

ACI – 3DEXPERIENCE Aras Innovator Integration

T-Systems PLM Applications

 **T Systems**

Let's power
higher performance



About T-Systems

T-Systems – Trusted Partner in Digital Transformation



Advisory



Security



Cloud
Services

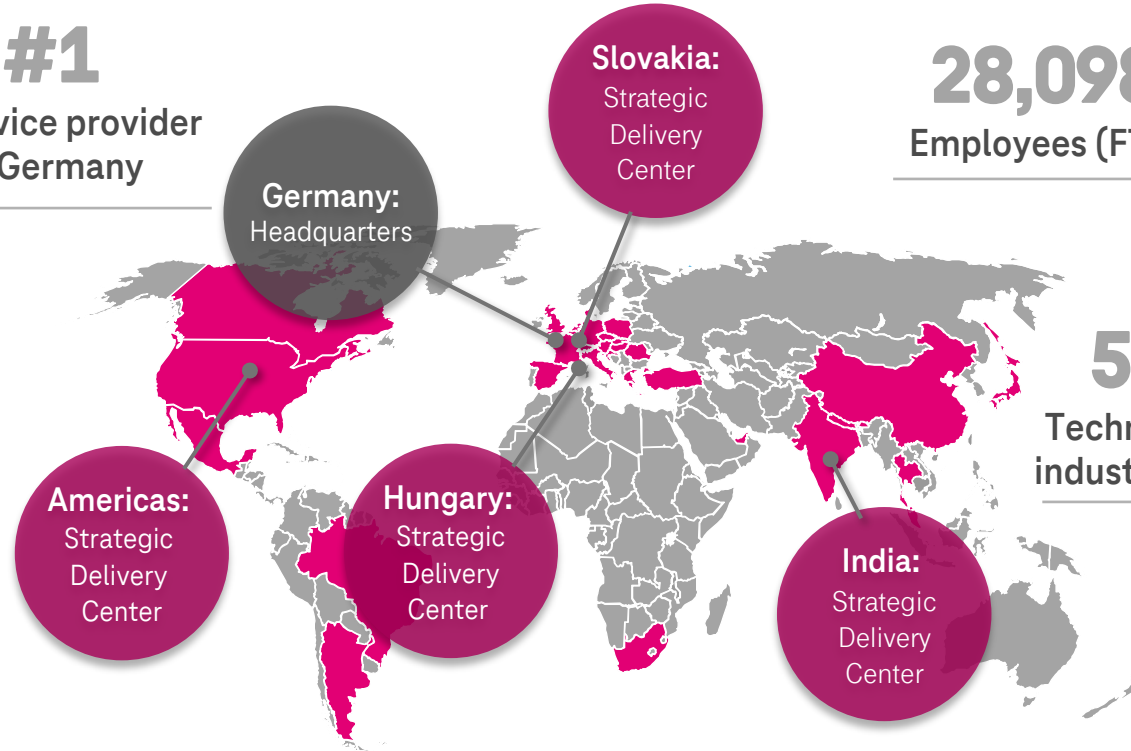
1010

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

700+
PLM Experts

20+
Years of
experience in PLM

100+
PLM Success Stories

T-Systems PLM Solutions

**CUSTOMER
REFERENCES**



More than 700 PLM experts in our multiple PLM Competence Centers

T-SYSTEMS PLM OFFERING



**STRONG
PARTNERSHIPS**



T-Systems PLM Solutions

Our Partners

Aras Corp.



