

TCI – 3DEXPERIENCE Teamcenter Integration

T-Systems PLM Applications

 **T Systems**



About T-Systems

T-Systems – Trusted Partner in Digital Transformation



Advisory



Security



Cloud
Services

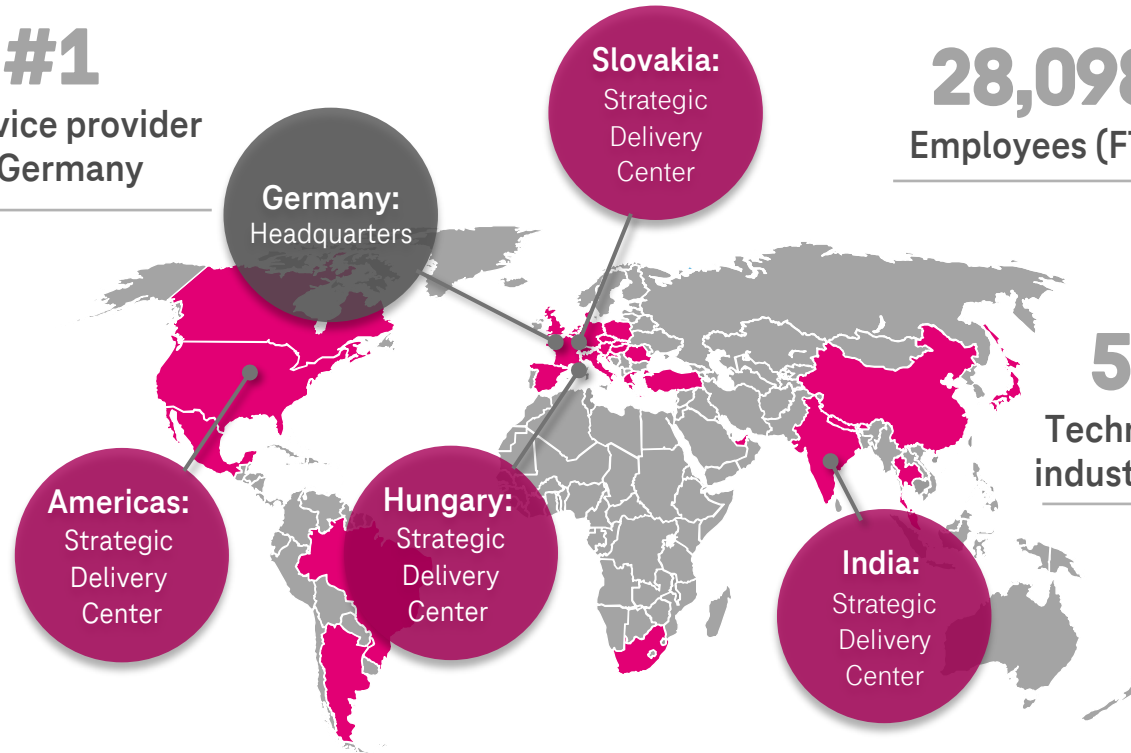
1010

Digital
Enabler

#1
IT Service provider
in DACH

20
Countries

#1
IT Service provider
in Germany



28,098
Employees (FTE)

500+
Technology and
industry partners

600+
PLM Experts

20+
Years of
experience in PLM

100+
PLM Success Stories

T-Systems PLM Solutions

**CUSTOMER
REFERENCES**



More than 500 PLM experts in our multiple PLM Competence Centers

T-SYSTEMS PLM OFFERING



**STRONG
PARTNERSHIPS**



T-Systems PLM Solutions – Partnerships

Siemens PLM Software

Technology
Partner

Digital Industries
Software



- Development Partnership
- Reseller Agreement for CMI
- Service Agreement
- JT Open Partner

Dassault Systèmes



- CAA V5 Gold Partner
- DS V6 apps Community Partner
- Service and Integration Agreement

