

Infor LN - PLM for Discrete **INFOTEAM 2025**

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Infor - PLM for Discrete - Content

About Mazeppa Group

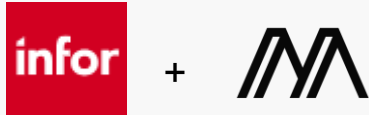
1. Why PLM?
2. PLM Solution & Value behind
 - History
 - PLM Basics
 - Business Processes Management
 - LN ERP System Integration
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3. PLM for Discrete – CAD Connectors
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About Mazeppa Group...



Mazeppa story

We specialize in ERP manufacturing, project control, and field service. Our niche industries are discrete mechanical production, electronics and components production, aerospace and defense, marine industry, and mobile solutions.



Mazeppa team and competences

Mazeppa is a team of skilled consultants. Many comes with deep business background.

Mazeppa team has around 35 members and wide network of externals.

LN specific competences

- Project management
- Solution Architecture
- Programming, extensibility and other technical competences
- LN specific modules
 - Logistics
 - Manufacturing and Services
 - TP/PCS Project
 - Quality
 - Finance
 - PLM





Industries and customers

Mazeppa has been focusing on industrial customers running mechanical production and related processes.

Mazeppa provide solid services and believes in long-term relationships.



Glamox	Kongsberg	EFD	Palfinger	Mustad	Vestdavit
electronics	defense	equipment	Marine equip.	Production/logis	Marine equip.
2000	1999	2006	2011	2008	2022
Global manufacturing and distribution network of electronic products and components	Manufacturing of military equipment	Manufacturing of induction heating machinery for automotive and other industries	Manufacturing of life saving equipment, sales and global Field Service support incl. Installed base	Fish-hook manufacturer and global distribution (webshop integration)	Manufacturing of marine davits (cranes)



1. Why PLM?

PLM

Product Lifecycle Management

Product lifecycle management is the process of managing the complete journey of a product from initial idea thru development, production, service, and disposal.

PLM means managing everything involved with a product from cradle to grave.

Where does it start?

Who does the development?

How to transfer the Product from CAD to Production and Customer?

How to ensure smooth Production and Service?

Where it all ends?

2. Infor - PLM for Discrete – Why?

WHY PLM?

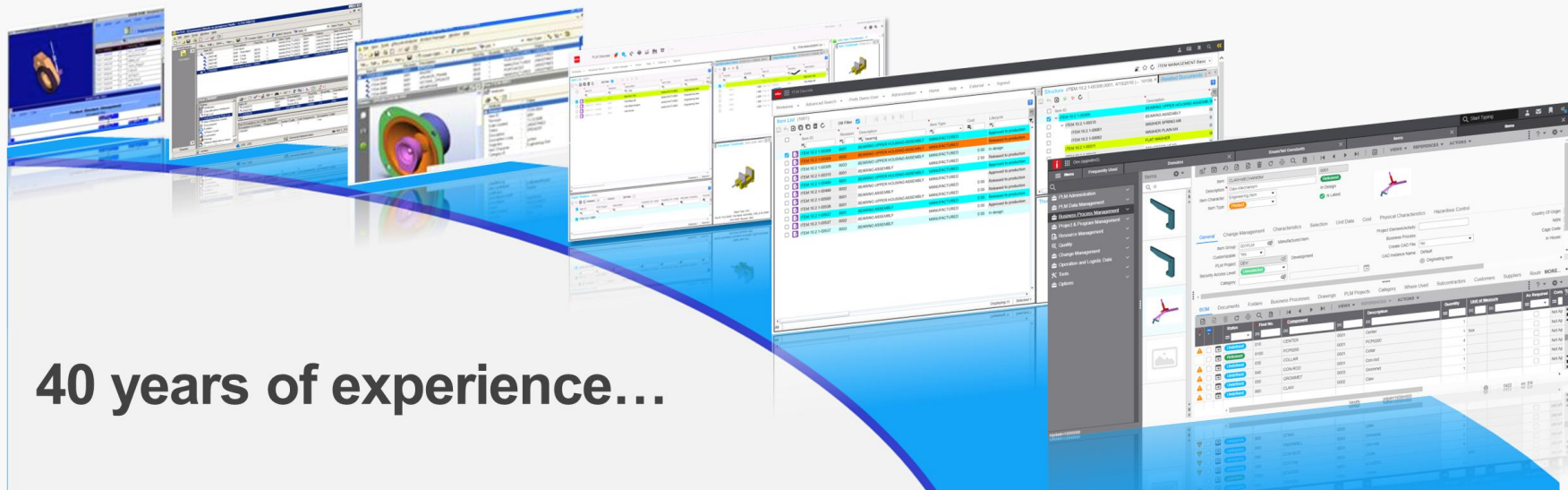
- PRODUCT DEVELOPMENT UNDER CONTROL, STANDARDIZED
- TRUSTFULL DOCUMENTATION AVAILABLE FOR ALL EMPLOYEES
- KNOWLEDGE OF WHAT WAS DELIVERED (which revision)
- PROTECT INTELECTUAL PROPERTY
- REDUCE R&D LEAD-TIME
- REDUCE COST OF CLAIMS
- CHANGES UNDER CONTROL (MINIMIZE RISKS)
- REDUCE STOCK LEVEL BY MINIMIZING NUMBER OF ITEMS
- ...