- Aras Business Partner
- Aras Solution Partner
- Reseller Agreement

Dassault Systèmes



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

The Product

3DEXPERIENCE Aras Innovator Integration

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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

Unified access to 3DEXPERIENCE (XPDM, ADK, CAA, web services, converters, file cache, web client, operating, mapping)

XCI

common process engine
common integration
infrastructure

ACI

access to
Aras Innovator

TCI

access to
Teamcenter

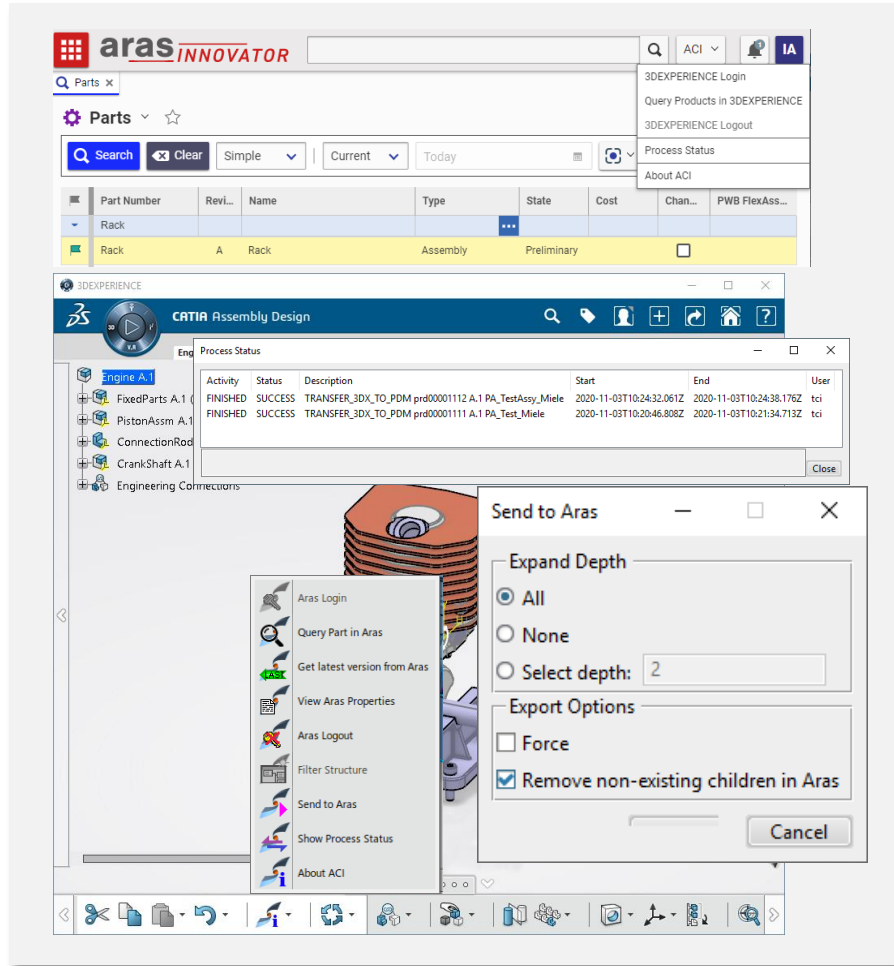
CCI

access to
CIM Database

access to
other PLM
systems¹

(¹) As project

ACI – 3DEXPERIENCE Aras Innovator Integration Overview



3DEXPERIENCE Aras Innovator Integration (ACI) is a standard product

ACI integrates asynchronously in the background

- Serves coexistence, cross-system border collaboration and migration scenarios
- Configurable for custom object, life cycle, revision, attribute mapping
- Integrates CAD data format conversion in both directions
- Supports exchange of configuration data (effectivity) and filtering
- Offers flexible support of customized data models
- Scheduled and triggered data transfer