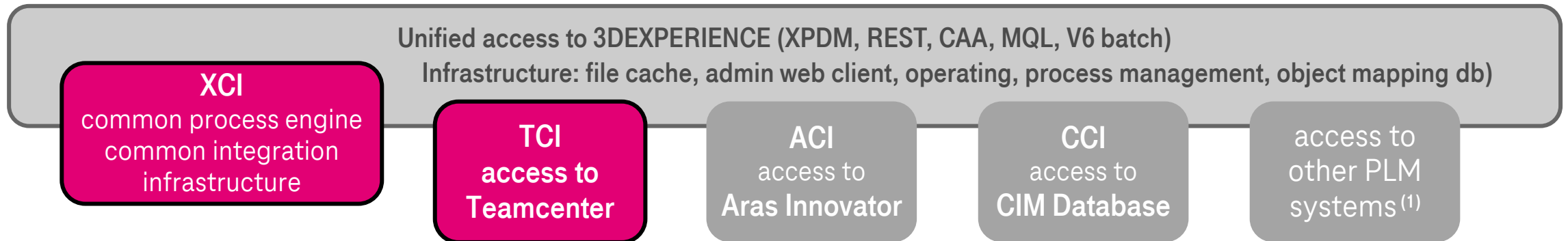
The Product

TCI – 3DEXPERIENCE Teamcenter Integration

XCI – 3DEXPERIENCE PDM Integration Product Family

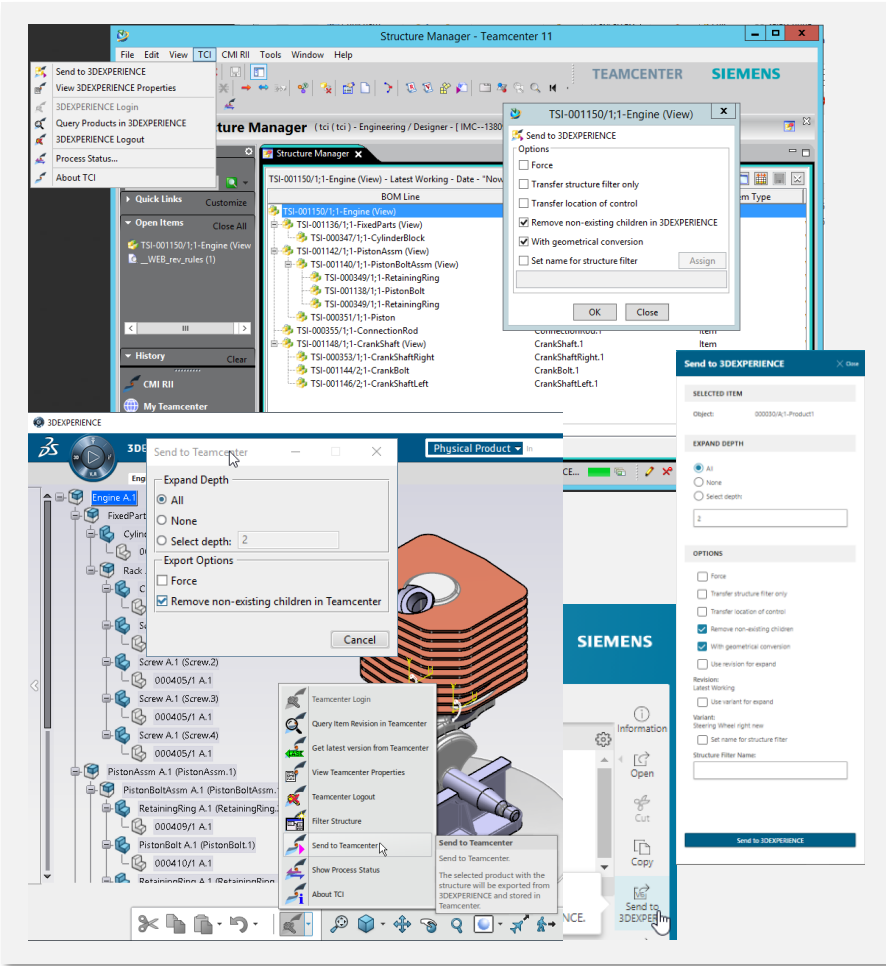
Unified access to 3DEXPERIENCE

- A dedicated solution to connect 3DEXPERIENCE to another PLM system
- Functional enhancements from all integrated PLM systems contribute to the solution
- The access to 3DEXPERIENCE is independent from the integrated PLM-system
- Combines specialized functionality within a common integration platform
- T-Systems is certified by Dassault Systems as Application Partner for the XCI integration software



⁽¹⁾ As project

TCI – 3DEXPERIENCE Teamcenter Integration Overview



3DEXPERIENCE Teamcenter Integration (TCI)

- Serves coexistence, cross-system border collaboration and migration scenarios
- Is highly configurable for object mapping
- Integrates CAD data format conversion in both directions via XCAD or external batch
- Supports exchange of configuration data (effectivity) and filtering
- Offers flexible support of customized data models
- Scheduled and triggered data transfer
- Compatible with TcIC (CATIA Manager) and CMI data model in Teamcenter

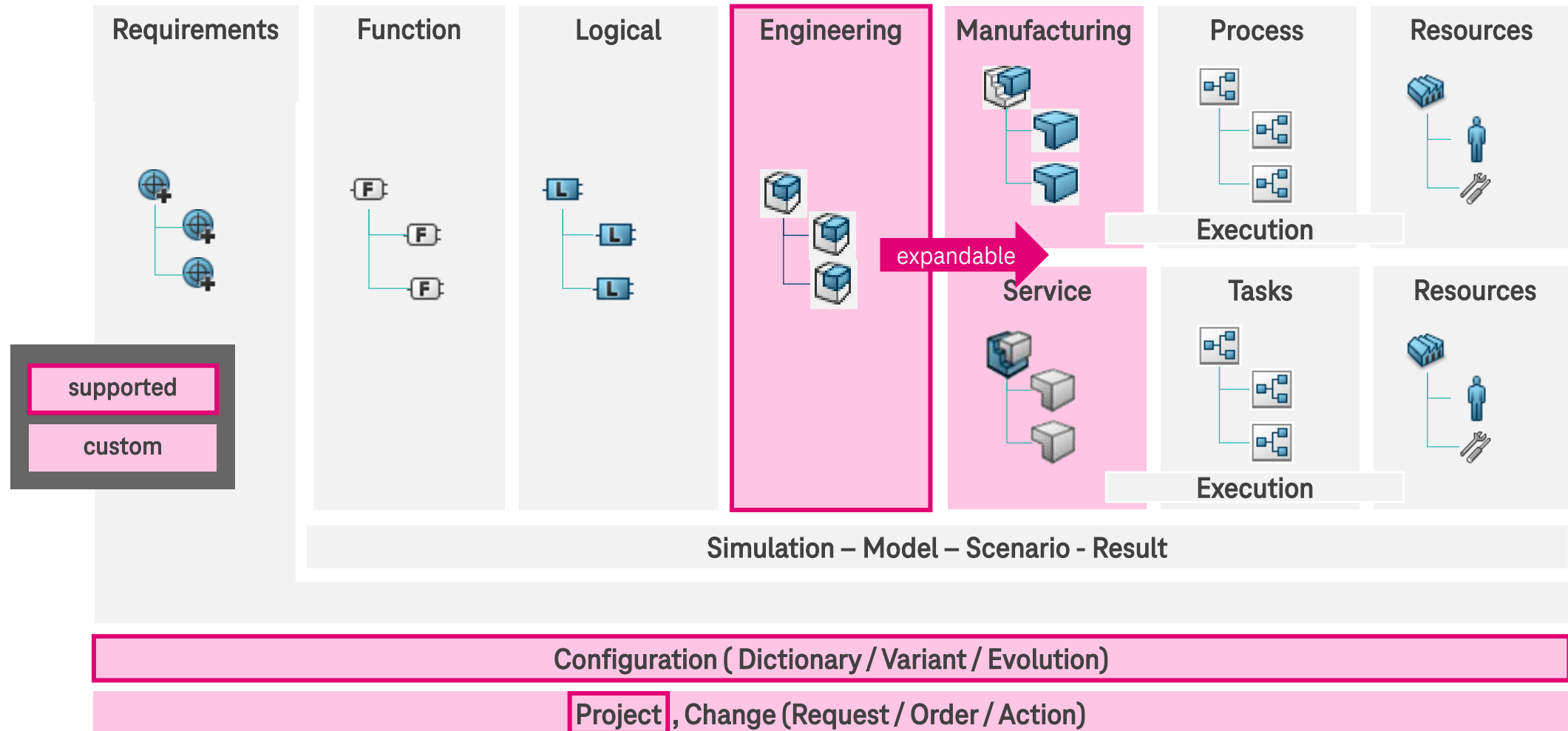
The integration is enhanced with interactive and synchronous functionality

