

ISO STEP AP242

“Managed Model Based 3D Engineering”

Roadmap for T-Systems STEP applications

Paris, the 26th of March 2014

T-Systems

AP242 Roadmap

Applications

T-Systems applications supporting STEP AP242

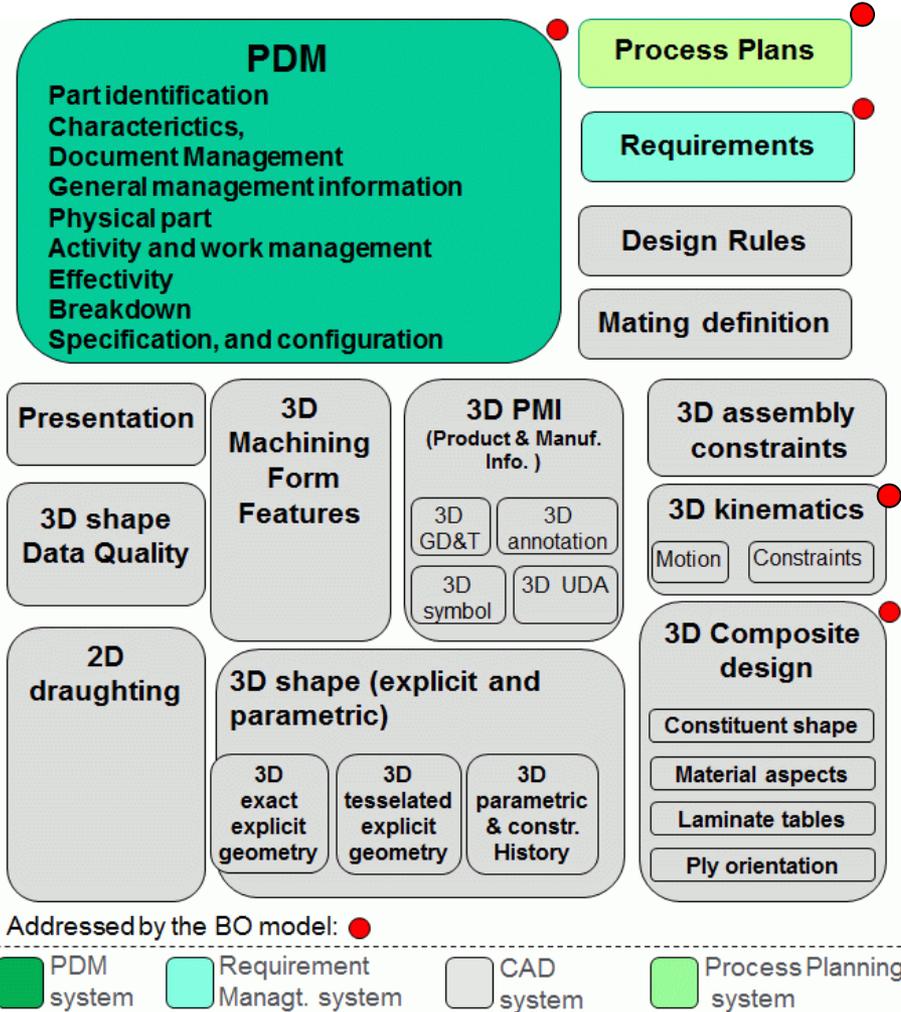
- PDM WebConnector V3.8 SOA-based middleware for PDM system integration
- COM/PDM V1.1 STEP based PDM data exchange for supplier integration
- COM/FOX V5.5.2 CAx data conversion platform

Supported AP242 Release

- AP242 BO Model XML (IS Review)

