



Standard

Software Solutions



# Collaboration Portal

Text

## Application Highlights

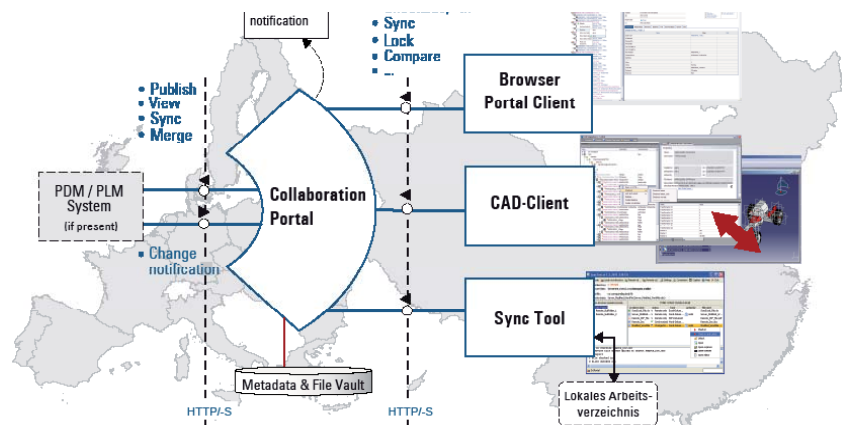
- Engineering Collaboration
  - Fast and secure integration of external partners
  - Change management of development states
  - Cross enterprise Change-Lifecycle
- Provision of relevant Engineering Information
  - Project dependent access
  - Configuration and version tracking
  - Flexible authorization and authentication concept
- PDM link-up
  - Transparent access to PDM information
  - Data transfer from/to PDM
  - Comparison of different PDM states
- Infrastructure
  - Easy integration in existing IT-infrastructure
  - Security through own DMZ and state-of-the-art encryption methods

## Streamlining collaborative engineering processes across companies

PDTEC's Collaboration Portal offers an easy to use, web based portal to reliably integrate external partners into your product development and lifecycle processes.

Using the communication and information platform provided by Collaboration Portal, suppliers, engineering service providers, and joint ventures can be given selective, controlled, and instant access to all data needed to efficiently perform their engineering tasks.

By providing a central information hub for sharing and exchanging all product data, documents, agreements, and guidelines relevant with partners, Collaboration Portal enables a seamless information flow between



internal and external project partners.

Partners can work on their data directly on the portal or by checking out development data sets and documents from the portal into their local working environment. At the same time, external partners are able to check in the development data they have worked on back into the Collaboration Portal.

A flexible authorization management combined with state-of-the-art data transfer encryption methods ensure the necessary data security.

With Collaboration Portal, PDTEC has opened a new dimension of integration and collaboration within global cross-company product- lifecycle processes.

Collaboration Portal efficiently enables the transformation of traditional product development processes to web-enabled, collaborative, virtual enterprises.



## Product concept

The PDTec Collaboration Portal provides a platform to continuously support cross-enterprise collaboration processes and information retrieval. Changes of product data and specific events during product development are tracked and documented by the Portal. Subscribe and notification mechanisms allow an automatic messaging of internal and affected external users in case of changes or other events. E.g., internal users receive a notification when an external user has uploaded a new or updated version of a product data set. External partners are notified if changes have been made which affect their specific design space or environment geometry.

The flexible, service-oriented architecture and an open interface concept based on established standards such as XML, SOAP and Web Services allows an easy connection and integration with proprietary systems in a heterogeneous IT infrastructure.

Adaptive PDM-connectors enable access to the used PDM/PLM Systems maintaining required consistency constraints.

Configuration and versioning mechanisms allow the tracking towards original data sets stored in PDM at any time. Efficient algorithms for comparison and merging of data sets facilitate the identification of changes and the controlled consolidation of data sets that have been processed externally.

## Collaboration Portal the secure Solution for cross-company Collaboration

The Collaboration Portal offers a rich set of standard functionality and services support collaborative engineering processes in a virtual enterprise. Its Application Modelling Framework is based on a dynamic information model and enables an easy and quick adaption to customer specific requirements.

The Collaboration Portal enables the controlled and instant integration of all partners involved in a change lifecycle process and contributes to the reliability and transparency of processes and data in a virtual enterprise.

## Technical Highlights

- Open, Service Oriented Architecture (SOA)
  - Interfacing via XML, SOAP, WebServices
  - Adaptive PDM-Connectors
- Application Modelling Framework
  - Dynamic Information model
  - Graphical UML Modeller
- Collaboration Management
  - Authorization Management for Users, Roles and Teams
  - Access Control for Projects, Objects and Functions
  - Subscribe und Notification Mechanisms
  - Flexible Project and Folder Concept for Data Organization
- Scalable Data Management
  - Optimized Database Access
  - Efficient Mass Data Management
  - Audit Trail (Object History)