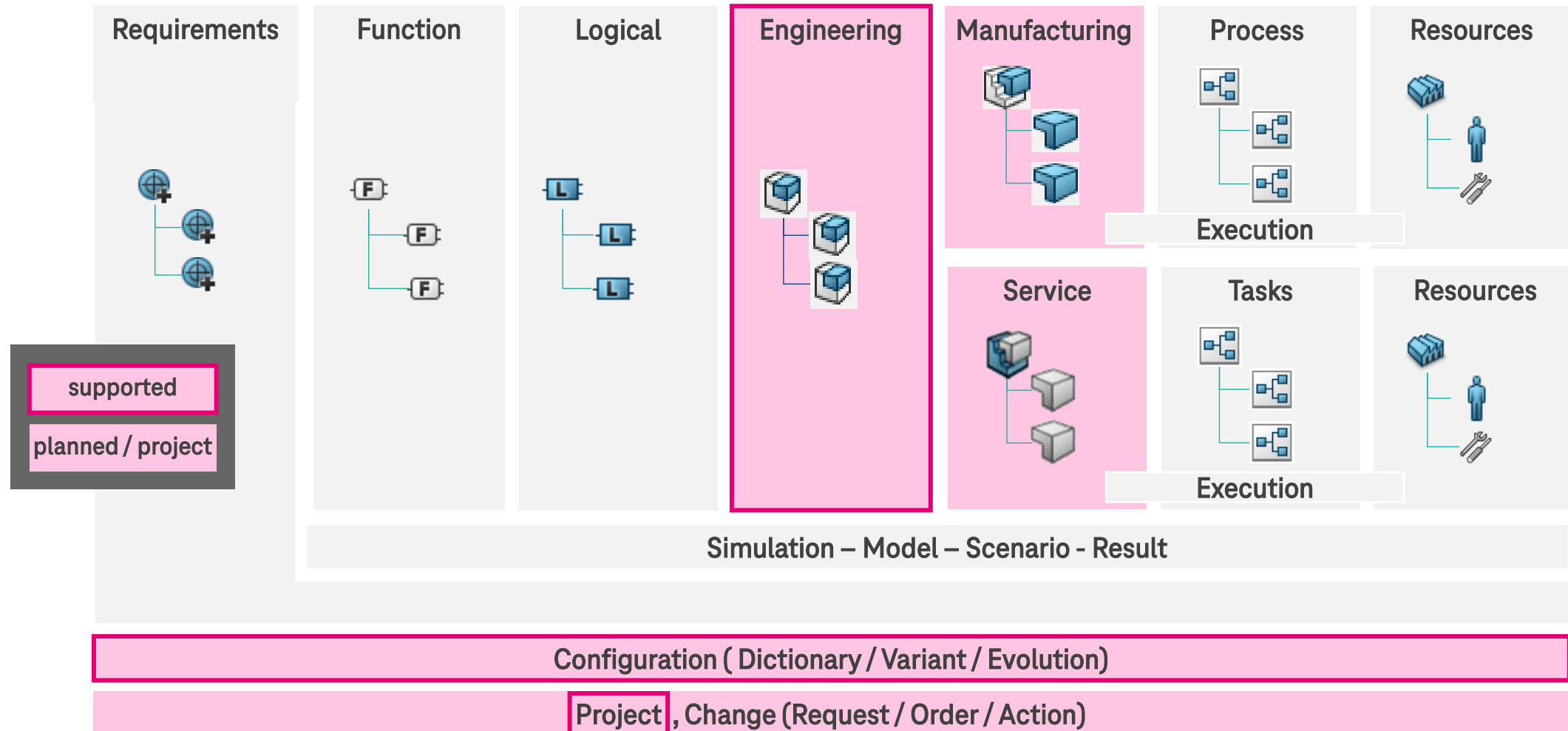
The integration is enhanced with interactive and synchronous functionality

- Client UI for Aras Innovator client and 3DEXPERIENCE Rich Client UI
- Administrative functionality in ACI web client

More information is available on: [3DEXPERIENCE Aras Innovator Integration](#)

