

PDTnet Project

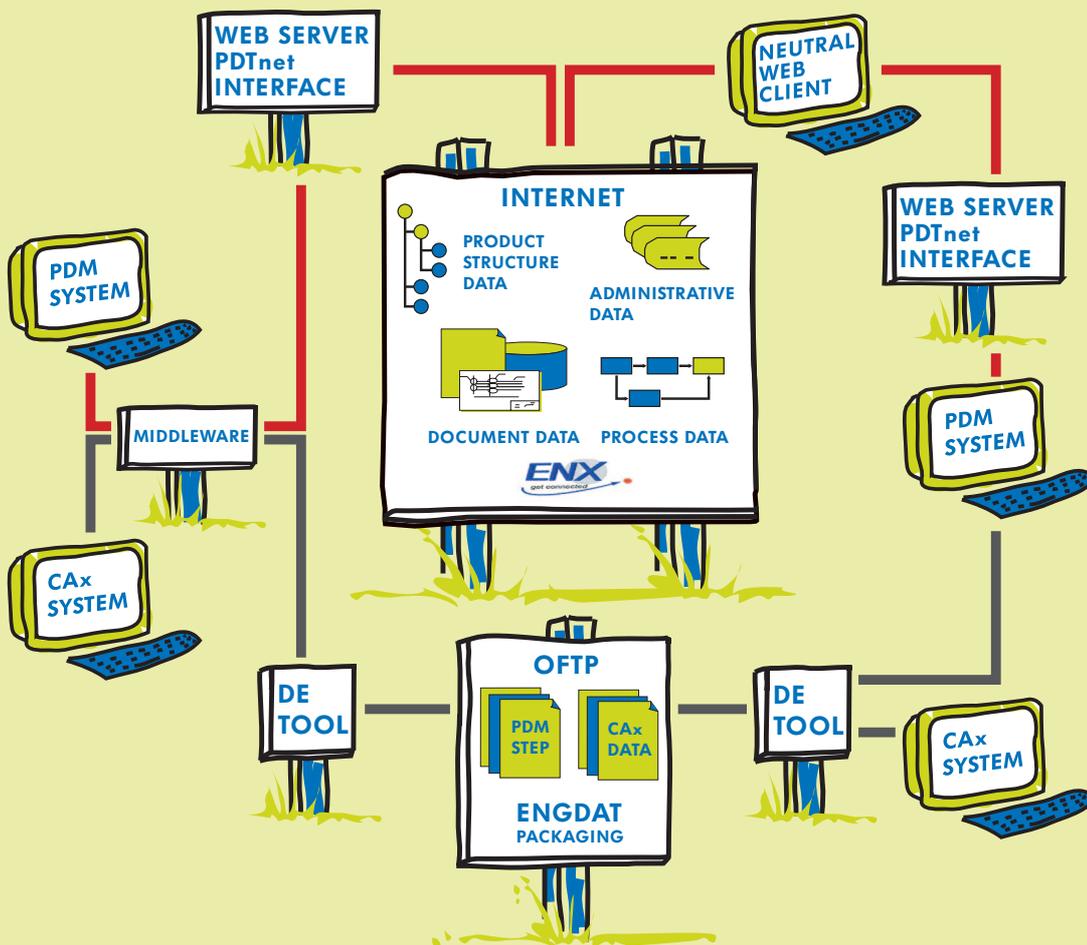
Product Data Technology and Communication in an OEM and Supplier Network



Application Scenario 2: PDM Web Integration

The Basics

- Web based product data exchange between development partners
- Providing a common infrastructure for online access on PDM and related systems using Internet technology
- Development of a standard interface for access on different PDM systems
- Online transmission based on the PDTnet ISO 10303 STEP AP214/XML Schema, a neutral data exchange and integration protocol



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The Scenario

- A Neutral PDM Web Client is deployed on supplier side to enable a consistent access on data of different PDM systems
- This Web Client is easy to adopt to any user interface and can be used with customary browser technology
- The exchanged information contains product structure, part master data and attributes, document data, BoM data, organizational data, effectivity, release and change information
- For data supply and communication with the Neutral Web Client a PDM server is used
- Besides online access, the initiation of an asynchronous data exchange via OFTP/ENGDAT is allowed
- Major use cases supported:
 - o authentication/authorization
 - o change notification
 - o browsing/viewing of product structure
 - o search in design space
 - o upload/download of documents

The Benefits

- Cross-organizational integration of PDM systems
- Comprising neutral, system independent product data communication between car manufacturer and supplier
- Using up-to-date Internet technology to implement the well established standard ISO 10303 STEP AP214
- Enabling online access from any work station at any location
- The Neutral Web Client serves as an easily applicable graphical user interface for individual system environments
- Data security by using ENX[®]
- Safeguarding of results by participating in international standardization processes concerning the basis of XML implementation of STEP data models (ISO 10303, Part 28)

The Results

- **PDTnet ISO 10303 STEP AP214/XML Schema:**
defined XML schema description for neutral product data communication
- **PDTnet Implementation Guide:**
description of functional and information range, implementation concepts and examples for the PDTnet ISO 10303 STEP AP214/XML Schema
- **Prototype of a Neutral Web Client:**
available through the PDTnet demonstration server at www.pdtnet.org
- **White Paper for PDTnet Authorization and Security Concepts:**
description of authorized access to PDM systems and security concepts developed within the project

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