- Seamlessly embedded into the Teamcenter Rich Client, Active Workspace and 3DEXPERIENCE Rich Client UI
- Administrative functionality in TCI web client

More information is available on: <https://plm.t-systems.net/tci>

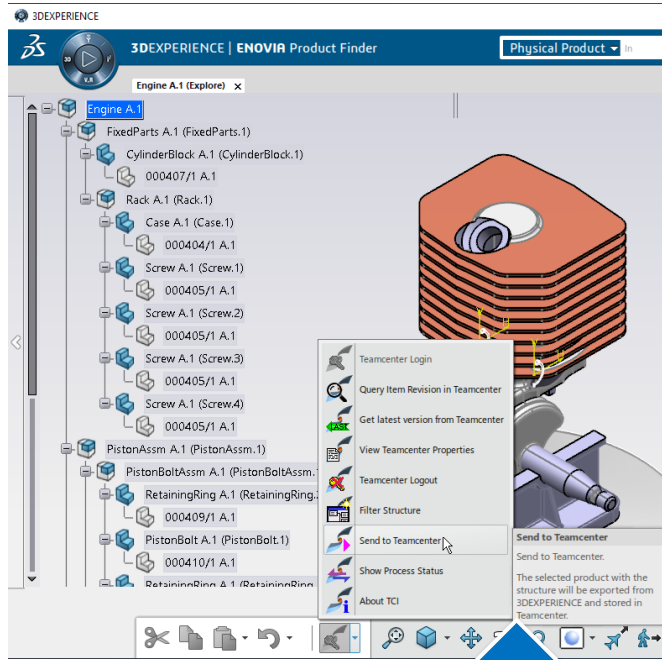
TCI – 3DEXPERIENCE Teamcenter Integration

Supported 3DEXPERIENCE domains



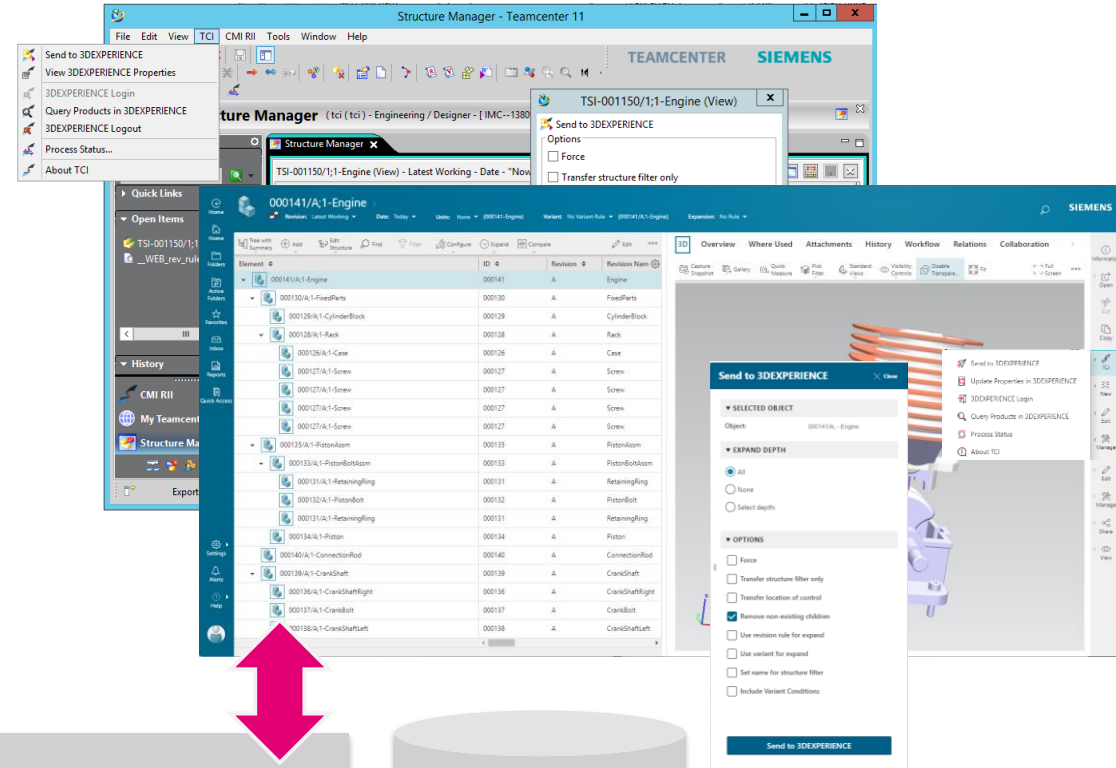
TCI – 3DEXPERIENCE Teamcenter Integration

Basic Data Exchange Concept



Mapping and Update of:

- Properties
- Revisions
- Product Structures
- V6 Maturity / TC Status
- V6 Workspace / TC Group



3DEXPERIENCE
database

3DEXPERIENCE
TDM/CAD System

Vault

TCI
mapping

TCI (meta data)

