



**Siemens PLM
Connection**
Americas

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#PLMConX

Benefits of MBD- Enabled 3D PDFs

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Company Overview

A vendor neutral / independent engineering services and software company since 1993

OPENPDM[®]

OPENDESC[®].COM

OPENDXM[®]
GLOBAL X

3D
PDF
Pro

PDF
GENERATOR
3D

Over 25 years experience
with engineering interoperability, migration, intelligent documents,
benchmarking, more
Approximately 250 employees and consultants
based from international locations throughout Europe and in North
America
More than 500 Customers
that are leading companies across most industries

Shareholders

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What is MBD?

The MBD idea of Model Based Definitions for CAD, involves using CAD system agnostic digital drawing files where not only the 3D geometric part shapes, designs are present, but further the tolerance, annotations, key design data required to fully interpret the 3D drawing.



Collaboration challenges?

- Systems / Software
- Language Barriers
- Standards
- Geographical location / Time Zone
- Protecting IP while sharing design data
- Cost
- Quality
- File size
- IT Administration Restrictions



Who uses 3D PDFs?

Securely communicate and collaborate with anyone, anywhere, for any workflow.





Benefits of using MBD enabled 3D PDFs

- Bring Products to Market Faster
- Reduce Production Cost
- Improve Quality
- Comply with New Standards
- Easy Collaboration



Key Advantages of 3D PDF Documents

Repurpose 3D CAD Model Based Engineering (MBE) data for data sharing

- Many companies use multiple CAD systems (CATIA, SolidWorks, NX, Creo, Inventor) where vendors may not
- Standard file formats are also supported (JT, STEP, IGES, VRML, STL, Parasolid, U3D and PRC)
- Lightweight template driven delivery format – **large compression ratios** (186mb to 10mb, 315mb to 31mb, 101.6mb to 2.5mb)
- Reuse 3D CAD data for other end-user jobs or applications

Data Security

- Intellectual property is protected as **the original CAD data is never shared**
- Limit navigation controls, limit to specific users, password protection, add certificates, etc.
- Choose to include full Metadata, no metadata, mesh representation only

FREE Adobe Reader - standard software installed on 98% computers worldwide

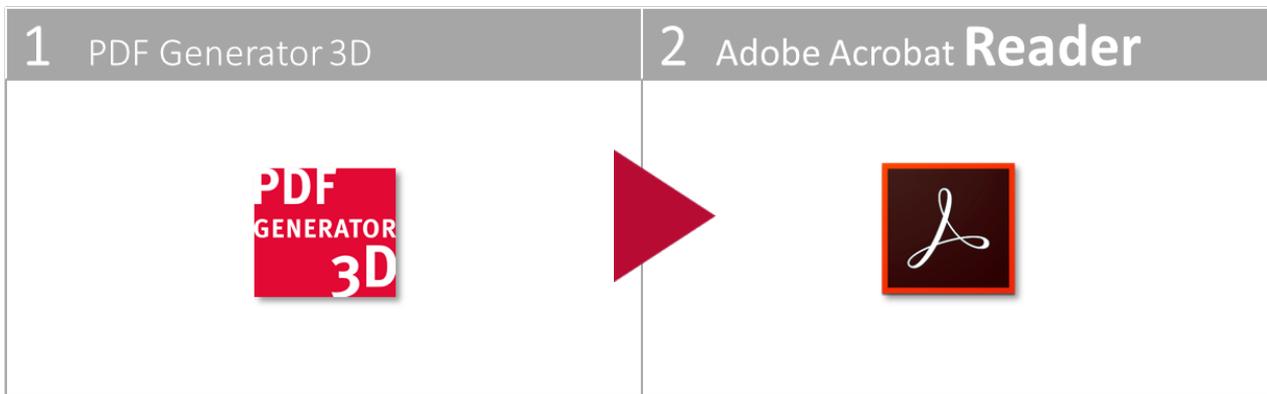
- 3D Portable Document Format makes distribution down stream much easier
- 3D PDF Model Based Engineering templates can now be **shared offsite for free** using tablets



Server Solution: PDF Generator 3D



- **Server license** to convert MBE data into 3D PDF documents
- **Automated workflow** process across platforms
- Additional components to **further optimize CAD data**
- Uses **AEM Forms** for PDF template design
- Direct **interfaces to PLM/ERP** for connection to enterprise systems