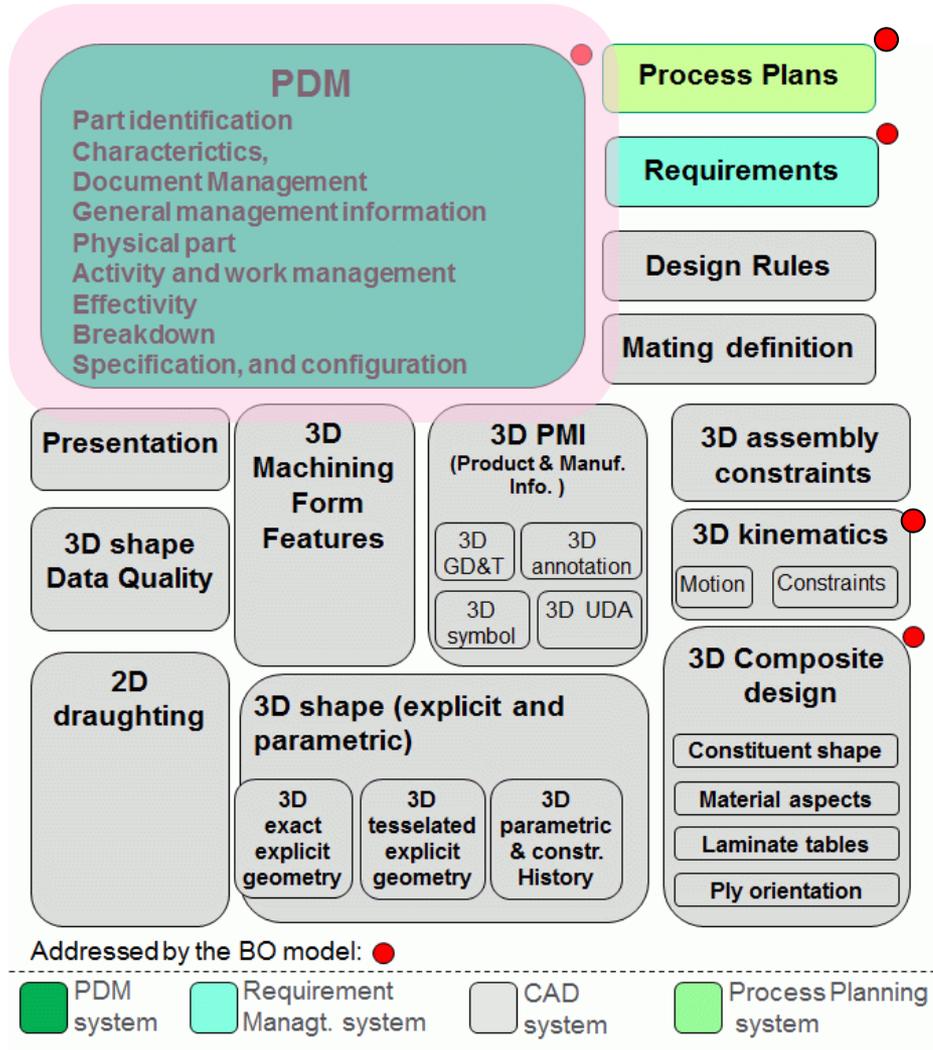
AP242 Roadmap

Capabilities Overview



AP242 Roadmap

Capabilities covered by PDM WebConnector and COM/PDM

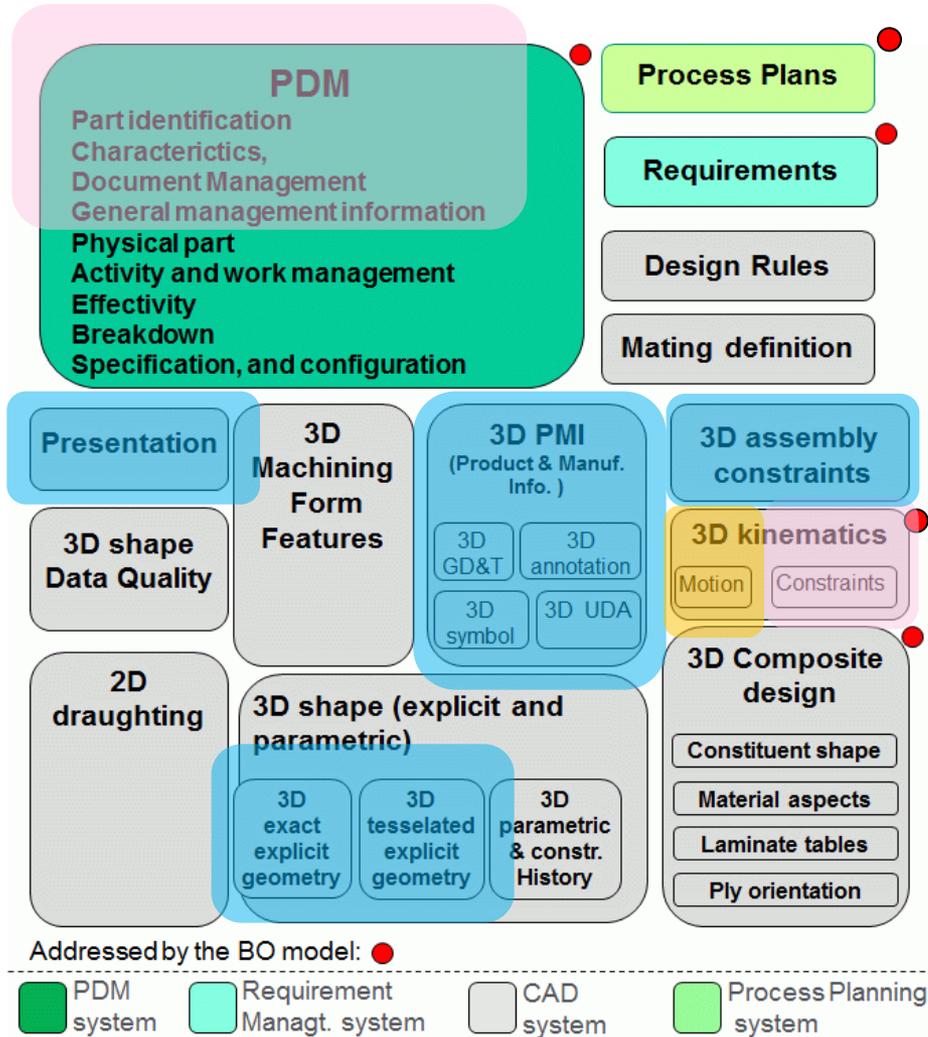


- PDM data
- Assembly structure
- Configuration management
- Change management

Using AP242 BO Model XML as data exchange format

AP242 Roadmap

Capabilities covered by COM/FOX



- Focus on CAD mechanical data + assembly structure + visualization
- Using AP242 BO Model XML as data exchange format for assembly structure + kinematics
- Using JT for geometry and PMI
- Using PLM XML for motion data
- from/to CATIA V5