2. PLM Solution & Value behind

1. Infor PLM for Discrete - History

Infor PLM for Discrete

A new Product with Experience



40 years of experience...

1. Infor PLM for Discrete – Today



Total PLM Cloud customers

45+



Fast Time-To-Market

15 months



Customer locations

**45% NA, 45% EMEA,
10% APAC**



User size
average customer

10 - 900



Users in the cloud
2,784 users live in production

3,200+



New feature enhancements
New features in the last 2 years

99

2. Infor PLM for Discrete – Solution Model

INFOR PLM FOR DISCRETE

Core Solution Model

Main Functions



Document & Folder management



Item & BoM management



Business process management



Data analyses & reporting



Product configuration management



Management of engineering data



Production data management



Project data management

Support Functions



2/3D File visualization



Collaboration



IDM & ERP integration



CAD & MS-Office integration

Shared LN Functions



Change management



Quality management



Project & Program management

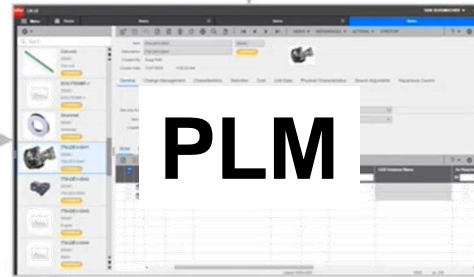
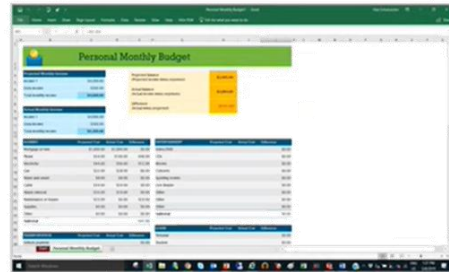


