

TCI Release 3.15
Release Notes

T Systems

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Brief details

Release Notes for TCI.

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1 Platform Support

1.1 System and Software Requirements

TCI Installation on the following minimum operation systems and software prerequisites:

- Windows Server 2016
- Java runtime environment 21 for Windows x64
- Apache Tomcat 9.0.x

For the file cache, at least 500GB of disk space are recommended.

Each 3DEXPERIENCE batch server must have a graphics card, please consult the Dassault Systèmes recommendations:

https://media.3ds.com/support/certified_hardware/Windows_11_64-bit.html

The following remote systems are supported:

- 3DEXPERIENCE R2023x
- 3DEXPERIENCE R2024x
- 3DEXPERIENCE R2025x
- 3DEXPERIENCE R2026x
- 3DEXPERIENCE Public Cloud
- Teamcenter 12 (4-tier)
- Teamcenter 13 (4-tier)
- Teamcenter 14 (4-tier)
- Teamcenter 2312 (4-tier)
- Teamcenter 2406 (4-tier)
- Teamcenter 2412 (4-tier)
- Teamcenter 2506 (4-tier)
- Teamcenter 2512 (4-tier)
- Teamcenter 2606 (4-tier)
- Teamcenter Active Workspace 6.2
- Teamcenter Active Workspace 6.3
- Teamcenter Active Workspace 2312
- Teamcenter Active Workspace 2406
- Teamcenter Active Workspace 2412
- Teamcenter Active Workspace 2506

- Teamcenter Active Workspace 2512
- Teamcenter Active Workspace 2606

The following DBMS are supported:

- Oracle Database 11g Release 2 and above
- MS SQL Server 2012 and above
- H2 DB 1.4

2 Release 3.15

2.1 Infrastructure

- Java 21

  Minimum Java version has been raised to 21 for compatibility with Teamcenter 2512 and 3DEXPERIENCE 2026x.

2.2 Features

- Teamcenter 2512

  Support for Teamcenter 2512 has been added for TCI integration server, Active Workspace Plugin and Rich Client plugin.

- 3DEXPERIENCE 2026x

  Support for 3DEXPERIENCE 2026x has been added to TCI integration server and Rich Client plugin.

- Multi-CAD support when transferring from Teamcenter to 3DEXPERIENCE

  Multi-CAD structures in Teamcenter which contain subassemblies with different CAD formats, e.g. CATIA V5 and NX, can be sent in the same transfer to 3DEXPERIENCE. The structure can be split into its separate CAD subassemblies and CAD-specific preprocessing can be applied to each subassembly.

  When importing into an On-Premise 3DEXPERIENCE environment, geometries may be imported with or without conversion depending on the CAD format.

- Support Derived Output generation on 3DEXPERIENCE import of POWER'BY data

  When importing into an On-Premise 3DEXPERIENCE environment, TCI can trigger generation of Derived Output formats on import.

  Prerequisite is 3DEXPERIENCE 2025x FD04 or higher in an On-Premise deployment.

- NX POWER'BY import into 3DEXPERIENCE Cloud

  Support for import of NX POWER'BY import into 3DEXPERIENCE Cloud for NX Parts, Assemblies and Drawings.

3 Release 3.14

3.1 Features

- Teamcenter 2506

  Support for Teamcenter 2506 has been added for TCI integration server, Active Workspace Plugin and Rich Client plugin.

- Teamcenter 2412

  Support for Teamcenter 2412 has been added for TCI integration server, Active Workspace Plugin and Rich Client plugin.

- 3DEXPERIENCE attribute mapping

  3DEXPERIENCE basic attributes like type, description or physicalid can be exported and mapped to Teamcenter attributes

  3DEXPERIENCE core attributes like Enterprise Item Number can exported from and imported to 3DEXPERIENCE.

- 3DEXPERIENCE Public Cloud EIF import

  Custom attributes can be imported with EIF exchange.

  Import of non-CAD documents with EIF to 3DEXPERIENCE is supported.

- TCI process scheduling

  TCI can schedule processes with different strategies:

  - FIFO: processes are executed ordered by creation date – first in, first out. Default behaviour.
  - RoundRobin: processes are assigned to buckets. TCI then alternates between the buckets to determine the next process to run.
    - One bucket for all processes submitted by a client (web client, Teamcenter client plugins).
    - One bucket for processes started by the scheduler.
    - One bucket for each complex process, e.g. a list process. All processes from that complex process are assigned to the same bucket.

- TCI web client

  Processes can be restarted from the Process view.

  Improvements to the process view: elimination of duplicate information, clear actions on processes (e.g. cancel, restart), display of detailed process information, report display.