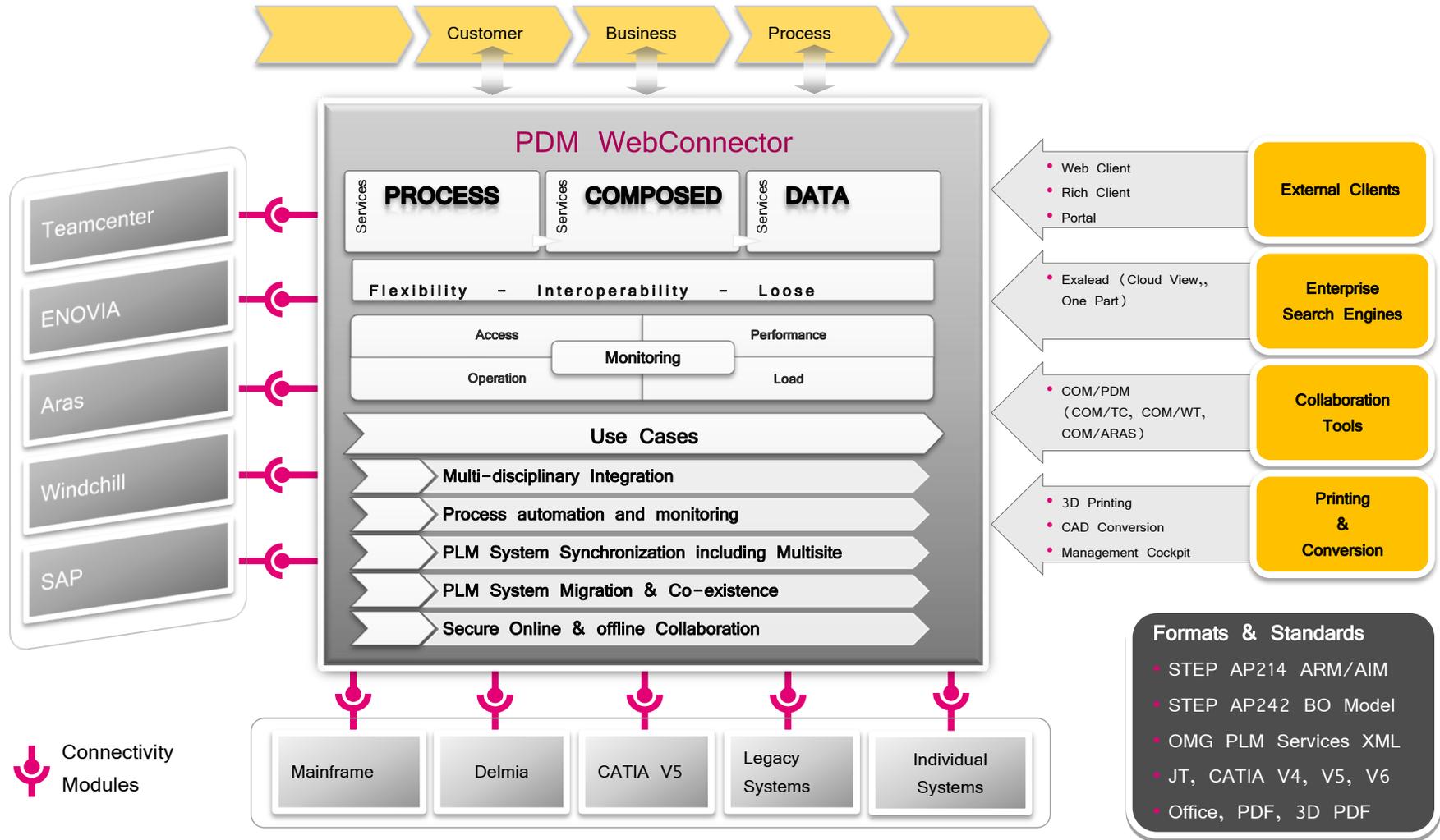
AP242 Roadmap

Availability

Product	Version	AP242 BO Model Rel.	Capabilities	Availability
COM/FOX	V5.5.2	IS Review	Assembly structure Nested Assembly Kinematics (Prototype)	March 7, 2014
	V5.5.x	IS	Assembly structure Nested Assembly Kinematics (Product)	Summer 2014
COM/PDM for: <ul style="list-style-type: none"> • Aras Innovator • Teamcenter UA • Windchill • Enovia 	V1.1 V9.4, V10 V9.x, V10.1x V8.x, V9.x, V10.x VPM V4, V6	IS	General Mgnt Info. Assembly structure Document Mgnt. <i>Configuration Mgnt.</i>	Fall 2014