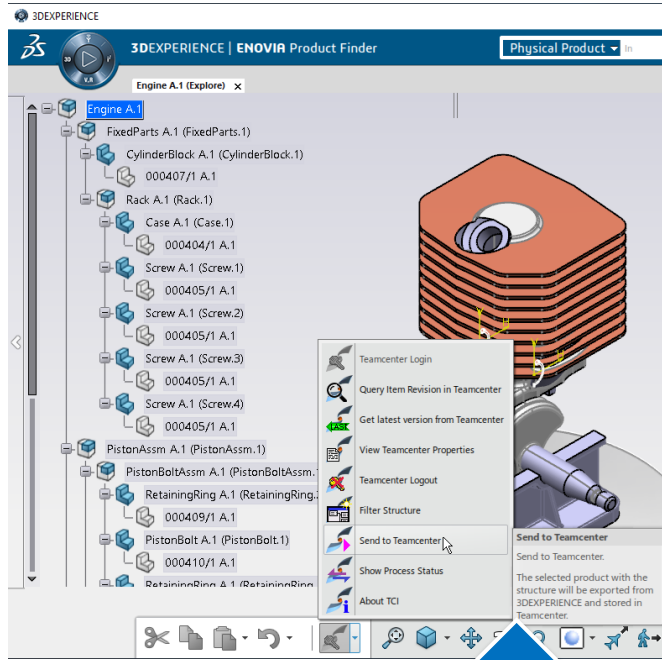
ACI – 3DEXPERIENCE Aras Innovator Integration

Supported 3DEXPERIENCE domains



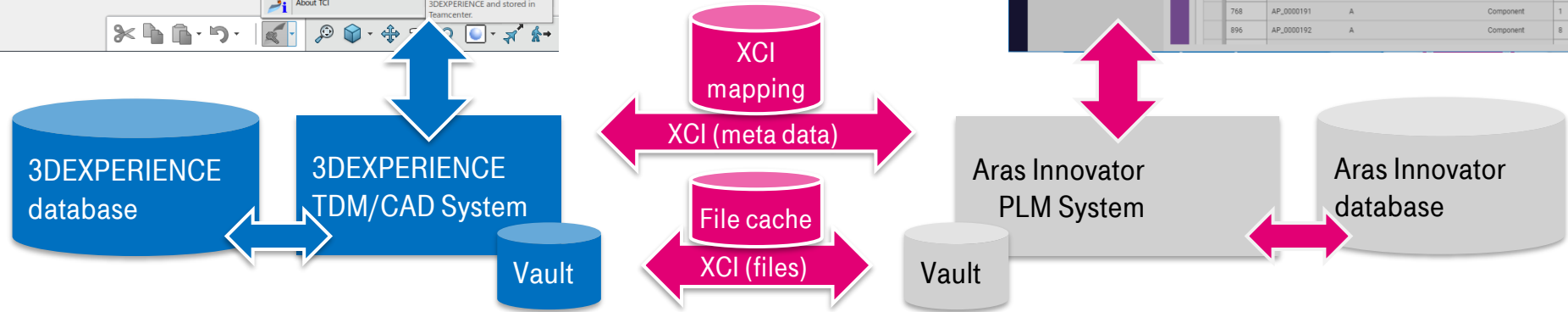
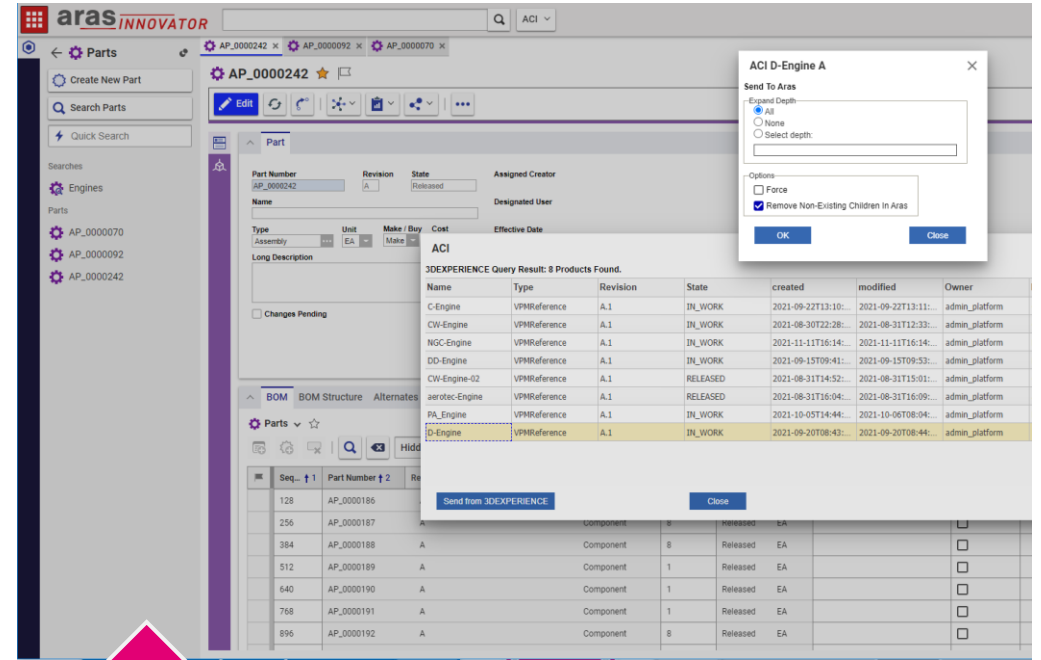
ACI – 3DEXPERIENCE Aras Innovator Integration