Hours accounting & Expense management

2. Infor PLM for Discrete - Integrations & Sharing Product Data

INFOR PLM FOR DISCRETE

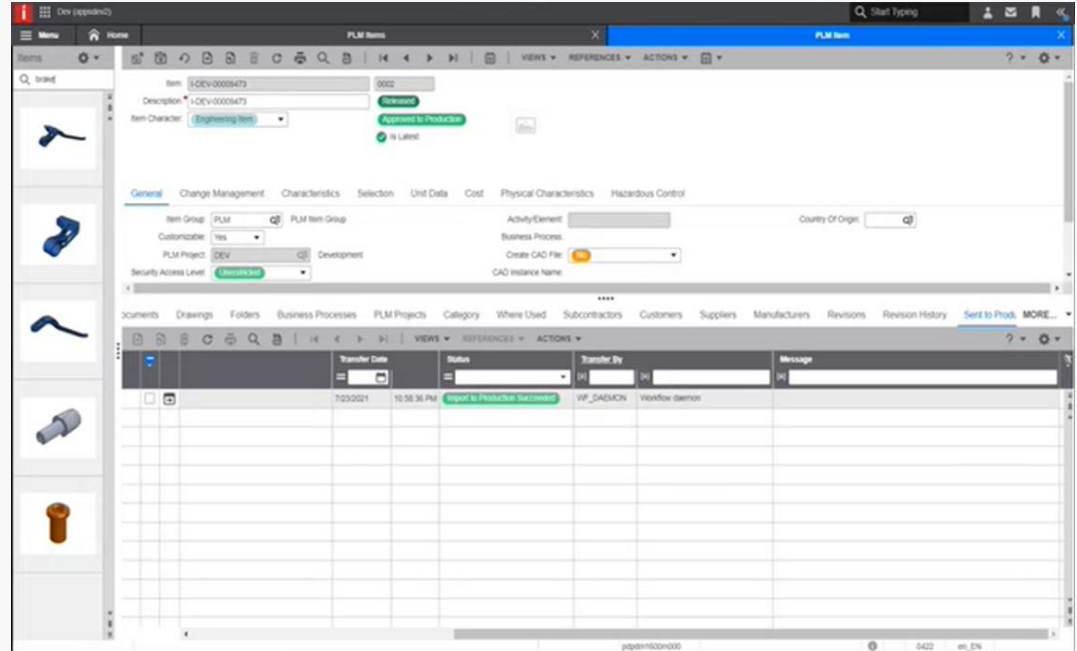
Integrations Sharing Product Data



2. Infor PLM for Discrete - Main functionality

■ PLM Basics

- PLM Projects
- File, Document & Item management
- Revision control management
- Masks system for Items / Documents / ...
- Folders management
- Classification for Items & Documents
- PLM Users & Roles administration
- CAD & Office Integration
- LN & IOS Integration
- PLM Export & Import management
- Business Process Management



2. Infor PLM for Discrete – Added Value

Added Value:

- ✓ Manage **Products requirements** to initiate the Design work
- ✓ **Revisions control** keep the Product development under control and standardized
- ✓ **PLM Workflows** ensure Tasks and Approvals are clearly defined + automatized
- ✓ CAD Data stored on **Cloud or OnPrem** (local) server or both available to all who need them
- ✓ Thumbnails and multi-level views provide fast and easy understanding of **Product structure**
- ✓ **PLM Projects** allows secure development respecting defined User access and Roles
- ✓ **PLM Task** can be initiated from Quality or Project module (corrective actions)
- ✓ Documents and Items **Classifications** allows easy searching by Attributes
- ✓ **Folders and Documents** can contain all type of supporting files (pdf, stp, jpg, ...)
- ✓ **PLM Export** use predefined sets (for suppliers, customers, all files, ...)
- ✓ **Business Process Workflow** can cover all Product Lifecycle processes

2. Infor PLM for Discrete – Business Process Management

■ Business Processes Management

- Business Process WorkFlow Definition
- Organize by PLM Project or Type (EO, ECR, ECN, ...)
- WorkFlow Template selection
- Linking PLM objects (Items, Documents)
- Process comments & approvals (Tasks)
- Full process history (who, what, when)
- Dispatch and Launch functionality from CAD or PLM
- Email notifications

The screenshot displays the Infor PLM Business Process Management interface, which is divided into several key sections:

- Business Process Overview:** This top section provides a high-level view of process status. It includes a 'General' tab with filters for PLM Project (DEV), Business Process Type (ECN), and Originator (HSC/MAC). A 'Process' summary shows counts for OPEN (4), IN PROGRESS (3), SUSPENDED (4), FULLY REJECTED (1), COMPLETED (10), and FAILED TASKS (0). A 'Tasks' summary shows counts for PAST DUE (2), TO DO (0), BACKLOG (4), FUTURE TASKS (0), and FAILED TASKS (0). A bar chart on the right visualizes the 'No. of Processes By Status'.
- Business Process Overview Table:** A detailed table listing individual processes. The table has columns for Priority, Status, Business Process Type, Business Process, Description, Responsible User, PLM Project, and Workflow Template. The data includes various ECN processes such as 'Storage Change', 'Change disk per ECN 10000276', and 'Release of Master Cylinder'.
- Workflow Template Management:** A table listing workflow templates. It includes columns for Workflow ID, Description, Business Process, Status, Originator, Date Created, and Electronic Sign. The table shows templates like 'Submit for approval', 'Document Approval', and 'New Product Request'.
- Workflow Editor:** A visual editor for defining workflow steps. The diagram shows a sequence of steps: 'Approve Request' (with a person icon), 'Design', 'Review', 'Purchase verify', 'Design', 'Production', and 'To Do' (with a speech bubble icon).
- STEP DETAILS:** A section at the bottom for viewing detailed messages and notifications, showing a count of 0 messages.

2. Infor PLM for Discrete – BP Management – Added Value

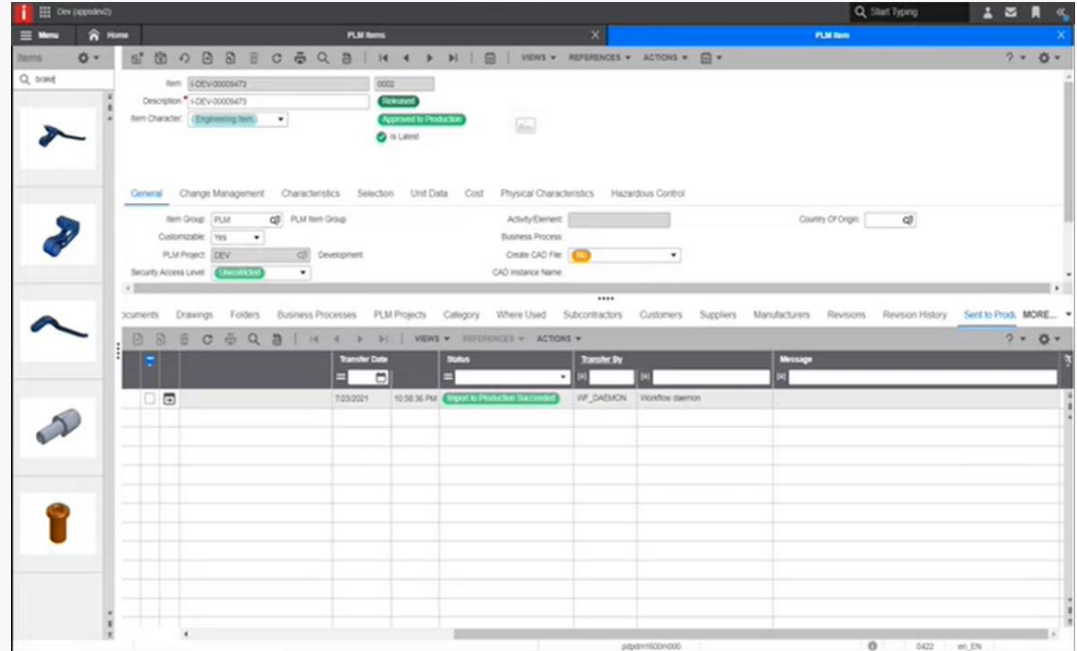
Added Value:

- ✓ Manage **Product development** by defined Workflows
- ✓ Employees receives **Tasks** and notifications
- ✓ Integrated with **ION workflow**
- ✓ Automated steps in the Workflows (Item release, transfer to LN / IDM, notifications, ...)
- ✓ Full **Process history** with Electronic Signatures
- ✓ **Link to PLM Items, Documents and Folders** provides full details for decision

