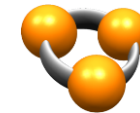# COMPDM
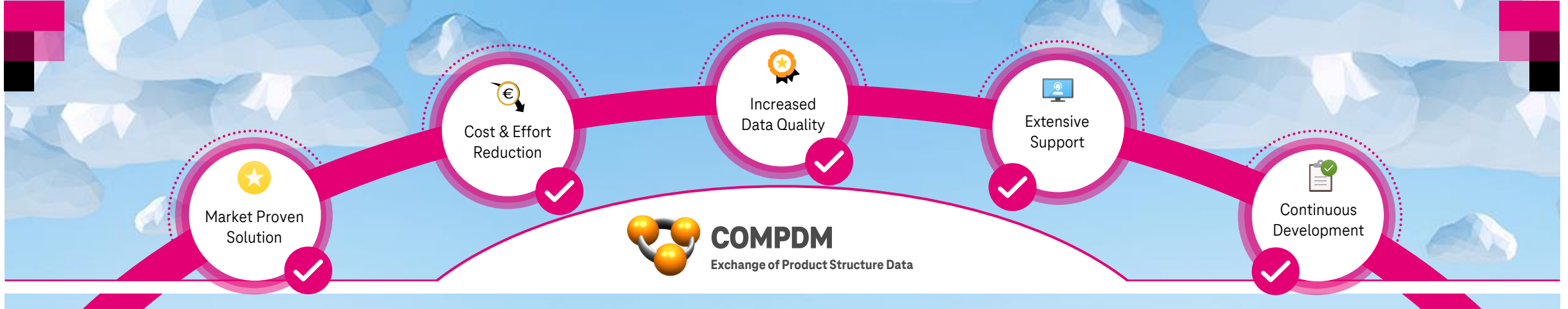
Jorge López
T-Systems International GmbH
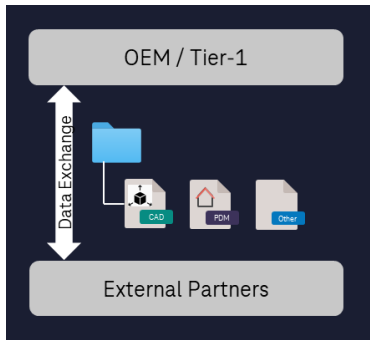Business Analyst

20 October 2022

COMPDM in a Nutshell

COMPDM
Exchange of Product Structure Data

- Market Proven Solution
- Cost & Effort Reduction
- Increased Data Quality
- Extensive Support
- Continuous Development

Data Exchange

OEM / Tier-1

Data Exchange

CAD · PDM · Other

External Partners

Seamless, end-to-end data exchange of product structure data

Data Migration

Current PDM Application

CAD
PDM
Other

Migration

CAD
PDM
Other

New PDM Application
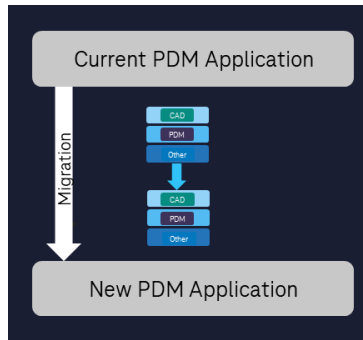
Migration of product structure data from an existing PDM application to another

Long-Term Archiving

PDM Application

CAD
PDM
Other

Archiving

JT
STEP
Other

Long Time Archive
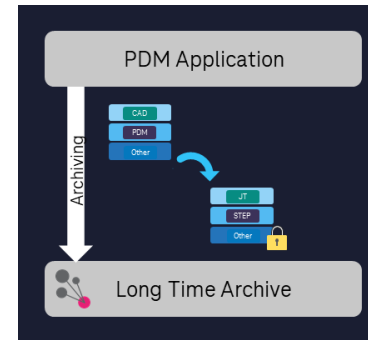
Transformation of product structure data into neutral formats and archiving into a long-term archive considering legal regulations.

prostep IVIP

COMPDM in a Nutshell

Standards & Applications

Automated Data Analysis

Easy to Configure & Customize

Reconciliation Capabilities

Process Automation

COMPDM
Exchange of Product Structure Data
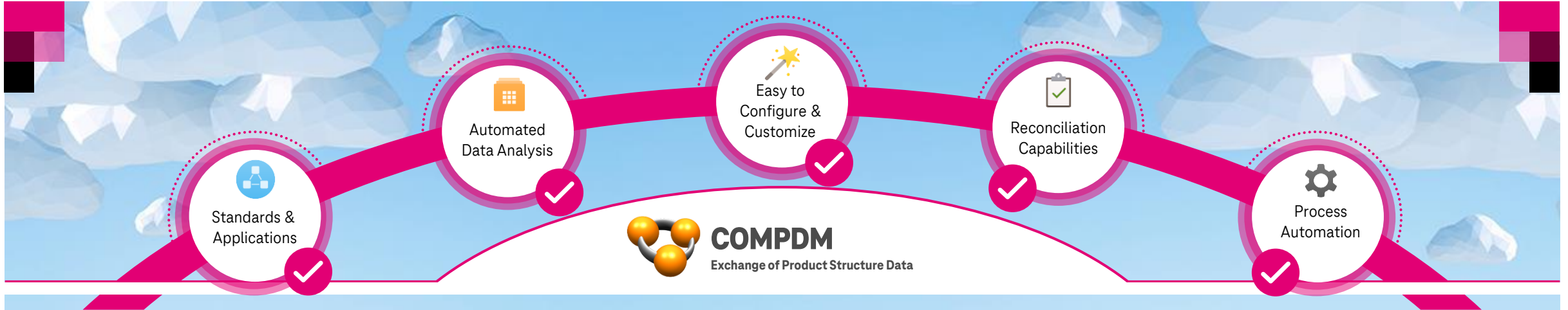
PDM Applications