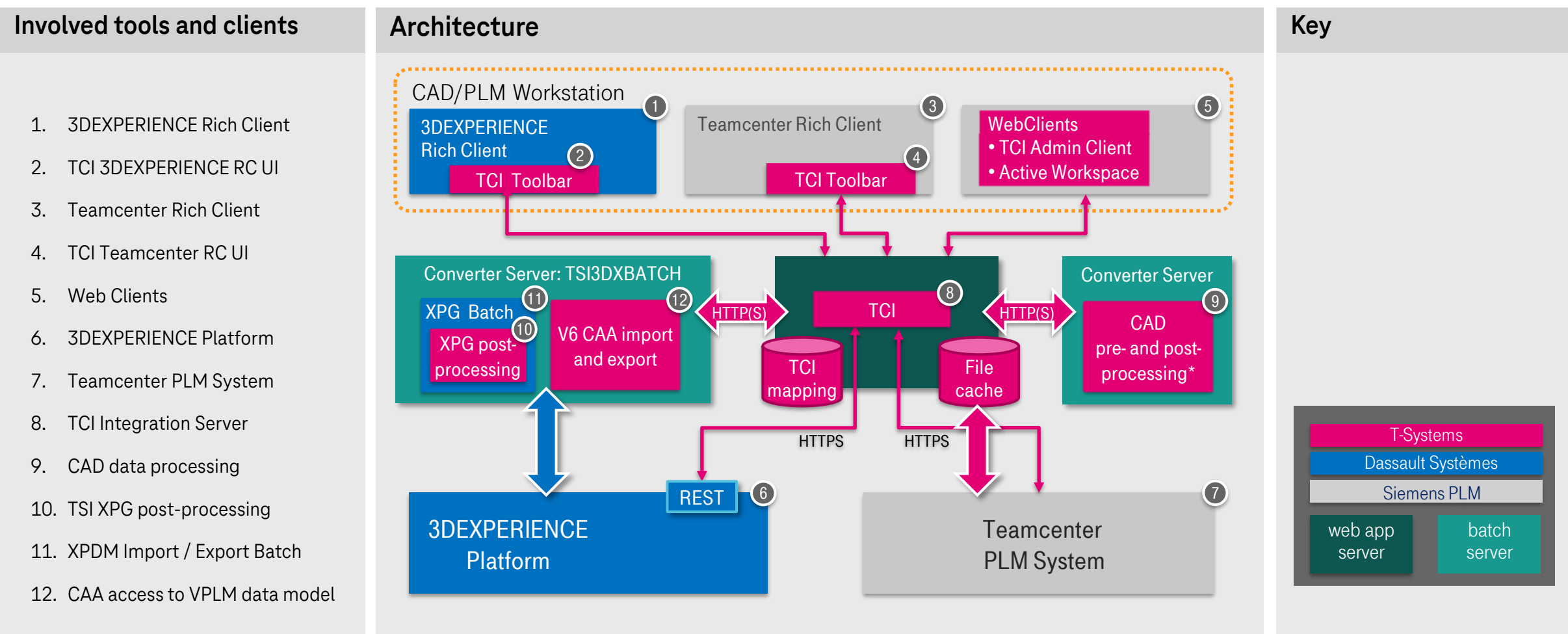
File cache
TCI (files)

Vault

Teamcenter PLM System

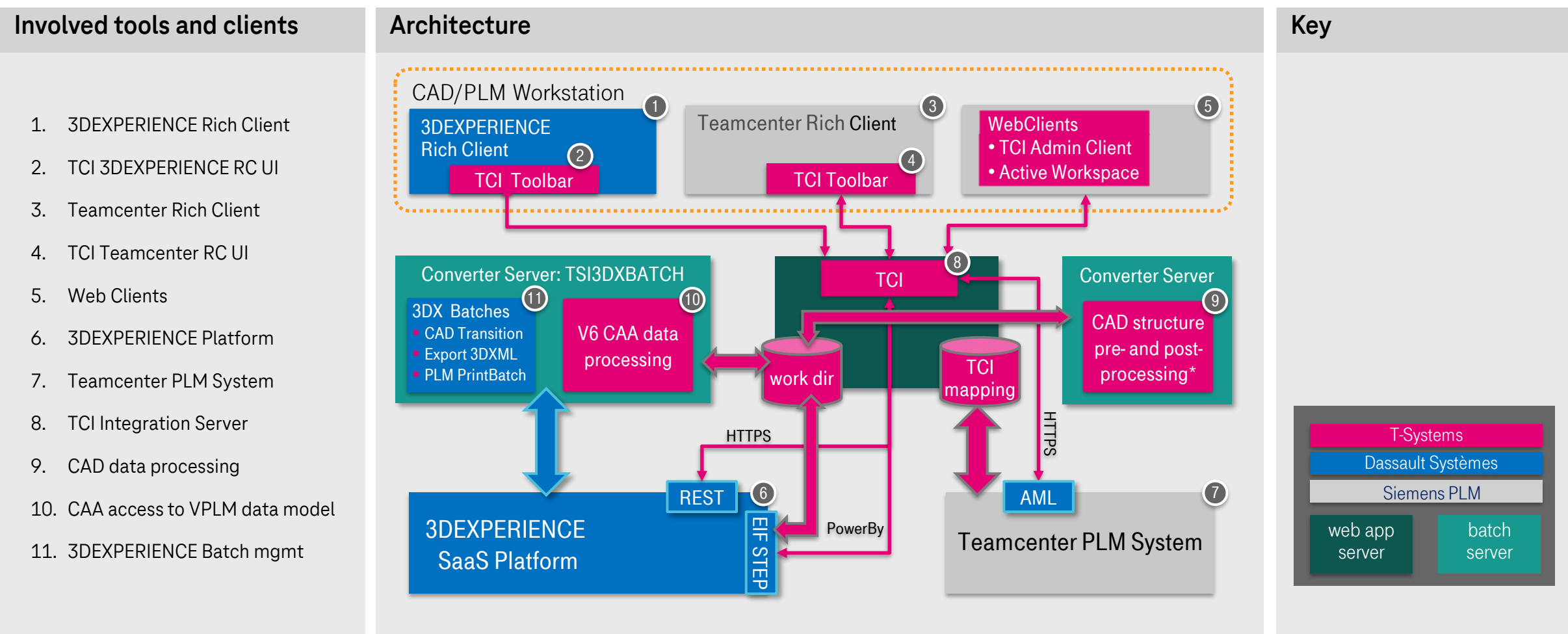
Teamcenter
database

TCI – 3DEXPERIENCE Teamcenter Integration Extended XPDM Architecture for Teamcenter



TCI – 3DEXPERIENCE Teamcenter Integration

Extended SaaS EIF Architecture for Teamcenter



TCI – 3DEXPERIENCE Teamcenter Integration Administration Client

The screenshot displays the TCI Administration Client interface. At the top, a navigation bar includes the TCI logo and menu items: About, Teamcenter, 3DEXPERIENCE, LIST, Process, Monitor, and Tools. A secondary menu on the right lists Operations Persistent, Configuration, and Job. A callout box above the navigation bar lists eight main functions: System Information, Access to Teamcenter, Access to 3DEXPERIENCE, List Processing, Process Management, System Monitoring, Cache and Configuration, and Initiate Data Transfers. The main content area is titled 'TCI · 3DEXPERIENCE Information' and shows a tree view of components. The selected component is 'prd-86726912-00002817 A.1 ConnectionRod'. To the right, a 'send to Teamcenter' dialog box is open, showing 'Expand Depth' options (All, None, Select depth) and 'Export options' (Force, Remove non-existing children in Teamcenter). A pink arrow points from the 'send to Teamcenter' button in the tree view to the dialog box.