Basic Data Exchange Concept



Mapping and Update of:

- Properties
- Revisions
- Product Structures
- V6 Maturity / LC Status
- V6 Workspace / User Group



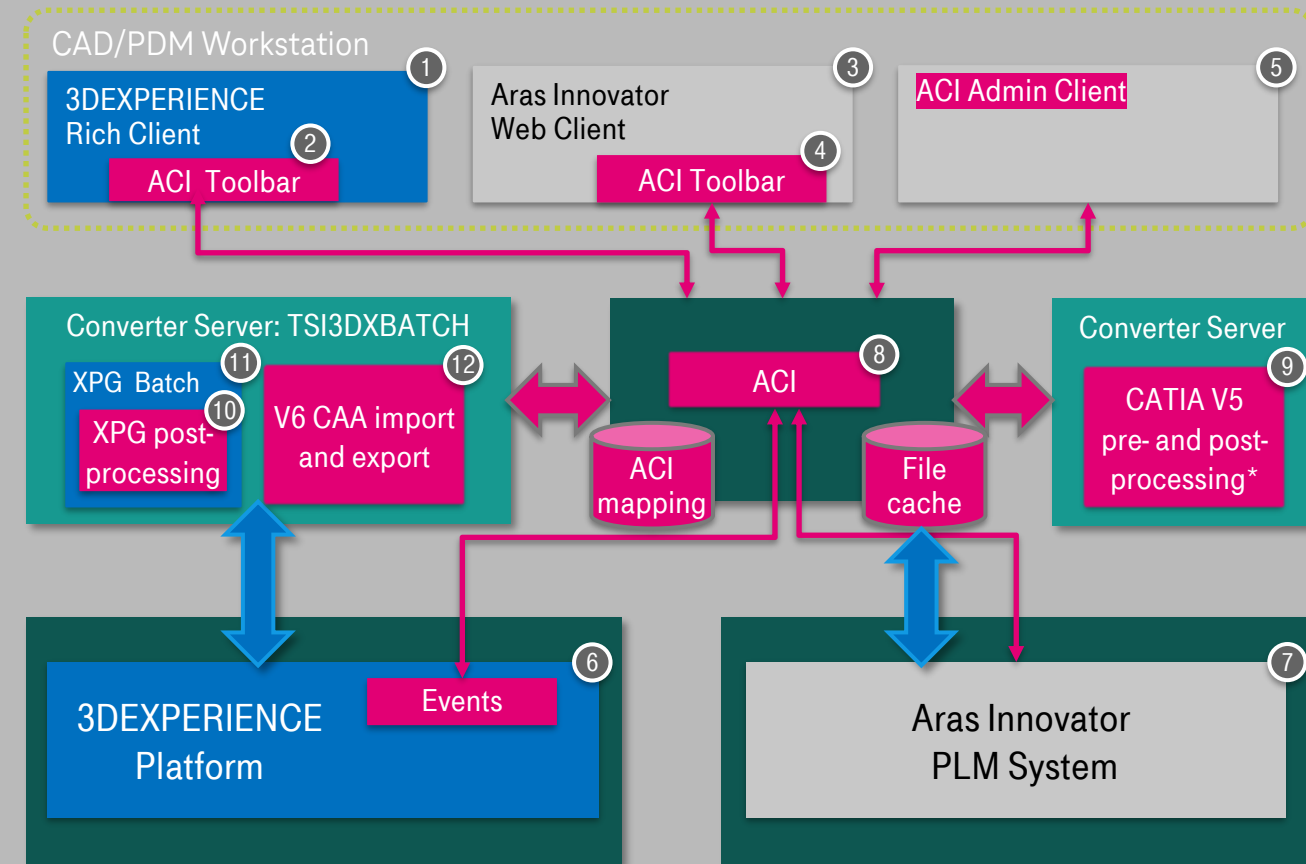
ACI – 3DEXPERIENCE Aras Innovator Integration