aras INNOVATOR

TEAMCENTER

windchill®

3DEXPERIENCE

DS ENOVIA

CAD Applications

DS CATIA

SIEMENS NX

creo®

Partner Modules

Rocket
TRUfusion Enterprise

ImageMaster

Additional Modules

STEP AP242

Cache Module

STEP AP214

Java Debugger

Auto Doc

Technology Facts	• Client / Server Architecture (Windows)	• High Performance due to load balancing features	• Frequent updates, incl. two major releases each year
	• Rich- and Web-Client for Admins and Users	• Lean infrastructure requirements due to end2end content streaming	• Extensive Support
	• Java 17 Application (Amazon Corretto)		
	• Security & Encryption Standards		

AFNeT

prostep IVIP

COMPDM
Roadmap – Timeline

COMPDM Release 2021.2	COMPDM Release 2022	COMPDM Release 2022.2 (Current Release)	COMPDM Release 2023	COMPDM Release 2023.2

July 2021
(05.07.2021)

Dec. 2021
(13.12.2021)

April 2022
(04.04.2022)

Dec. 2022
(planned: 12.12.2022)

Q2/2023

New Features (Excerpt):

Automatic Documentation

Support for CREO V4

Export and import of configuration in XML format

Support for STEP AP242 "Edition 2 MR"

New Features (Excerpt):

Support for CREO V7

Pre-configured OEM Representations

Support reading physical properties from a CATIA part

New Features (Excerpt):

Interactive Process Debugger

Single-Sign-On Authentication with Azure or SAML2

Support JAVA 17

New Features (Planned):

Microsoft Windows 11 Enterprise Edition

Microsoft Windows Server 2019

UNIX Batch Client (Small tool to launch COMPDM imports/exports from UNIX/AIX)

Improvements for interactive export (multi select of root parts)

Support for STEP AP242 "Edition 3"

New Features (Planned):

Support for CREO V8

If you have special requests just let us know

prostep IVIP

COMPDM
PDM functional capabilities supported by the STEP AP242 interface

PDM information		Implementation format						Level of implementation			Aras Innovator	Teamcenter	3D Experience	VPM	Windchill
		AP242 Ed1		AP242 Ed2		AP242 Ed3									
		P21-AIM	XML-BOM	P21-AIM	XML-DM	P21-AIM	XML-DM	Pilot	IF test	COTS					
"As Designed" PDM product structure		NO	YES	NO	YES	NO	YES	YES	YES	YES			YES		
"As Planned" PDM product structure		N.R.	YES	N.R.	YES	N.R.	YES	YES	YES	YES	YES	-	-	-	-
Nested PDM product structure		NO	YES	NO	YES	NO	YES	YES	YES	YES			YES		
Incremental Exchange		NO	YES	NO	YES	NO	YES	YES	YES	YES			YES		
Assembly validation properties		NO	YES	NO	YES	NO	YES	YES	YES	YES			YES		
Lifecycle management (LifeCycle, ApplicationDomain, Approvals)		N.R.	YES	N.R.	YES	N.R.	YES	YES	YES	YES			YES		
Document management		N.R.	YES	N.R.	YES	N.R.	YES	YES	YES	YES			YES		
Person and organization		N.R.	YES	N.R.	YES	N.R.	YES	YES	YES	YES			YES		
Date and Time		N.R.	YES	N.R.	YES	N.R.	YES	YES	YES	YES			YES		
Classification		N.R.	YES	N.R.	YES	N.R.	YES	YES	YES	YES			YES		
Material properties		N.R.	NO	N.R.	NO	N.R.	NO	NO	not covered yet	NO			YES		
Customized PDM properties		NO	YES	NO	YES	NO	YES	YES	YES	YES			YES		
User defined attribute		NO	PARTIAL	NO	PARTIAL	NO	PARTIAL	YES	YES	YES			YES		
Multi-identification		N.R.	YES	N.R.	YES	N.R.	YES	YES	YES	YES			YES		
Change Management (WorkRequest, WorkOrder, Activity)		N.R.	YES	N.R.	YES	N.R.	YES	YES	YES	YES			YES		
Configuration management	based on effectivities	N.R.	YES	N.R.	YES	N.R.	YES	YES	YES	YES	YES	-	-	YES	-
	based on specifications	N.R.	YES	N.R.	YES	N.R.	YES	YES	YES	YES	YES	YES	-	YES	-
	filtering information	N.R.	YES	N.R.	YES	N.R.	YES	YES	YES	YES	YES	-	-	-	-
Alternate / Substitute Parts		N.R.	YES	N.R.	YES	N.R.	YES	YES	YES	YES	YES	-	-	-	-
Mirrored Parts		N.R.	PARTIAL	N.R.	PARTIAL	N.R.	PARTIAL	YES	YES	YES			YES		
LOTAR Product Structure Validation Properties		N.R.	PLANNED	N.R.	PLANNED	N.R.	PLANNED	NO	in preparation	NO			NO		

