



- Trigger workflow based on project status, including email notification and SAP transactions
- Import and Export to XML, Excel and MS Project files
- Link SAP Business Objects including documents, BOMs and Production Orders

► ENGINEERING CHANGE MANAGEMENT

This ezPLM option enables document driven release/change processes in engineering environments with ad-hoc workflows.

The easy to use ezPLM ECM integrates with the other ezPLM options and simplifies the handling of objects like CAD models or lightweight viewing files.

Some of the key features in this package include the abilities to:

- Create ECR/ECO based on templates for impacted objects, workflows, checklists, reports etc.
- Select impacted objects like documents or materials and link them to the ECR/ECO
- Support workflows leveraging ezPLM templates and SAP's workflow engine
- Simplify and automate actions on impacted objects, i.e. mass CAD-data conversion to neutral files on status change

► OUTPUT MANAGEMENT

This ezPLM option simplifies and speeds the generation, administration and distribution of print media in SAP by offering one solution for all purposes.

Some of the key features in this package include the abilities to:

- Business Printing - Output services for SAP Spool: list printing, form printing with integrated document output Distribution as print or electronically
- Engineering Printing - Output services for PLM-CAD and archive
- Network Printing - Standardizes print solution for Office, desktop and terminal server environments

► VENDOR INFORMATION

CENIT AG (Germany) is one of the premier software and service providers for global PDM/PLM-Solutions.

Coordinate and optimize processes, people and technology, so that you can bring better more innovative products to market faster and cheaper - this stands as an on-going challenge for all manufacturing organizations.

Our philosophy is human-centric as technology cannot exist without the indispensable input, know-how and processes defined and managed by your personnel. Only a balanced harmonization of all three of these key components will lead to long-term success.

The combination of a deep understanding of the product development environment and the world-class deployment of the latest PLM strategies and technologies is what differentiates CENIT and makes us the logical choice as your technology partner.

CENIT's SAP Solutions Group specializes in providing robust applications and solutions enabling seamless integration between product authorizing tools and SAP's application suite.

Being SAP's PLM Development and Special Expertise Partner for years we are uniquely qualified to provide the corresponding technology and expert services to the North American market.



ezPLM - Guaranteed success for a riskless SAP PLM implementation

Standard processes and best practice use cases provided by SAP and CENIT are used to define, scope and implement a core SAP PLM solution and support the migration of engineering data and documents from your existing legacy systems to SAP PLM.

► ezPLM - THE BIG PICTURE

ezPLM is the SAP recommended methodology to implement a core SAP PLM solution for a fixed price. ezPLM enables companies to implement end-to-end processes based on a set of products and services surrounding SAP's enterprise software.

The ezPLM certification guarantees that only the top consultants guide you through your SAP PLM implementation process.

ezPLM provides unique benefits for those organizations ready to...

- know exactly what they'll be getting beginning with the initial contact
- minimize their implementation risk due to the fixed price offering
- focus their initial implementation on an "80%" best practice solution
- scope their solution choosing from pre-defined packages and options
- use precise specifications, use cases, acceptance criteria and resource plans
- limit and scale their commitments and investments due to the phased approach
- utilize only experienced implementation experts from their software vendor
- have deliverables and benefits of each package be clear from the project start

- integrating PLM applications, synchronizing data, automating processes and enabling people for greater collaboration across the globally distributed enterprise

► WHY USE CENIT FOR ezPLM?

- CENIT is one of the leading global systems integrators ready to take on complete PLM implementation projects
- CENIT has more than 1,500 active customers across all manufacturing industries
- CENIT's experts have the experience of more than hundred SAP PLM implementations with CAD / Engineering integration
- CENIT has been a SAP PLM development and SAP PLM Special Expertise Partner for over 10 years and has 20 years experience in the CAD/CAM/PDM/PLM market as a Dassault Systems software and services partner
- CENIT is your most complete ezPLM system integrator offering products and services for all ezPLM options and phases
- CENIT offers hosted ezPLM SAP system access covering all ezPLM options
- ezPLM is incorporated in CENIT's TQM process
- CENIT offers SAP based products and

services beyond the ezPLM scope to extend your SAP solution to a end-to-end IPD (Integrated Product Design) environment

► PHASES & PACKAGES

Your deliverables and benefits of each phase are clear from the project start.

► PACKAGE 1 – ASSESSMENT

Based on an ezPLM checklist, SAP and the PLM Alliance partners provide a thorough assessment of the existing CAD/CAM/PDM landscape and engineering business processes. Key-deliverables of package 1 are an "as-is-report", a target solution layout, a budgeting estimate, a scope definition and a fixed price quote for packages 2 or 3.

► PACKAGES 2 AND 3 – HANDS-ON PROJECT TEAM EDUCATION ENVIRONMENT

After the initial assessment, SAP and the PLM Alliance partners provide a hosted proof of concept system based on industry best practices that offers options for all typical engineering integration aspects and PDM business processes.



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INTEGRATING PLM APPLICATIONS, SYNCHRONIZING DATA, AUTOMATING PROCESSES AND ENABLING PEOPLE FOR GREATER COLLABORATION ACROSS THE GLOBALLY DISTRIBUTED ENTERPRISE

The customer project team is educated in hands-on workshops and maps the ezPLM options to their business processes and most relevant business issues.

Package 3 adds a local copy of the ezPLM master system and a budget for customer specific tailoring.

