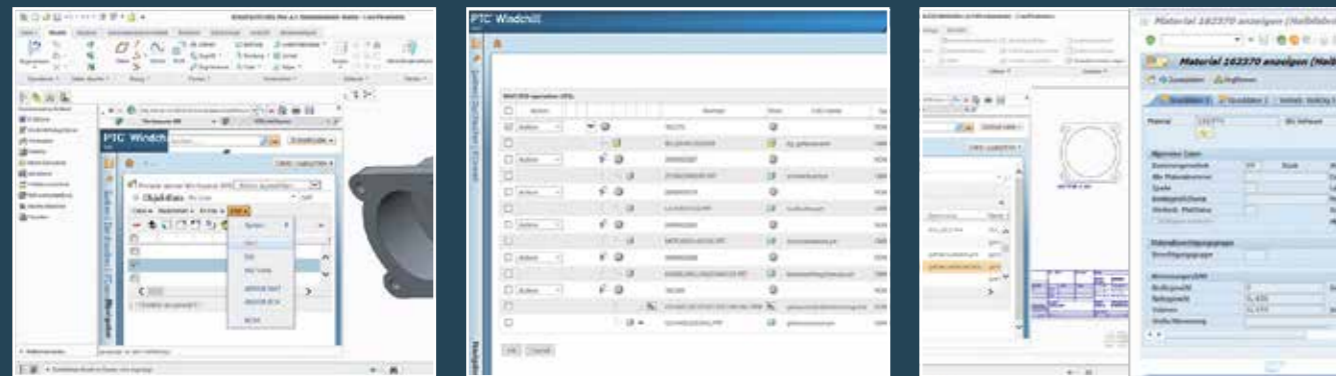
Automated generation of visualization or exchange formats from PTC Creo® Parametric models and drawings in the background

- Calls to the Release Engine from PTC Windchill® or SAP®
- Extraction of the neutral formats (HPGL, TIFF, PDF, DXF, STEP, IGES) is configurable
- Support for multiple drawing sheets
- Stamping of PDF and TIF
- Application of a digital signature
- Reading or updating of PTC Creo® Parametric parameters that are relevant to SAP®
- Automated check-in of generated neutral formats in SAP®
- Bidirectional synchronization of the release process in PTC Windchill® and SAP®
- Automated notification via e-mail
- Stamping of additional information on drawings

Number generator (IFRE-NG)

- Automated assignment of part and document numbers
- Setup of multiple number generators
- Context-related number assignment
- Support for classifying number keys

Further modules of the Release Engine can be found in the Release Engine flyer.