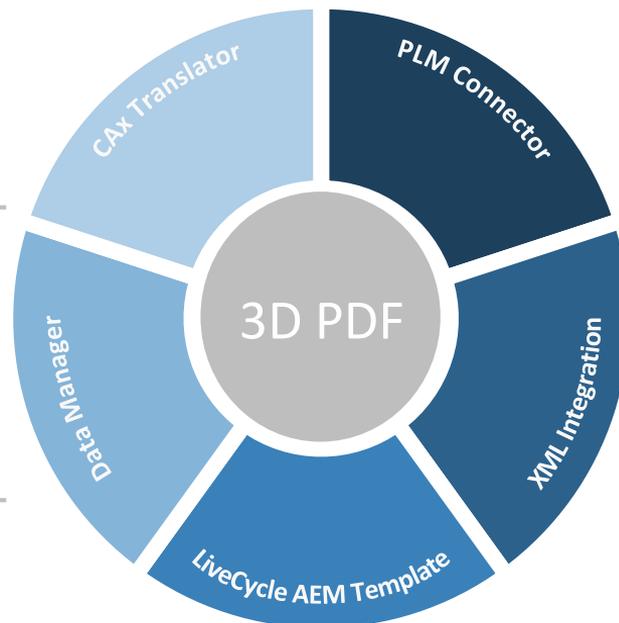




Server Solution

CAx Translator

Multiple CAD translator options can be used as a pre or post process workflow depending on desired outcome.



Data Manager

Control visibility, limit user controls, include signoffs, add additional security or encryptions. Define pre and post processes to incorporate into a strategic workflow.

LiveCycle AEM Template

Design the template layouts or title blocks and define Intelligence to PDF template to automatically fill in document form fields.

PLM Connector

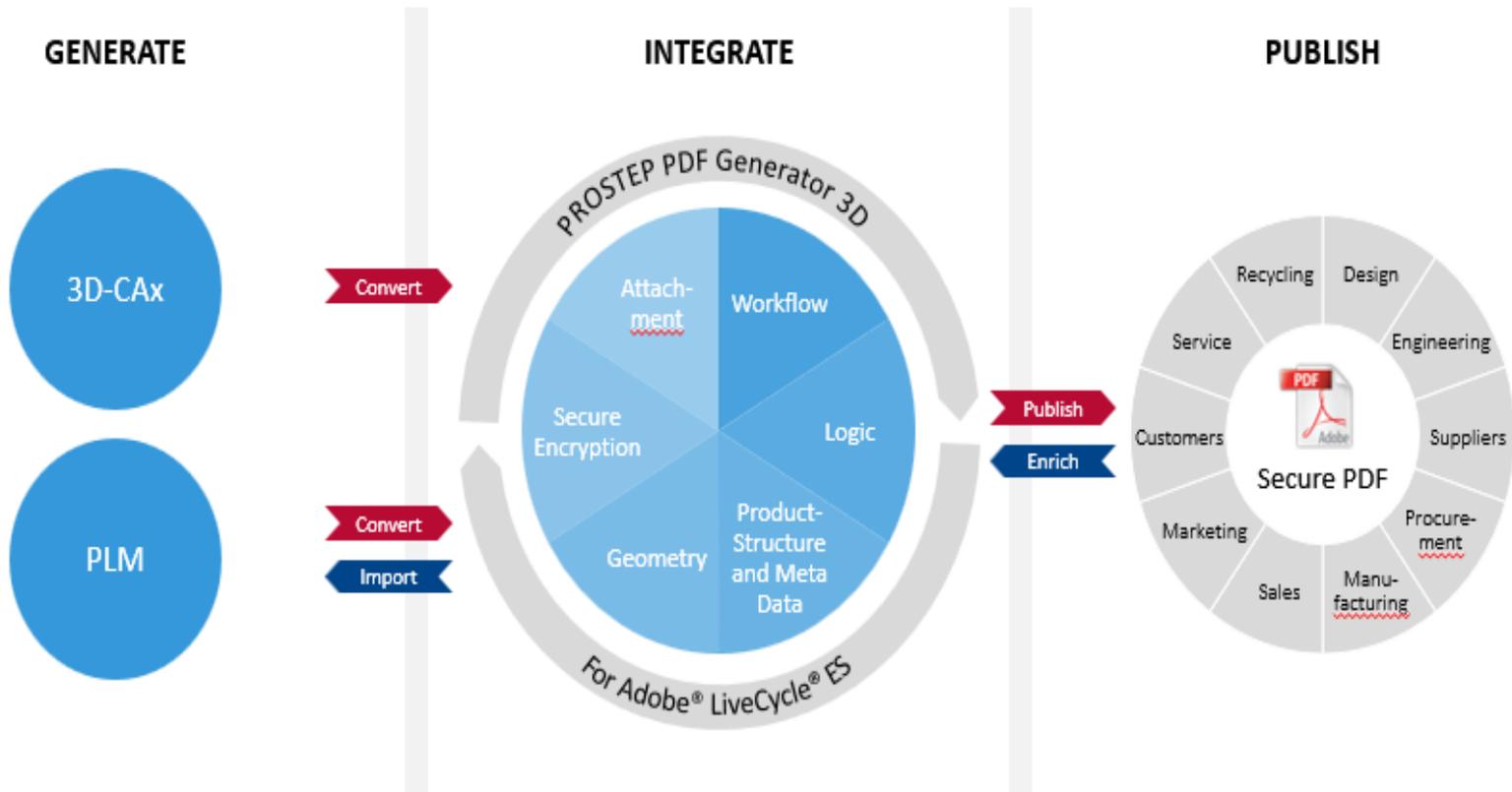
Automated workflows connected with other systems customized with any environment.