Extended XPDM Architecture for Aras Innovator

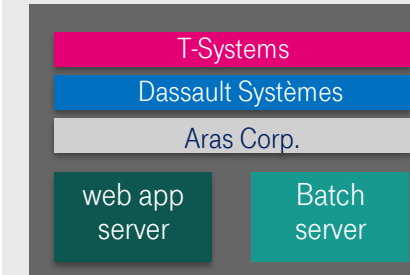
Involved tools and clients

1. 3DEXPERIENCE Rich Client
2. ACI 3DEXPERIENCE RC UI
3. Aras Innovator Web Client
4. ACI Aras Innovator Add In
5. ACI Admin Client
6. 3DEXPERIENCE Platform
7. Aras Innovator PLM System
8. ACI Integration Server
9. CATIA V5 CAD data processing
10. TSI XPG post-processing
11. XPDM Import / Export Batch
12. CAA access to VPLM data model

Architecture



Key



ACI – 3DEXPERIENCE Aras Innovator Integration

Processed Aras Innovator Items

Data objects

- Part Version
- CAD document with native_file and files
- Documents

Product structures and relations

- Part BOM
- BOM Instance
- Part CAD

ACI – 3DEXPERIENCE Aras Innovator Integration

Processed 3DEXPERIENCE Objects

Data objects

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

Product structures and relations

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

Configuration*

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

*in customer specific implementation projects

ACI – 3DEXPERIENCE Aras Innovator Integration

Supported File Formats

Supported file formats for native V6 exchange (with conversion)

- 3DEXPERIENCE to Aras Innovator
 - 3D: CATPart, CATProduct, 3DXML, STEP,
 - 2D: CATDrawing, DWG, 2D PDF
 - Any other non-CAD formats
- Aras Innovator to 3DEXPERIENCE
 - 3D: CATPart, CATProduct, STEP
 - 2D: CATDrawing
 - Any other 3D CAD format*

Supported PowerBy' CAD formats (without conversion)

- CATIA V5, NX

Any other non-CAD formats

- PDF, XLS, ...

*3rd party converter required

ACI – 3DEXPERIENCE Aras Innovator Integration Administration Client

The screenshot displays the ACI Administration Client interface. At the top, a navigation bar includes the ACI logo and menu items: About, Aras, 3DEXPERIENCE, LIST, Process, Monitor, and Tools. A dropdown menu is open under 'Tools', showing 'Operations Persistent', 'Configuration', and 'Job'. A 'Send to Aras' dialog box is open, showing a 'VPMReference: 000398 A' and options for 'Expand Depth' (All, None, Select depth) and 'Export options' (Force, Remove non-existing children in Aras). A pink arrow points from a 'send to Aras' button to the dialog box. Below the navigation bar, the main content area shows 'ACI · 3DEXPERIENCE Information' and a tree view of components under '000398 A.1 Engine', including '000387 A.1 FixedParts', '000385 A.1 Rack', '000386 A.1 CylinderBlock', and '000392 A.1 PistonAssm'. A table on the right shows the details of the selected component.