COMPDM Release 2022.2

Target PLM solutions:

- Aras Innovator® 9↑
- Siemens Teamcenter® 10.1.7↑
- PTC Windchill® 10↑
- Dassault Systèmes 3DEXPERIENCE® Platform (ENOVIA) 2013x↑
- Dassault Systèmes ENOVIA VPM V4® 1.5-1.14 AIX only

↑ = and higher versions

DM = Domain Model
n/a = not applicable because not supported by the standard
N.R. = not recommended (based on IFs) to be supported by this format, but by the other one (P21 vs XML)

Note: level of implementation = Pilot, IF test and COTS are three levels of maturity
Pilot = initial implementation started
IF test = interoperability testing started
COTS = mature and commercially available ("Commercial Off-The-Shelf")

COMPDM Benchmark Results

One of the best STEP AP 242 Processors

- COMPDM participated in AFNeT & ProSTEP iViP STEP AP242 benchmarks in 2017 & 2020

- Six worldwide active vendors of data exchange applications in the race including PLM system vendors

- Assessment of functionality, quality of imported/exported data and compliance with STEP AP242 standard

- Ready to go for Benchmark 2023

prostep ivip and AFNeT Benchmark Results 2020

Multi-id test case results		
Step number	Criteria name	T-Systems COMPDM v2020.1.0 for Aras Innovator 12.0 SP1
Phase A: STEP import from sample file and export		
1	STEP IMPORT	●
2	End-User Check	●
3	STEP EXPORT	●
3	STEP file conformity	see the three lines below
3	- XML conformity check error	●
3	- XSD conformity check error	●
3	- Comparison and R.P. conformity check	●
4	Import of exported STEP File	●
Phase B: STEP import from selected files		
4	STEP IMPORT	●
5	Approval, End-User check	●
6	STEP IMPORT	●
7	STEP EXPORT	●

For more details on the benchmark use this link

COMPDM References and Partners
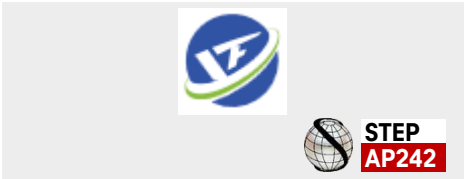
COMPDM Key Figures

>25 Customers

Market Proven Solution

Over the past years, many customers have relied on our COMPDM solution.

~ 80%

Reduce Efforts & Costs

Depending on the existing data exchange process, reduce your efforts and costs up to 80% by using COMPDM.[1]

Collaboration

Proven Collaboration

We are proud to be supported by our PLM/CAD/Archiving/EDI partners since many years.

>15 Years

Experience

Benefit from many years of experience of our experts in data exchange solutions & migration.

Rapid Prototyping

Fast-Track Implementation

COMPDM is suitable for simple to highly complex scenarios and can be setup and configured quick and easy.

Trainings

Admin & User Trainings

We provide trainings (1-2 days) for COMPDM administrators and end users.

1) Feedback from our customers

COMPDM Contact Information

Tino Schlitt

PLM Product Sales

T-Systems International GmbH
Fasanenweg 5
70771 Leinfelden-Echterdingen
Germany

+49 711 999 6472
Tino.Schlitt@t-systems.com

Pia Fuchssteiner

Solution Sales

T-Systems Austria GESMBH
Rennweg 97-99
1030 Wien
Austria

+43 676 8642 8373
Pia.Fuchssteiner@t-systems.com

Frederic Bluth

Product Manger

T-Systems International GmbH
Fasanenweg 5
70771 Leinfelden-Echterdingen
Germany

+49 711 999 7042
Frederic.Bluth@t-systems.com

Jens Kübler

Senior Consultant

T-Systems International GmbH
Fasanenweg 5
70771 Leinfelden-Echterdingen
Germany

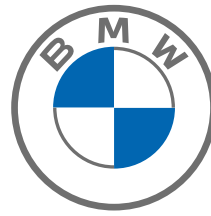+49 711 999 7562
Jens.Kuebler@t-systems.com

Homepage

https://plm.t-systems-service.com/compdm

Software

COMPDM:	Link
Release Notes:	Link
Manuals:	Link

Additional Documents

Benchmark proStep:	Link
Flyer:	Link
Further Information:	Link

Thank you for your Attention

20 October 2022