SAP® Certified
Integration with SAP Applications

PTC® PartnerAdvantage

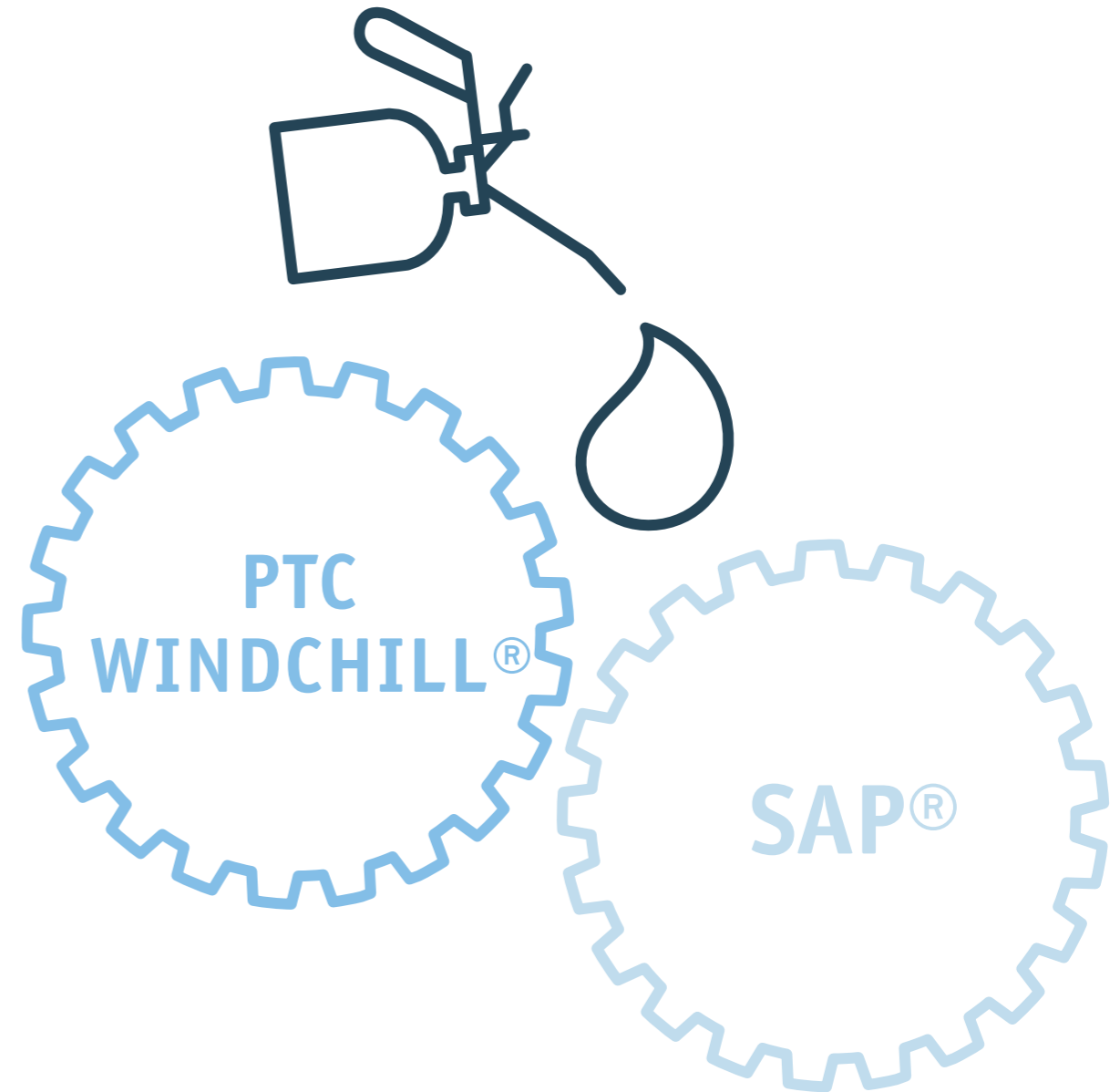
GOLD

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Enterprise | Application | Integration

Innoface is worldwide one of the leading providers of interfaces that link PTC Windchill® with ERP systems. Our solutions ensure a reliable flow of information between construction and logistics.



IFConneX FOR SAP®

PTC WINDCHILL-SAP-INTERFACE



IFConneX FOR SAP® CONNECTS PTC WINDCHILL® WITH SAP®

MANUAL DATA ENTRY IS OBSOLETE

- Product data is the capital of every company. But there are still companies that synchronize their data manually using isolated solutions.
 - They waste time inputting the same data multiple times at various points across the system, and this results in increased coordinating efforts between departments.
 - Identical parts are sometimes not recognized due to deviant manual entries, which can lead to losses in purchasing.
 - Ambiguous data can lead to purchasing and production errors.
- That is why effective and networked data management systems are indispensable for production companies.

EFFECTIVE DATA MANAGEMENT WITH PTC WINDCHILL® AS PDM-SYSTEM AND SAP® AS ERP-SYSTEM

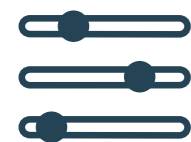
- Only a product data management system (PDM) can efficiently process and manage complex technical data in the field of design engineering and development.
- One of the best-in-class existing solutions, with its versatile CAX interfaces, is PTC Windchill® from the maker of the CAD system PTC Creo®. The link-up of PTC Creo®, in particular, is unbeatable.
- For logistics and financial data, a high-performance ERP system is required. Among these ERP systems, SAP® is the market leader. Upper midsize firms as well as corporations use SAP® in every area of business. The comprehensive range of functionality allows every department in the company to work together.