Name	Value
ID	25060.11264.26307.21193
Type	VPMReference
Name	prd-86726912-00002817
Revision	A.1
Vault	vplm

TCI – 3DEXPERIENCE Teamcenter Integration

Teamcenter Active Workspace Client UI Extension

The screenshot displays the Teamcenter Active Workspace interface. On the left, a table lists various components of a helicopter assembly. The main area shows a 3D model of the helicopter. A context menu is open over the model, and a 'Send to 3DEXPERIENCE' dialog box is displayed in the foreground.

Element	ID	Revision	Revision Name
prd-23662527-00000689/A;2-Helicopter_Root	prd-23662527-00000689	A	Helicopter_Root
prd-23662527-00000579/A;2-Batterie	prd-23662527-00000579	A	Batterie
prd-23662527-00000581/A;2-Servomoteur Complet	prd-23662527-00000581	A	Servomoteur Complet
prd-23662527-00000584/A;2-Coque_complete	prd-23662527-00000584	A	Coque_complete
prd-23662527-00000587/A;2-Ensemble Pignon Axe Mot...	prd-23662527-00000587	A	Ensemble Pignon Axe Moteur
prd-23662527-00000576/A;2-ass pitch control servo	prd-23662527-00000576	A	ass pitch control servo
prd-23662527-00000549/A;2-Ensemble connecteurs mo...	prd-23662527-00000549	A	Ensemble connecteurs moteur
prd-23662527-00000549/A;2-Ensemble connecteurs mo...	prd-23662527-00000549	A	Ensemble connecteurs moteur
prd-23662527-00000564/A;2-261_Swash Plate Upper	prd-23662527-00000564	A	261_Swash Plate Upper
prd-23662527-00000563/A;2-028_Cyclic Level Ling	prd-23662527-00000563	A	028_Cyclic Level Ling
prd-23662527-00000563/A;2-028_Cyclic Level Ling	prd-23662527-00000563	A	028_Cyclic Level Ling
prd-23662527-00000591/A;2-Motor	prd-23662527-00000591	A	Motor
prd-23662527-00000565/A;2-026_Fix Rod	prd-23662527-00000565	A	026_Fix Rod
prd-23662527-00000593/A;2-Crochet_Type_1	prd-23662527-00000593	A	Crochet_Type_1
prd-23662527-00000593/A;2-Crochet_Type_1	prd-23662527-00000593	A	Crochet_Type_1
prd-23662527-00000565/A;2-026_Fix Rod	prd-23662527-00000565	A	026_Fix Rod
prd-23662527-00000562/A;2-074_Elevator Lever	prd-23662527-00000562	A	074_Elevator Lever
prd-23662527-00000620/A;2-Helice Arriere	prd-23662527-00000620	A	Helice Arriere
prd-23662527-00000620/A;2-Helice Arriere	prd-23662527-00000620	A	Helice Arriere
prd-23662527-00000624/A;2-Arbre Helice Queue	prd-23662527-00000624	A	Arbre Helice Queue
prd-23662527-00000628/A;2-Assemblage_62_63_64_954	prd-23662527-00000628	A	Assemblage_62_63_64_954
prd-23662527-00000561/A;2-075_Elevator Link	prd-23662527-00000561	A	075_Elevator Link
prd-23662527-00000599/A;2-Assemblage_49_50_51_52	prd-23662527-00000599	A	Assemblage_49_50_51_52
prd-23662527-00000608/A;2-Assemblage_54_58_59_29_...	prd-23662527-00000608	A	Assemblage_54_58_59_29_56_47A_48A_55
prd-23662527-00000611/A;2-Coulisseau 2	prd-23662527-00000611	A	Coulisseau 2
prd-23662527-00000615/A;2-Coulisseau Queue	prd-23662527-00000615	A	Coulisseau Queue
prd-23662527-00000559/A;2-040_Pitrh Rod	prd-23662527-00000559	A	040 Pitrh Rod

Send to 3DEXPERIENCE dialog box details:

- Selected Object:** prd-23662527-00000689/A;2-Helicopter_Root
- Expand Depth:**
 - All
 - None
 - Select depth
- Options:**
 - Force
 - Transfer structure filter only
 - Transfer location of control
 - Remove non-existing children
 - Set name for structure filter
 - Include Variant Conditions
- Revision:** Latest Working

3DEXPERIENCE Properties dialog box details:

- Object:** prd-23662527-00000689/A;2-Helicopter_Root
- Type:** VPMReference
- External ID:** prd-23662527-00000689
- Title:** Helicopter_Root
- Revision:** A.1
- Vault:** vplm
- Policy:** VPLM_SMB_Definition
- State:** IN_WORK
- Created:** 2024-06-27T14:33:05.000Z
- Modified:** 2024-06-27T14:33:24.000Z
- Owner:** paretz
- Organization:** Company Name
- Project:** TCI
- Description:**
- Location of control:** 3DEXPERIENCE

TCI – 3DEXPERIENCE Teamcenter Integration

3DEXPERIENCE Rich Client UI Extension

The screenshot displays the 3DEXPERIENCE Teamcenter Integration interface. The main window shows a 3D model of a helicopter assembly. On the left, a tree view lists the assembly components, including:

- Helicopter_Root B.1
 - Axe_Rotor A.1 (Axe_Rotor.1)
 - 041_Main Mast A.1 (041_Main Mast.1)
 - 041_Main Mast A.1
 - Materials
 - Connections of 041_Main Mast.1
 - 005_Center Hub A.1 (005_Center Hub.1)
 - 123_Center Hub Collar A.1 (123_Center Hub Collar.1)
 - 004_York A.1 (004_York.1)
 - 030_Swash Plate Center Ball A.1 (030_Swash Plate Center Ball.1)
 - 008_Spindle Shaft A.1 (008_Spindle Shaft.1)
 - 043_Oneway Shaft A.1 (043_Oneway Shaft.1)
 - 042_Washer 4x10x0.5mm A.1 (042_Washer 4x10x0.5mm.1)
 - 029_2x5.8mm Pin.2 A.1 (029_2x5.8mm Pin.1)
 - 009_P4 O-ring A.1 (009_P4 O-ring.1)
 - 009_P4 O-ring A.1 (009_P4 O-ring.2)
 - 010_Spindle shaft Collar A (Long Type) A.1 (010_Spindle shaft Collar A (Long Type).1)
 - 010_Spindle shaft Collar A (Long Type) A.1 (010_Spindle shaft Collar A (Long Type).2)
 - 034_Mast Spropper A.1 (034_Mast Spropper.1)
 - 044_Oneway Bearing A.1 (044_Oneway Bearing.1)
 - 045_Spur Gear (105T) A.1 (045_Spur Gear (105T).1)
 - Engineering Connections
 - 023_Mixing Base A.1 (023_Mixing Base.1)
 - Support_Ailes_De_Stabilisation A.1 (Support_Ailes_De_Stabilisation.1)
 - Ailes_De_Stabilisation B.1 (Ailes_De_Stabilisation)
 - Bras_Haut A.1 (Bras_Haut.1)
 - Bras_Haut A.1 (Bras_Haut.2)
 - Grandes_Ailes A.1 (Grandes_Ailes.1)
 - Grandes_Ailes A.1 (Grandes_Ailes.2)
 - 026_Fix Rod A.1 (026_Fix Rod.1)
 - 026_Fix Rod A.1 (026_Fix Rod.2)
 - 261_Swash Plate Upper A.1 (261_Swash Plate Upper.1)
 - 028_Cyclic Level Linq A.1 (028_Cyclic Level Linq.1)