Key-deliverables of packages 2 and 3 include a detailed scope definition for the target solution layout, a gap analysis, a project plan with working tasks, internal and external resource requirements and timelines and an analysis of legacy systems and data along with a data migration plan.

SAP and the PLM Alliance partners deliver a fixed price quote for package 4 with precise scope definition, deliverables, use cases and acceptance criteria.

► PACKAGE 4 – PRODUCTION SAP PLM SYSTEM

The key-deliverable of package 4 is a production SAP PLM system. All chosen ezPLM options are implemented, tested and accepted based on pre-defined use cases and acceptance criteria.

Agreed-to education and documentation are delivered and migration of legacy data is accomplished if that option is chosen. Implementation cost is contractually agreed to and will not be exceeded – SAP and the PLM Alliance partners assume risk of project overruns.

► ezPLM OPTIONS

Why ezPLM options? The options are used to group typical tasks that address the common requirements of a core SAP PLM implementation.

All options contain software and services based on pre-defined / pre-configured use cases.

Most ezPLM options allow to choose from sub-options to give you the highest flexibility to match exactly your core specific requirements and priorities.

We made it simple and riskless to move your company step-by-step into a complete SAP PLM solution.

Throughout this next section, you will see the available options for starting with the ezPLM solution.

► DMS WITH OFFICE INTEGRATION

This ezPLM option enables your SAP system for document management. It also enables the integration of MS Office and Windows® Explorer with your SAP system.

This ezPLM option also optimizes your SAP infrastructure for global distributed large document (i.e. 3D CAD) vaulting.

Some of the key features in this package include the abilities to:

- Implement the required SAP DMS infrastructure i.e. Content-/Cache servers for document vaulting, T-Rex for full text search etc.

- Support all documents formats including MS Office, Adobe PDF, standard image file types, VRML, video file, simulation studies and even e/mCAD files
- Define and configure major document types with attributes, authorization control and status networks, etc.
- Use intuitive Windows® style functionality with drag & drop option
- Search documents based on graphical content
- Collaborate globally and vault locally with rule-based vault assignment(s)
- Optimize document access time and network load via global data replication either on demand or by schedule
- Simplify SAP DMS backup & recovery

► mCAD/ eCAD

This ezPLM option makes your mCAD authoring environments a seamless integrated part of your SAP PLM Solution. SAP integrations are available for all major mCAD systems like CATIA, UG NX, Pro/E, Inventor, AutoCAD, SolidWorks, SolidEdge, Microstation and others.

This ezPLM option makes your eCAD authoring environment a seamless integrated part of your SAP PLM.

This solution supports all major PCB design tools from Altium, Mentor and CADENCE. Other eCAD integrations are available upon request.

Some of the key features in this package include the abilities to:

- Synchronize eCAD libraries with SAP and provide integrated component management
- Create / update / delete document structures (BoDs) and BoMs (i.e. for Purchasing / Manufacturing) from CAD environment
- Manage eCAD documents (check in / out) with derived data and title / revision block management

► CASE TOOL

This ezPLM option merges your installation code and firmware with mechanical and electrical design in your global SAP backbone.

This solution currently supports MKS and ClearCase. Other CASE Tools are available upon request

Some of the key features in this package include the abilities to:

- Create project context from SAP in the CASE Tool environment
- Import software builds from CASE Tool environment into SAP
- Create links to corresponding SAP objects and manage revision and version control

► PRODUCT VISUALIZATION

This ezPLM option provides a solution to create and publish 2D/3D graphics in lightweight formats inside SAP to support business process participants of the entire extended enterprise.

Some of the key features in this package include the abilities to:

- Create and watermark or stamp 2D representations like tif or pdf and 3D light weight models in RH, JT or 3D PDF automatically from CAD files and vault together in SAP
- Automated derivative creation either event triggered or manually started
- Share, view, manipulate, measure, proof, and sign-off electronically 2D / 3D PDF or other light
- weight files with imbedded SAP standard technology

► ENGINEERING DATA EXCHANGE

This ezPLM option makes engineering data (i.e. Multi-CAD, XML) exchange with suppliers and customers a seamless integrated business process in your SAP PLM solution.

Some of the key features in this package include the abilities to:

- Import and Export Multi-CAD and Office data while reconciling against prior imports
- Create / update / delete SAP meta-data (i.e. DIR, BoD) and SAP object links (i.e. to Material Master, Project, Change Master) as part of the data import.
- Control attribute mapping and import / export process via rule sets and mapping tables
- Automate import of large data volumes for legacy data migration

► ENGINEERING COLLABORATION

This ezPLM options connects the ezPLM Data Exchange solution with SAP'S engineering collaboration solution cFolders.

cFolders is used to share exported Docs., BoMs, Multi-CAD- and meta-data with suppliers or re-import these data from cFolders to the SAP system.

Some of the key features in this package include the abilities to:

- Implement and configure the cFolders infrastructure for engineering collaboration
- Export complex engineering data from SAP and store it on cFolders
- Import complex engineering data from cFolders and load it into the SAP backend
- Connect cFolders with the easyDM and the SAP Portal

► PROJECT MANAGEMENT

This ezPLM option provides an SAP integrated Project Management solution including phase planning, task scheduling and resource allocation linked to the SAP backbone and all relevant SAP business objects.

Some of the key features in this package include the abilities to:

- Create projects based on templates for project plans, checklists, resources etc.
- Track project completion and allocate tasks with simultaneous resource leveling