BETWEEN TWO WORLDS

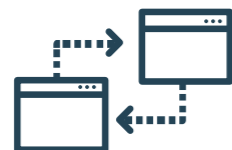
- Isolated operation of the two systems, SAP® and PTC Windchill®, is not enough to guarantee a smooth flow of data for optimum process support in the company. The two systems must be closely integrated.
- The product structure must be displayed in parallel on both systems and kept up to date.
- Changes must be maintained in a timely manner in both systems, to be able to reliably produce and plan.
- Release and change processes for CAD drawings and CAD models must be supported across systems and sites.
- Departments such as purchasing, production and marketing need to visualize released CAD data directly in SAP®.

SYNCHRONIZED DATA ACROSS DEPARTMENTS AND SYSTEMS THANKS TO IFCONNEX

- The IFConneX interface for SAP® allows seamless, cross-system modeling of engineering processes in the PTC Windchill® and SAP® systems.
- It is easy to operate using menus in PTC Windchill®. Interface functions can also be event-driven or called from within the PTC Windchill® workflow.
- By pressing a button, relevant parts in PTC Windchill® can be added as material master in SAP® or linked to existing material masters.
- For each CAD document relevant to SAP®, a SAP document is automatically generated through which SAP users can directly visualize models and drawings.
- The part structure can be automatically transferred to SAP® as a bill of material. If changes are made to the structure, this SAP® bill of material can be automatically updated in PTC Windchill®.
- This integration means that it is possible to implement a cross-system release and change process.
- IFConneX for SAP® is configurable and permits flexible and efficient adaptation to customer-specific data and processes.



Controllable



Bidirectional Synchronization



Configurable



Real-time Operation

TECHNICAL INFORMATION IFConneX FOR SAP®

STANDARD FUNCTIONS OF THE SAP® INTERFACE

Supported objects in SAP®

- Document info record
- Material master record
- Bill of material
- Change master record
- Document structure
- Equipment
- Functional location

In PTC Windchill®

- Product
- Part
- Part structure
- CAD document
- Other documents
- Change request
- Change notice
- Promotion Request
- Baseline

SAP Document-management functions

- Creation of documents
- Changes to documents
- Set document status
- Change with change number
- Creation, read-out and deletion of object links
- Create, change document structures
- Document hierarchy
- Create new versions
- Read out status log
- Check-in / check-out an original (KPRO or other SAP archive)
- Generate a revision
- Classification
- Set permissions (ACLs)

SAP Material-master-record functions

- Create material master record
- Change material master record
- Maintenance of
 - Standard views and fields
 - Plant views
 - Classification
 - Object link
 - Basic data text
- Create a material revision
- Link a PTC Windchill-part with a material master record

SAP Bill-of-material functions

- Create bill of material in SAP®
- Change bill of material
- Usage, alternative
- Creation of plant views
- Position types L, N
- Variable-size items
- Text item
- Document item
- Synchronization of item numbers

SAP Change-management functions

- Create change master record
- Change the change master record
- Change document, material master record, bill of material with reference to change master record
- Create, change object management records
- Release of change master record

ADDITIONAL SAP® FUNCTIONS

User functions

- Additional user-defined BAPIs or function modules can be integrated on request.

PTC Windchill® Functionality

- Control options from PTC Windchill
 - SAP workspace menu
 - Action menu on the object
 - Display of SAP menu possible in other views
- Event-driven actions from PTC Windchill®
 - Attribute inspection at check-in
 - Change-management
 - Increase the life cycle
 - Generate new versions
 - Configurable initialization of attributes for save as event
 - Inspection of the number and/or file name from the rename-event
 - Create or release the change notification
 - A range of other events can be used
- Features in the PTC Windchill Workspace
 - Read system attributes
 - Read user-defined attributes
 - Write user-defined attributes
- Integration change management
 - Create change notice for SAP change master record
- Further functions in PTC Windchill®
 - Automatic renaming of CAD documents and parts according to corporate guidelines
 - Cancellation of an event, e.g. check-in
 - Feedback via the event manager