Overlaid on the interface are several dialog boxes:

- Results from Teamcenter:** A table showing query results.

Object	Type	ID	Revision	Sequence ID	Creation Date	Owner	Gr
prd-23662527-00000689/A/2-Helicopter_Root	ItemRevision	prd-23662527-00000689	A	2	27-Jun-2024 18:51	tci (tci)	En
- Retrieve from Teamcenter:** A dialog box with options for Expand Depth (All, None, Select depth: 2) and Export Options (Force, Transfer structure filter only, Transfer location of control, Remove non-existing children in 3DEXPERIENCE, Use revision rule for expand, Use variant for expand, Set name for structure filter, Include Variant Conditions).
- Open related Object in Teamcenter:** A context menu with options like Teamcenter Login, Query Item Revision in Teamcenter, Get latest version from Teamcenter, View Teamcenter Properties, Teamcenter Logout, Open related Object in Teamcenter, Send to Teamcenter, Show Process Status, and About TCI.

Data and Technology

TCI – 3DEXPERIENCE Teamcenter Integration

TCI – 3DEXPERIENCE Teamcenter Integration

Processed Teamcenter Objects

Data objects

- Item
- Item Revision
- Datasets with Named References
- Forms (e.g., IMRF, IRF)
- Folders

Product structures and relations

- BOM View, BOM View Revision, PS-Occurrence
- TC 2007: BOM Line, BOM Window
- IMAN_specification, IMAN_Rendering (JT)

Configuration – “legacy” and Product Configurator

- Revision Rule, Stored Option Set
- Variant Rule
- Options, default Options
- Variant Conditions

Cross system Change processes*

- Change objects (e.g., ECN, ECO)

*in customer specific implementation projects

TCI – 3DEXPERIENCE Teamcenter Integration

Processed 3DEXPERIENCE Objects

Data objects

- Physical Product
- 3DPart
- Shapes
- Drawings
- Documents
- Bookmarks

Product structures and relations

- Physical Product instances
- 3DShape instances
- Drawing instances
- Document instances

Configuration - Evolution and Variants

- Model and Hardware Product
- Configuration Features
- Configuration Options
- Product Configuration
- Effectivity

Cross system Change processes*

- Change Action

*in customer specific implementation projects

TCI – 3DEXPERIENCE Teamcenter Integration

Low-Footprint Access To PLM Systems

Access to Teamcenter

SOA client framework and TC FCC

- Follows the Teamcenter rule tree
- Access rules can be configured at the Teamcenter server specifically for the SOA client
- SOA file APIs (uses Teamcenter File Cache Client)
- No direct data base access (e.g. via SQL)
- No Teamcenter server extensions, e.g. IDK Server customization
- Specific policy settings are supported!

Access to 3DEXPERIENCE

- REST API
- 3DEXPERIENCE batch infrastructure
- CAA Framework API
- No 3DEXPERIENCE server extensions required
- Access follows P&O rules

Only On Premise

- MQL web servlet API
- XPDM Interface with post-processing

Only for Public Cloud

- EIF STEP Export / Import

TCI – 3DEXPERIENCE Teamcenter Integration

Supported File Formats

Supported file formats

- 3DEXPERIENCE to Teamcenter
 - 3D: CATPart, 3DXML, JT*, STEP, CATProduct
 - 2D: CATDrawing, DWG, 2D PDF
 - Any other non-CAD formats
- Teamcenter to 3DEXPERIENCE
 - 3D: CATPart, CATProduct, CATIA V4 model, JT
 - 2D: CATDrawing
 - Any other 3D CAD format**
 - Any other non-CAD formats

* T-Systems' COMFOX JT Converter

** 3rd party converters

Release Plan

3DEXPERIENCE Teamcenter Integration

TCI – 3DEXPERIENCE Teamcenter Integration

Supported Software Versions

Continuously developed product (see release plan for details)

- Support of the four latest 3DEXPERIENCE Platform releases
- Support of the four latest Teamcenter releases
- Older releases on request (down to 3DEXPERIENCE R2019x and Teamcenter 10.2)
- Flexible combination of Teamcenter and 3DEXPERIENCE versions

TCI – 3DEXPERIENCE Teamcenter Integration Roadmap 2025

V 3.13 / 3.14 – Supported PDM System Versions

Teamcenter (4-tier) 12.x⁽²⁾, 13.x⁽²⁾

Teamcenter (4-tier) 14.x, 2312, 2406, 2412

Teamcenter Active Workspace 6.2, 6.3, 2312, 2406, 2412

3DEXPERIENCE R2019x⁽²⁾, R2020x⁽²⁾, R2021x⁽²⁾

3DEXPERIENCE R2022x, R2023x, R2024x, R2025x

3DEXPERIENCE Public Cloud (2025x)

⁽¹⁾ With availability

⁽²⁾ On demand

V 3.14 – Selected Features

- Retry option for process view in TCI admin client
- 3DX Public Cloud support
 - Import and export of custom properties
 - Various improvements for import and export processing

V 3.13 – Selected Features

- Independent configuration for mapping and connection
- 3DX Public Cloud support
 - Import of Teamcenter managed NX data with PowerBy support
 - Custom attribute mapping for Cloud/STEP Export
- Support file conversion for Documents