2. Infor - PLM for Discrete – ERP SYSTEM INTEGRATION

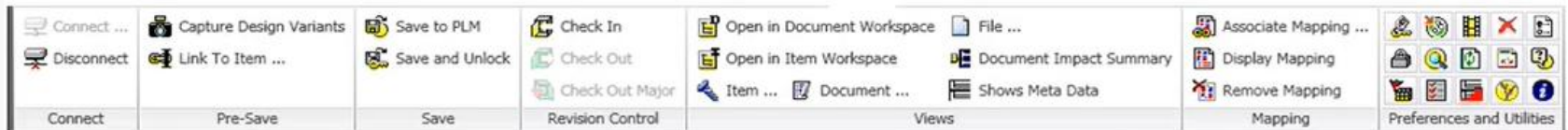
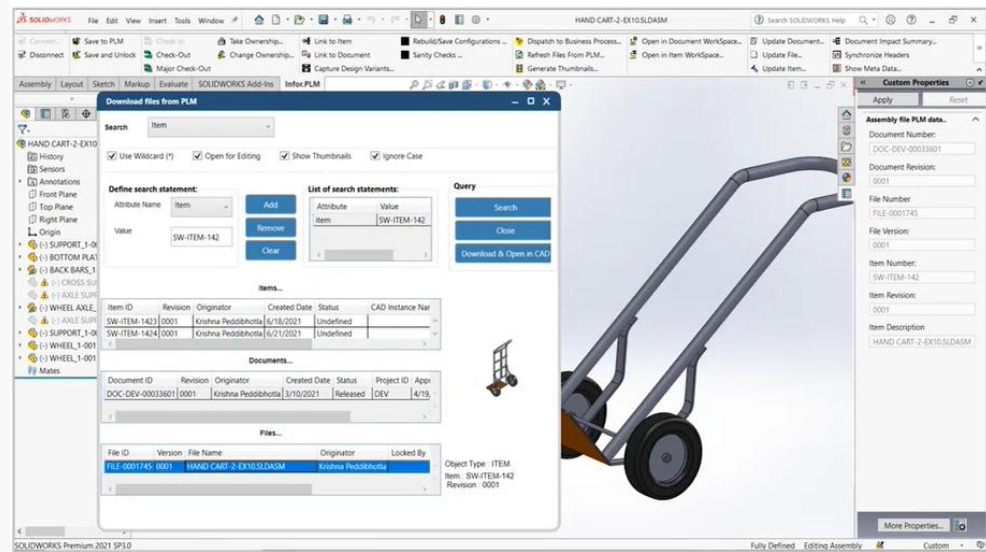
■ LN ERP System Integration

- Publish released Items to LN Item Master
- PLM Documents can be published to IDM
 - Drawings, Manuals, Product datasheet, ...
- Controlled BOM publishing with history
 - By Workflow
 - Manual
- Sharing Common Master Data with LN
- Publish JobShop-BOM by Site with Routings
- Publish global P-BOM without Routings
- PLM Business Process initiated from Quality
- PLM Workspaces
- ...