PDM WebConnector	V3.8	IS	General Mgnt Info. Assembly structure Document Mgnt. <i>Change Mgnt.</i> <i>Configuration Mgnt.</i>	End of 2014

AP242 Roadmap

Covered Use Cases 1/2

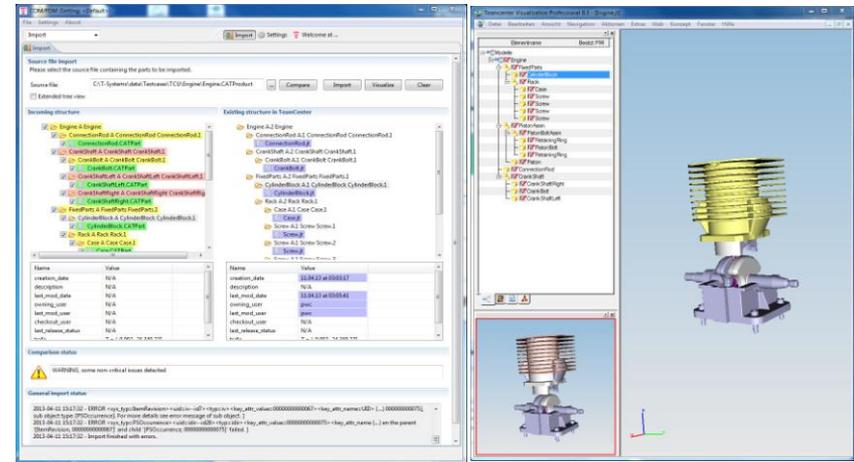


AP242 Roadmap

Covered Use Cases 2/2

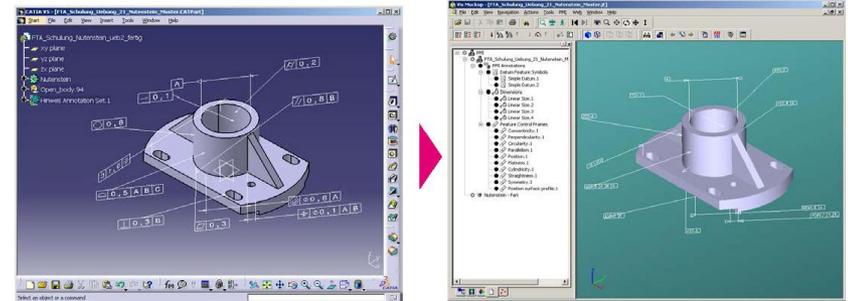
COM/PDM

- Asynchronous STEP data exchange for Supplier integration
- from/to Teamcenter UA, Windchill, Enovia VPM and Aras Innovator