XML Integration

One of the common sources used to marry information between multiple systems into a single PDF source. ModelScript application can optimize the CAD data.



PROSTEP PDF Generator 3D for LiveCycle

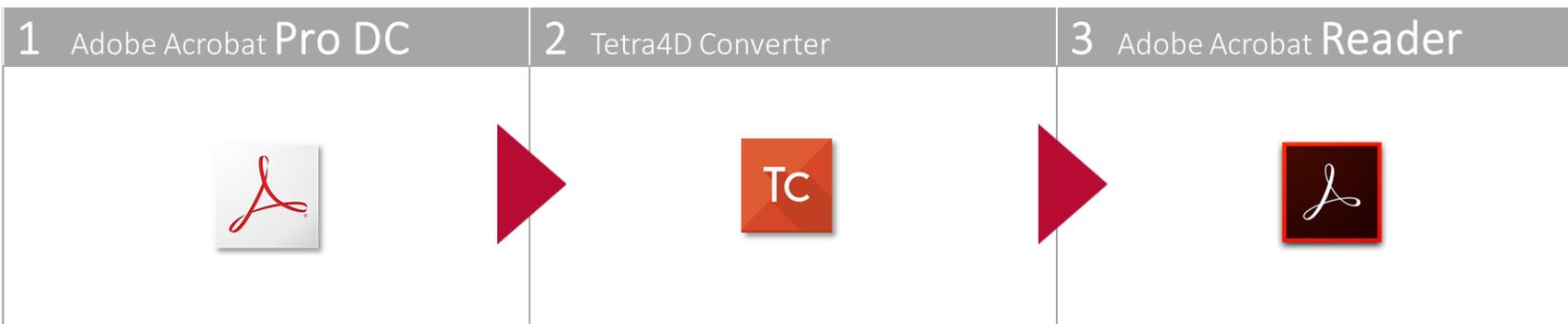




Client Solution: Tetra4D Converter



- **Desktop application** to convert CAD data into 3D PDF documents
- **Low cost** solution for those who are starting out on a smaller scale
- **Requires Adobe Acrobat Pro** to run
- Tetra4D Converter is a **single user license**
- We are partnered with Tetra4D as the N.A. Value-Added Reseller (VAR)





Customers

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- 100's of skilled PLM and CAD consultants
- More than 20 years of experience since 1993
- Global Reach
- Part of the ProSTEP iViP non profit consortium
- Standards based software
- Best in class processes methodologies
- Field Tested Commercial grade Software
- Flexible Rental or Purchase Options
- Certified and Maintained Connectors to most popular systems





Questions?



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THANK YOU!

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