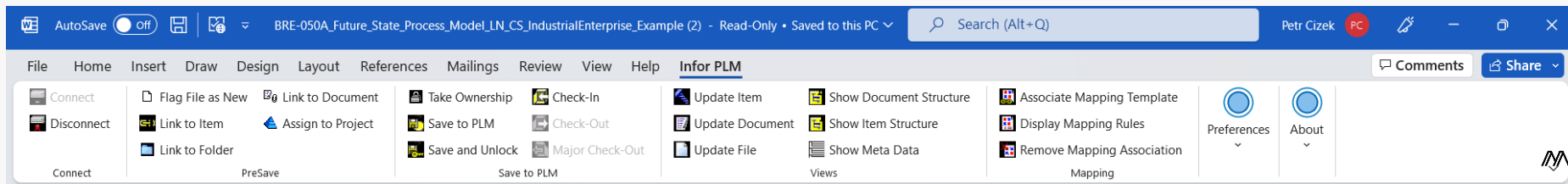
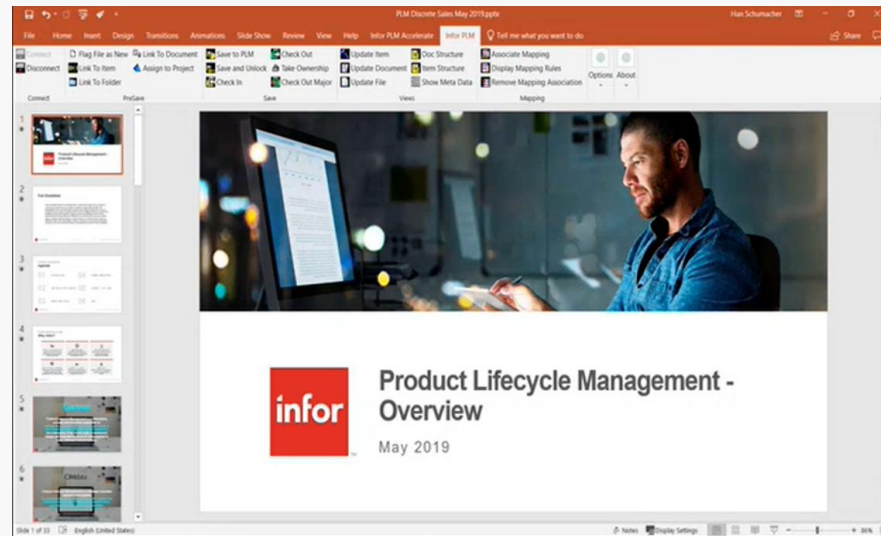
2. Infor PLM for Discrete – CAD Connectors

- CAD Connectors (SolidWorks, Inventor, Creo, AutoCAD, ...)
 - Direct connection from CAD Application to PLM for Discrete database
 - CAD Data on Local server or on Cloud (Amazon S3)
 - Automatic Item numbering from PLM system
 - Revision management
 - Automatic Neutral file generation (PDF, STP, STL, ...)
 - Automatic Thumbnail generation
 - Automatic Item and BOM creation
 - Initiate PLM Business WorkFlow process
 - Search & Open from PLM Database
 - Property mapping functionality
 - User/Admin Preferences



2. Infor PLM for Discrete – Office Connector

- Office Integration (Word, Excel, PowerPoint, Outlook)
 - Direct connection from Office Applications to PLM for Discrete database
 - Office Documents on Local server or on Cloud (Amazon S3)
 - Automatic Documents numbering from ERP system
 - Revision management
 - Automatic Neutral file generation (PDF)
 - Automatic Thumbnail generation
 - Initiate PLM Business process
 - Search & Open from PLM Database
 - Property mapping functionality
 - User/Admin Preferences



2. Infor PLM for Discrete – CAD & Office Connectors – Added Value

Added Value:

- ✓ Designers do not need to leave CAD Software but still have all PLM functions they need
- ✓ All data Designer provide are securely transferred to PLM & ERP System
- ✓ All Parts get the Item number from ERP automatically based on defined Masks
- ✓ New revisions created by one click
- ✓ CAD Connector generate and transfer generic files (PDF, STP, JPG, ...) automatically and transfer them to PLM
- ✓ Simple use of standard / common Parts (Items)

3. PLM for Discrete – CAD Integrations

3. Infor PLM for Discrete – Infor CAD Connectors



SUPPORTED BY INFOR 2024.10 CAD CONNECTOR:



✓ SolidWorks 2021, 2022, 2023, 2024



✓ Inventor 2022, 2023, 2024



✓ AutoCAD 2022, 2023, 2024



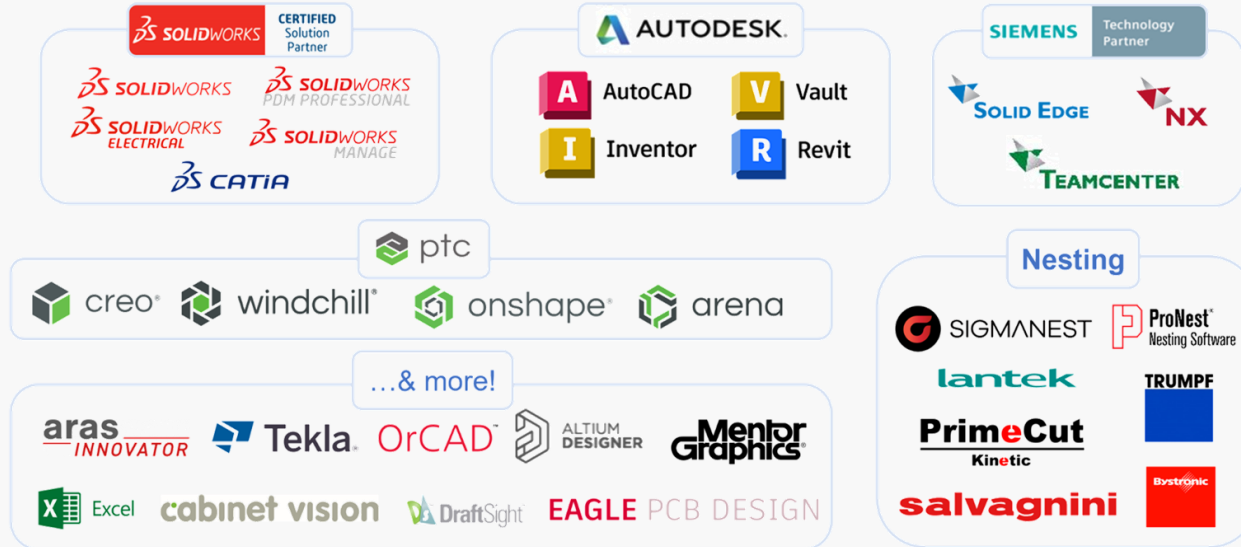
✓ Creo 9, 10, 11

✓ Office 365

➤ Available now and free for all Infor PLM for Discrete users

3. Infor PLM for Discrete – CAD Integrations - Overview

SUPPORTED BY 3rd PARTY INTEGRATIONS:



- SOLUTION SELECTED BY CUSTOMER REQUIREMENTS
- 3rd PARTY LICENCE COST MAY BE INVOLVED
- CUSTOM DEVELOPMENT POSSIBLE WHEN REQUESTED

5. PLM Momentum & Roadmap Highlights

3. Infor PLM for Discrete – Momentum

Accomplishments to date

2022

Industry

- Conditional Workflows (PLM Business Process)
- Resource management master data for PLM users of business process workflows
- Perform Mass BOM Change on non-released parents
- Need engineering find number for reference - PBOM (Digital.Thread)
- Support Topdown Load for CAD Connectors
- Ability to Skip sending component to Production

Experiences

- Copy routines for full product structures
- Advanced Import for XML Based structures
- Advanced Export functions
- Item Structure Workbench (support for all menu/actions)
- Impact Analysis - Item Production Data
- Support alternative Viewer for Autodesk (CAD)
- Add thumbnail column to Item & Document List/Grid session.