COM/FOX

- CAx data migration (system A ↔ system B)
- CAx data conversion for visualization and Virtual Reality (VR)
- Internally between departments/applications or externally with suppliers/partners



THANK YOU!

Your contacts:

COM/FOX: Winfried.Weber@T-Systems.com

COM/PDM: Guillaume.Hirel@T-Systems.com

PDM WebConnector: Svilen.Georgiev@T-Systems.com

AP242 Steering Committee Member

+ PLM product Delivery Mgmt: Juergen.Mohrmann@T-Systems.com

T · · **Systems** ·

ISO STEP AP242

“Managed Model Based 3D Engineering”

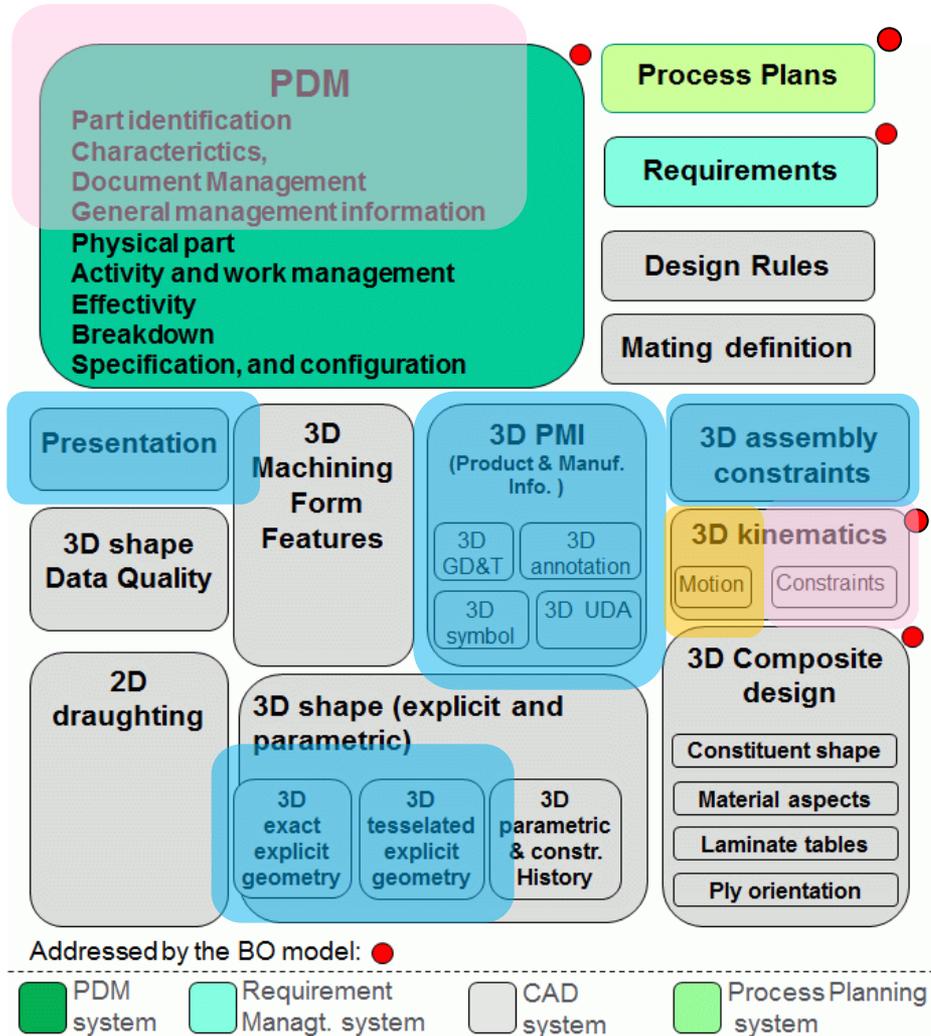
Demonstration

Paris, the 26th of March 2014

T · · Systems ·

AP242 Roadmap

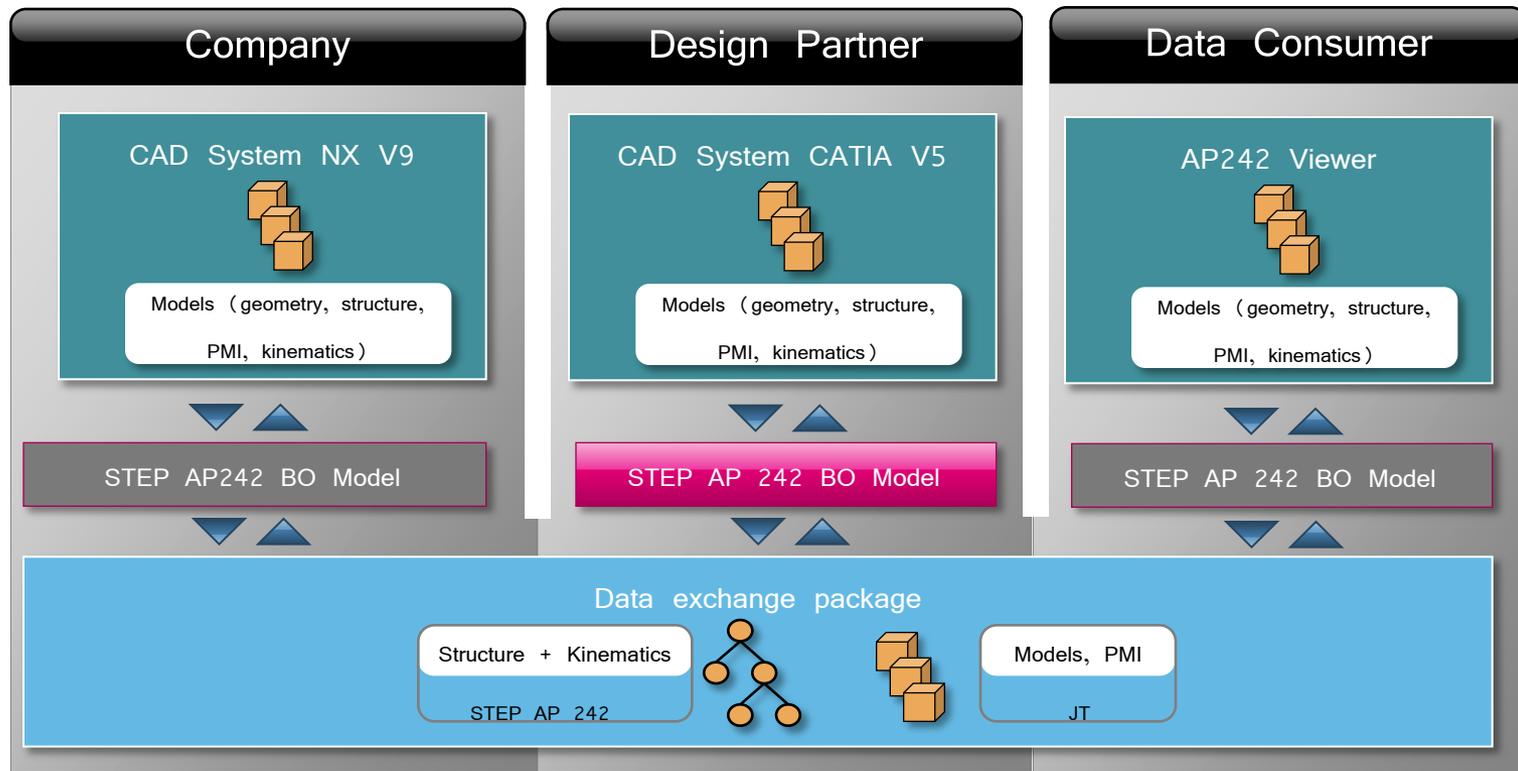
Capabilities covered by COM/FOX



- Focus on CAD mechanical data + assembly structure + visualization
- Using AP242 BO Model XML as data exchange format for assembly structure + kinematics
- Using JT for geometry and PMI
- Using PLM XML for motion data
- from/to CATIA V5