Name	Value
ID	15204.30390.14088.46377
Type	VPMReference
Name	000398
Revision	A.1
Vault	vplm

ACI – 3DEXPERIENCE Aras Innovator Integration

Supported Software Versions

Continuously developed product

- Support of the three latest 3DEXPERIENCE Platform releases
- Support of the two latest Aras Innovator releases
- Aras Innovator releases
 - 12 (all SPs), 14 and above (with availability)
 - Other Service Packs as required
- 3DEXPERIENCE Platform releases
 - R2020x, R2021x, R2022x, R2023x
 - 3DEXPERIENCE Cloud

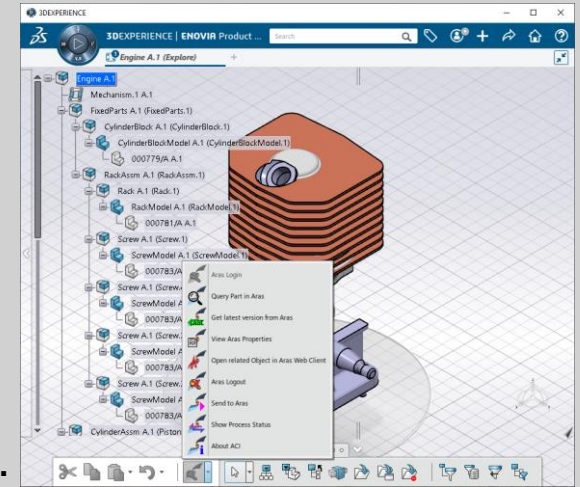
(¹) On demand

ACI – 3DEXPERIENCE Aras Innovator Integration Express Installation Package

10-days Express Installation Package



- ✓ Installation and configuration of an Aras Innovator environment.
- ✓ Import and validation of the Aras Innovator CAD data model.
- ✓ Basic configuration of T-Systems' ACI.
- ✓ Initial test of the environment.
- ✓ Training on the environment and methodology of Aras Innovator and ACI.



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

Customer References

3DEXPERIENCE Aras Innovator Integration

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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

BVLGARI

Jewelry Manufacturer

ACI –3DEXPERIENCE Aras Innovator Integration

Valenza in Italy, in use since 2016, one server license, 10 user licenses

3DEXPERIENCE 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

Release Plan

with history

ACI – 3DEXPERIENCE Aras Innovator Integration Roadmap 2024

V 3.10.0 – Supported PDM System Versions

Aras Innovator 12 (all SPs)

Aras Innovator 14+

3DEXPERIENCE R2019x⁽²⁾, R2020x⁽²⁾

3DEXPERIENCE R2021x

3DEXPERIENCE R2022x

3DEXPERIENCE R2023x

3DEXPERIENCE R2024x

3DEXPERIENCE Cloud

⁽¹⁾ With availability

⁽²⁾ On demand

V 3.10.0 – Selected Features

- Quality release for 3DEXPERIENCE Cloud support with EIF and REST
- Support custom attribute export via 3DEXPERIENCE REST
- Improvements in ACI admin client:
 - List processing
 - UI improvements

Q1 2024

Q2 2024

Q3 2024

Q4 2024

ACI – 3DEXPERIENCE Aras Innovator Integration Roadmap 2023

V 3.9.0 – Supported PDM System Versions

Aras Innovator 12 (all SPs)

Aras Innovator 14+

3DEXPERIENCE R2015x⁽²⁾, R2016x⁽²⁾, R2017x⁽²⁾, R2018x⁽²⁾,
R2019x⁽²⁾, R2020x⁽²⁾

3DEXPERIENCE R2021x

3DEXPERIENCE R2022x

3DEXPERIENCE R2023x

3DEXPERIENCE Cloud

⁽¹⁾ With availability

⁽²⁾ On demand

V 3.9.0 – Selected Features

- Structure Compare
- Configuration Transfer Teamcenter to 3DEXPERIENCE
- Add checkbox for split transfer to 3DX Rich Client plugins
- Create missing instances in XpgPostprocessing (OnPremise)
- Add effectivity export for step export (Cloud)
- Open in 3DEXPERIENCE web client
- Validation on export from PLM

Q1 2023

Q2 2023

Q3 2023

Q4 2023

Thank you!

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