Q1 2025

Q2 2025

Q3 2025

Q4 2025

TCI – 3DEXPERIENCE Teamcenter Integration Roadmap 2024

V 3.11 / 3.12 – Supported PDM System Versions

Teamcenter (4-tier) 12.x, 13.x, 14.x

Teamcenter (4-tier) 2312, 2406

Teamcenter Active Workspace 6.2, 6.3, 2312, 2406

3DEXPERIENCE R2019x⁽²⁾, R2020x⁽²⁾

3DEXPERIENCE R2021x, R2022x, R2023x, R2024x, R2025x⁽¹⁾

3DEXPERIENCE Public Cloud (2025x)

⁽¹⁾ With availability

⁽²⁾ On demand

V 3.12 – Selected Features

- Enhanced 3DX Cloud support
 - STEP Import: import unmodified Parts "as Reference"
 - Improved performance with REST services
- Simplified configuration

V 3.11 – Selected Features

- Teamcenter Import Mapping improvements:
 - Collaborative Spaces to Teamcenter Projects
 - Instance properties to Occurrence and Notes
 - Units of attributes
- Split Level option for data transfer of large structures from 3DX to TC
- Export of CGR from 3DX with REST services
- Support for Teamcenter Product Configurator

Q1 2024

Q2 2024

Q3 2024

Q4 2024

Commercial Aspects

3DEXPERIENCE Teamcenter Integration

XCI – 3DEXPERIENCE PDM Integration Product Family Evaluation Support

T-Systems is not a vendor of a PLM system but a vendor-neutral integrator. T-Systems consults and supports customers with decision making. In comparison with PLM systems the TCO of the offered integration product is low. To evaluate and to use the T-Systems' integration products is a value by itself as it reveals weaknesses and strengths of the integrated PLM systems and its concepts. It helps the customer to understand and to define their needs and use cases better in a concrete and practical way. T-Systems TCI integration can transform the gained industrial expertise and make it available for customers.

3DEXPERIENCE – required licenses

On Premise

Product	Trigram
Collaborative Business & Industry Innovation, includes: CSV (Platform Contributor) IFW (Platform Member)	PCS
Engineering Adapter for X-PDM	MUX (not required for XPDM import with POWER'BY)
Engineering Data Exchange Manager	EXH (not required for XPDM import with POWER'BY)
Optional	
Product Manager	PDM (for Configuration / Variant Management)(required for authoring only)
Collaborative Designer for CATIA V5	UE5 (for CATIA V5 POWER'BY import)
Conversion Data Integrator	FO* (for XCAD conversion of specific format, e.g., FOJ for JT support)

3DEXPERIENCE – required licenses

Public Cloud

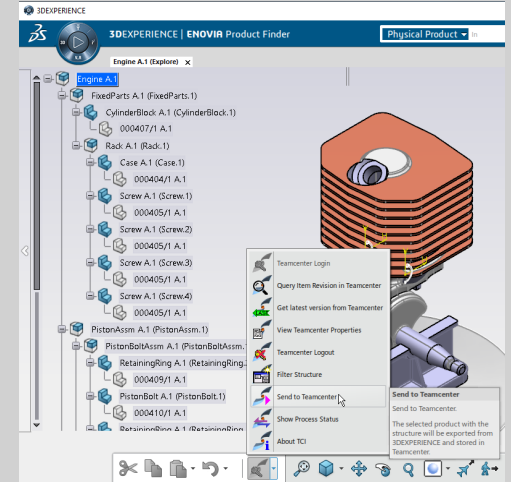
Product	Trigram
Collaborative Business & Industry Innovation, includes: CSV (Platform Contributor) IFW (Platform Member)	PCS-OC
Optional	
Enterprise IP Exchange Manager	XXH-OC (only for EIF STEP export/import)
Enterprise IP Exchange Package	XXK-OC (only for EIF STEP export)
Engineering Data Exchange Manager	EXH-OC (only for file batch export)

Teamcenter –3DEXPERIENCE / CATIA V6 Integration (TCI) Installation and Configuration Package



15-days installation and configuration package

- ✓ Installation and configuration in an existing Teamcenter environment
- ✓ Configuration of T-Systems' TCI and Teamcenter
- ✓ Customization as required
- ✓ Initial test of the environment
- ✓ Training on the environment and maintaining of TCI



Easy Configuration & Installation
→ either by the customer or with the help of T-Systems experts.



T-Systems Product Support
with product and industry expertise
are available whenever needed

TCI – 3DEXPERIENCE Teamcenter Integration

Services around the Integration – Functional Enhancement

Express Installation Package

Out of the Box (OOTB)

The TCI product comes with many OOTB functionality, which is defined as such:

- After installation and setup at the customer site the respective use case is working without need to modify the integration software
- A clear 1:1 mapping is available in both the standard 3DEXPERIENCE and Teamcenter data models.
- The OOTB functionality is maintained for new versions of Teamcenter and 3DEXPERIENCE by T-Systems.

Configuration and Customization

To adapt the Integration to the needs of the customer. Such services are usually performed during an initial support project.

Configuration

- Will satisfy use cases by modifying the TCI configuration files (data mapping file) or integration setup (eg., batch modules used).
- Covers any data model customizations in 3DEXPERIENCE or Teamcenter

Customization

- Ad-hoc implementation for small custom-specific changes in the behavior which differ from the standard behavior of the integration

Custom Project

Functional Enhancement

In addition to the standard services T-Systems offers extended services to satisfy additional use cases

- To cover a specific use of functionality in one or both PLM systems (Teamcenter or 3DEXPERIENCE) that is not commonly used or deprecated.
- To cover scenarios where there is no direct match of the functionality in the other PLM system.
- When new functionality is required outside of the regular release cycle of the software (which requires a customer-specific release).