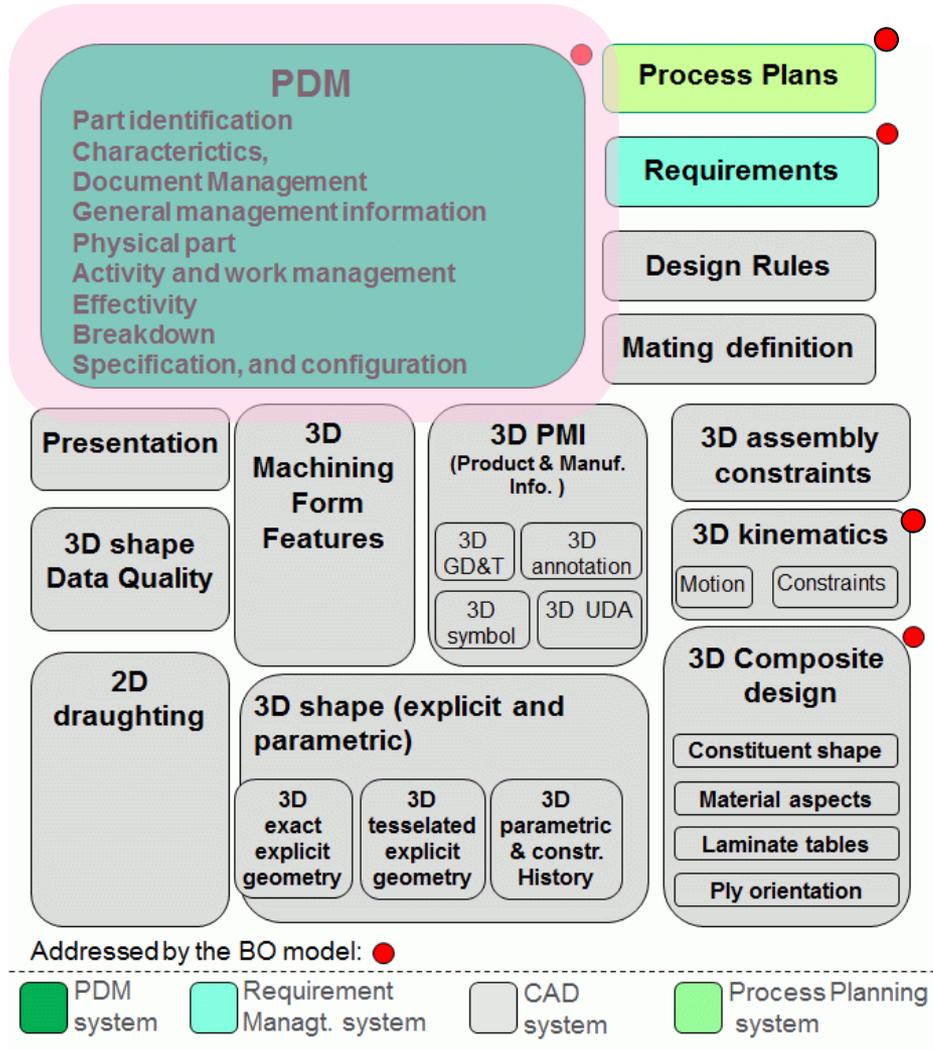
AP242 Roadmap

Demonstration COM/FOX ('Primary JT' at Daimler)



AP242 Roadmap

Capabilities covered by PDM WebConnector and COM/PDM



- PDM data
- Assembly structure
- Configuration management
- Change management

Using AP242 BO Model XML as data exchange format

AP242 Roadmap

Demonstration COM/PDM (Sample OEM–Supplier Scenario)

Imaginary Demonstration Scenario Overview

- Company Henry Mayer works together with suppliers Company FormLine and Company TrustDesign to design a new engine
- Company Henry Mayer uses **Teamcenter (UA)**
- Company FormLine has chosen **Aras Innovator** as its PLM system
- Company TrustDesign does not have a PDM system and therefore sends the data in **CATIA native format**
- After finishing the design, company Henry Mayer sends the engine assembly to FormLine in order for them to have the latest version.
- FormLine receives the assembly package, inspects it and imports the data into Aras.
- Meanwhile Henry Mayer has received a modification from TrustDesign, which TrustDesign would like to be considered in the assembly.
- The designer at Henry Mayer opens this package and checks its contents incl. the geometry files to decide, if the modification should be imported or not.