Innovation

- Component Engineering – integration with silicon expert
- Support for electronic signatures in business processes
- Quality Management / PLM Integration

Cloud Excellence

- Adoption of DCA for data migration
- CAD Batch register functions

2023

Industry

- Support of use-up materials
- BOM redlining
- Task assignment based on conditions
- Flexible approval procedure for bills-of-material
- Planned dates for business process and steps
- Replacement of components in Item Structure Workbench
- BOM comparison for business process

Experiences

- PLM Item, Document and Folder 360 screen
- Engineering Business Process Workbench
- Advanced search

Innovation

- RestAPI Based Autodesk Vault support
- Integration to support project activities for PLM processes
- Integration of IDM attributes and additional controls
- PCS project code on PLM objects

Cloud Excellence

- LN REST API Cloud platform
- REST APIs to support CAD

2024

Industry

- Intermittent saves of PLM objects in structure workbenches
- Requirements management
- Checklist for business process steps (supportive to the GenAI use case)
- Graphical product genealogy
- Extension of categories to workflows
- Workflow template changes for TP Project integration

Experiences

- Display of business process tasks in order of start date
- Improvements for advanced searches and category-based searches
- Changed description behavior for groups in display
- Enhancements for unlocking files (CAD Integration)
- Customer Defined Fields (CDFs) in satellite sessions of PLM workbenches
- Satellite sessions for Structure Workbenches

Innovation

- GenAI Workflow email template translation
- GenAI Checklist generation
- GenAI – Product Summary generation
- BIM Integration (phase 1) with AutoDesk Vault integration for meta data
- ION workflow integration

Cloud Excellence

- GenAI - LN - Tools Support for 4GL (PLM) sessions
- GenAI - Generative AI in PLM for Discrete

3. Infor PLM for Discrete – Roadmap Highlights

April 2025– Under development

Industry

- Extended task description view
- Additional reference table from the workflow template to be used on business processes
- CAD Connector Improvements
- Read BOM information from SW Drawing

Experiences

- Display Source Engineering Change order details in the PLM Business Process Details contextual widget
- Session to transfer PLM Documents to IDM
- PLM files for Data refresh of LN
- Simplify the Dispatch to BP with Save and Unlock process from CAD Connector

Innovation

- Widgets to render PLM Documents (PDF) in LN
- Color Coding for records in PLM Structure WB

Cloud Excellence

- GenAI - Assistant for Impact Analysis of PLM items
- GenAI - Assistant for PLM Actions and Where Used components
- REST API/odata Services as in PLM 10.2 (KES) Integrations:
 - Configuration Data Management - Integration with CSP - Global Packages for PLM
 - Configuration Data Management - Integration with CSP - Local Packages for PLM

October 2025 – Under consideration

Industry

- LN Integration synchronization for manufacturing routing master data
- LN Integration synchronization from item costing data from LN
- LN Integration Item attributes synchronized back from LN

Experiences

- Support Delete/Archiving functions for PLM Objects & Business Processes
- Widget - (PLM) Business Process My Task Details/Attachments
- Embed CAD Viewer in Item/Document Structure Workbench

Innovation

- Item related transactions visible to support impact analysis
- Start CAD Application from PLM

Cloud Excellence

- LN REST API Public library – additional business services
- Use Global Packages to provision PLM ION Content
- Move PLM Thumbnails to S3 folder

2026+ – Under evaluation

Industry

- Environmental Product Declaration for manufacturing – EPD (ESG*)
- Compliance management and ESG* in standards and processes
- Compliance - support for supplier declaration processing automation
- Materials Management
- PLM integration into LN Assembly BOM
- Integration to Production to pass on the Lifecycle Descriptions
- Digital Thread (large requirement)
- PLM for Discrete - LN Routing Integration
- PLM for Discrete - LN Integration, from Design to Logistic BOM
- LN Integration MPN/GTC - purchase parts/export compliance

Experiences

- Pre-configured Workspace - PLM Requirements Manager persona
- A Single view of all files for files related to a PLM item

Innovation

- PDF Generation on the On-Prem Server for MS Office Files
- Component Engineering - ACL & BOM Health Check

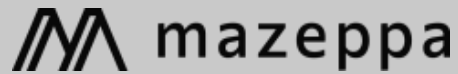
Cloud Excellence

- Business Process financial transaction for Engineering
- Additional Value+/RPA cases
- Integrations:
 - PLM for Discrete - Integration with CPQ

6. Questions...?

Thank you

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