Customer References

3DEXPERIENCE PLM Integration

XCI – 3DEXPERIENCE PLM-Integration

Key References



Automotive OEM

TCI –3DEXPERIENCE Teamcenter Integration

United Kingdom, in use since 2014, company license

Full scale migration of configured vehicle structures and back-propagation of changes



Jewelry Manufacturer

ACI –3DEXPERIENCE Aras Innovator Integration

Valenza in Italy, in use since 2016, one server license, 13 user licenses

3DEXPERIENCE Cloud design structures are updated to a marketing BOM in Aras Innovator



Mahindra

Automotive OEM

TCI –3DEXPERIENCE Teamcenter Integration

India, in use since 2022, one server license

Full scale migration of configured vehicle structures with classification



翌耀科技

Easun Technology

CCI –3DEXPERIENCE CIM Database Integration

China, in use since 2022, one server license, 10 user licenses

Export of 3DEXPERIENCE product structures and import as CIM DB Document Structures with Part creation. Export of various file formats, also for visualization in CMI DB

Jaguar Land Rover PLM Migration Toolset



Customer

Jaguar Land Rover, owned by Tata Motors Limited, is the UK's largest automotive manufacturing business, built around two British car brands. Production sites are located in the UK, India and China with local assembly facilities in Kenya, Malaysia, Pakistan and Turkey. Jaguar Land Rover employs a team of 26,000 people globally and supports more than 190,000 UK jobs through the supply chain, dealer network and wider economy.

The Challenge

- Migrate up to two million vehicle structure datasets from existing Teamcenter Engineering system to 3DEXPERIENCE Product Lifecycle Management (PLM) within the next three years
- Phased migration of sixteen complete vehicle programs from Teamcenter to 3DEXPERIENCE with systems coexisting during migration and with bi-directional synchronization of modified data

The Solution

- Consulting services and toolset to perform the phased migration
- Definition and implementation of dedicated migration processes executed with the T-Systems product PDM WebConnector
- Implementation of bi-directional synchronization
- Migration of PDM (part master, product structure, configuration data) and CAD data, including background data conversion during migration

The Benefits

- Increased efficiency through consolidation of disparate CAD and manufacturing systems in single Product Lifecycle Management solution
- No interruption to normal business during phased transition from Teamcenter to 3DEXPERIENCE
- Traceability of migrated vehicle structures at process level
- Allows system coexistence for smooth and flexible transition of vehicle programs

Cloud Use Cases

3DEXPERIENCE Teamcenter Integration

Cloud Exchange Scenario (Loop Back) Teamcenter to 3DEXPERIENCE Cloud (with IEF STEP Import - Power'By)

1

1) Export CATIA V5 PS from Teamcenter

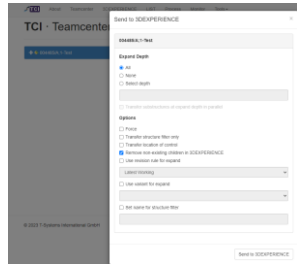
2

2) Import PS to 3DX with STEP EIF as CATIA V5 POWER'BY

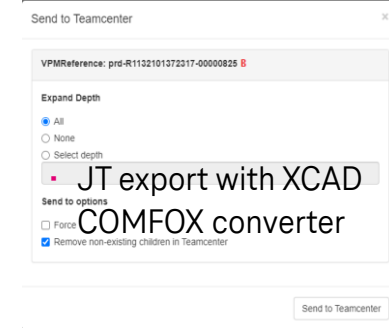
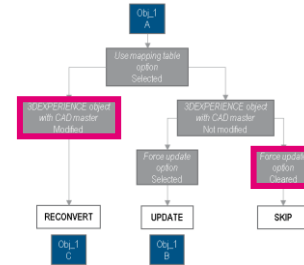
3

3) Run manually Transition batch to get PS with native V6 Revisions

4) Export revised / new V6 PS from 3DX as JT



Title	IT Type	Status	Progress	Creation Date	Start Date	End Date
2023-05-10_10-10-00_100111466.apb	Import	Completed	100%	May 11, 2023, 10:10:15 AM	May 11, 2023, 10:10:11	May 11, 2023, 10:10:14 AM



X

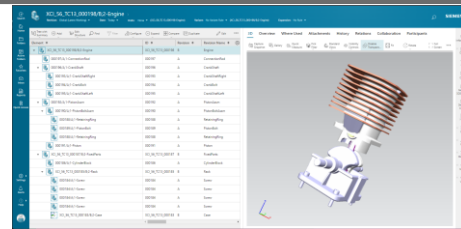
DS / Customer

X

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6) PS with JT available in Teamcenter and TC Visualization



5) Import 3DX PS with JT to Teamcenter

- 3DX Part will be stored as new Item Revision in to originating Item in Teamcenter

Principles

- Once a TC Items Revision was sent to 3DX and was CAD-mastered as new Revision it can only be revised in 3DX but not in TC (like with cLoC)
- TC Item Revisions that were received from 3DX will never be sent back to 3DX (only JT file dataset)
- 3DX-mastered child-Item Revisions (only JT file dataset) in a TC product structure will be assembled in 3DX with STEP Import but not imported again

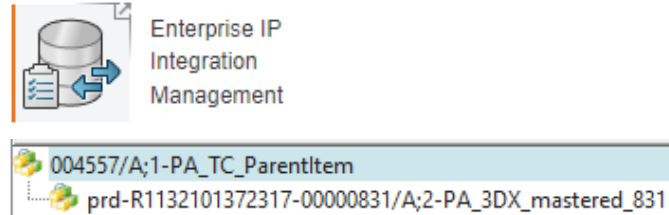
Cloud Exchange Scenario (Loop Back)

Identify 3DX-mastered Products at EIF STEP Import

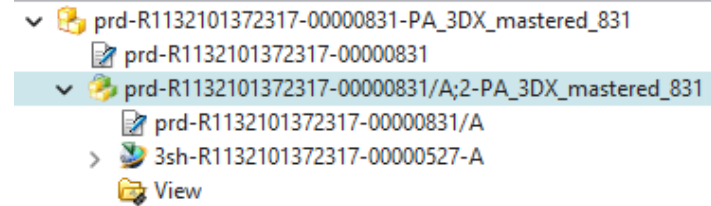
1) Create new 3DPart in 3DX and save

Physical Product
PA_3DX_mastered_831
prd-R1132101372317-00000831
A.1

2) Transfer 3DPart to TC with STEP EIF Export as CATPart



3) Assemble the Item Revision in an existing TC PS



- In TC a new Item Revision with CATPart as dataset is created

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5) CAD Master will create a native V6 PS that includes the original 3DPart Version

4) Transfer the TC PS to 3DX with EIF STEP Import

(4) EIF STEP Import

The original 3DX identifier (TNR) is provided.

The 3DX mastered object is not imported again.

The STEP Import searches for the 3DPart and assembles the 3DPart to the imported structure.

Thank you!

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3DEXPERIENCE Teamcenter Integration

<https://plm.t-systems.net/tci>