3.2 Configuration changes

Following settings in XCIAdminSettings.xml are obsolete. Please remove them from your settings file if present.

```
<Administration>
  <JobQueuing enabled="true" timeout="1200000"/>
  <ExportPdm enableQueuing="true" />
  <Import3DX enableQueuing="true" />
</Administration>

<Enovia>
  <ImportStep>
    <EnableCATDrawingImport>true</EnableCATDrawingImport>
  </ImportStep>
</Enovia>
```

4 Release 3.13

4.1 Features

- 3DEXPERIENCE 2025x

  Support for 3DEXPERIENCE 2025x has been added to TCI integration server and Rich Client plugin.

- NX POWER'BY import to 3DEXPERIENCE

  NX data stored in Teamcenter can be transferred to 3DEXPERIENCE and stored natively for compatibility with NX POWER'BY integration inside 3DEXPERIENCE.

  Assemblies, Parts and Drawings are supported. Teamcenter links inside NX files are reconciled to file-based links.

  Supported for On-Premise 3DEXPERIENCE only.

- Export custom attributes from 3DEXPERIENCE Public Cloud with EIF

  Custom attributes defined on 3DEXPERIENCE Public Cloud can be exported with EIF based export.

5 Release 3.12

5.1 Infrastructure

- TCI settings

  TCI setting file XCISettings.xml has been restructured into two separate settings files:

  - XCISettings.xml containing mapping configuration like release state mapping or custom attribute mapping between Teamcenter and 3DEXPERIENCE
  - XCIAdminSettings.xml containing infrastructure settings like Teamcenter and 3DEXPERIENCE connection configuration

  Please contact us for assistance with migrating existing setting files.

5.2 Features

- Teamcenter 2406

  Support for Teamcenter 2406 has been added for TCI integration server, Active Workspace Plugin and Rich Client plugin.

- Export instance attributes with 3DEXPERIENCE web services

  On 3DEXPERIENCE export with web services, instance attributes can be exported and mapped to Teamcenter occurrence attributes or notes.

5.3 Removal

- Named structure import to 3DEXPERIENCE

  Outdated functionality that allowed for associating a structure with a name when importing to 3DEXPERIENCE, e.g. for importing a structure with a specific revision rule. TCI 3DEXPERIENCE Rich Client plugin was then able to expand the structure based on the name.

  Use structure filter import instead.

6 Release 3.11

6.1 Infrastructure

- Java 17

  Minimum Java version has been raised to 17.

- Tomcat 9.0.x

  Minimum Tomcat version has been raised to 9.0.x

- Database

  This release updates the TCI mapping database structure when first started. Please make sure to backup the database before upgrading TCI.

6.2 Features

- Teamcenter 2312

  Support for Teamcenter 2312 has been added for TCI integration server, Active Workspace Plugin and Rich Client plugin.

- Teamcenter Product Configurator

  Import and export 3DEXPERIENCE variant management options and product configurations to Teamcenter Product Configurator. 3DEXPERIENCE model is mapped to Teamcenter ConfiguratorContext and 3DEXPERIENCE variants and their values are mapped to Families and their Features in Teamcenter.

- Assign Teamcenter Projects

  On Teamcenter import, assign Projects to imported ItemRevisions based on 3DEXPERIENCE collaborative spaces.

- Import occurrence attributes / notes to Teamcenter

  Map 3DEXPERIENCE instance attributes to Teamcenter occurrence attributes or notes on Teamcenter import.

- Map attributes with unit conversions

  In 3DEXPERIENCE custom attribute can be associated with a unit, but it is stored in a different unit. For example, an attribute can be defined with unit “cm” but it is stored in “m”. Export provides the value in stored database unit and import must provide it in this unit as well.

  To support unit conversions between Teamcenter and 3DEXPERIENCE, define conversions on Teamcenter import or 3DEXPERIENCE import for custom attribute mapping. For example, export “m” from 3DEXPERIENCE, but import as “cm” in Teamcenter.

- Export 3D XML from 3DEXPERIENCE

Support all options of “Export 3DXML” 3DEXPERIENCE batch.

- Split large structure on 3DEXPERIENCE to Teamcenter transfer

  Transfer large structures to Teamcenter by dividing on a specified structure level. Substructures starting on that level will be transferred first in parallel. After transfer of the substructures, the top structure will be transferred and assemble all structures in Teamcenter.

7 Release 3.10

- Support for 3DEXPERIENCE R2024x
- TCI plugin for Teamcenter Active Workspace:
  - Transfer objects to / from 3DEXPERIENCE
  - View 3DEXPERIENCE properties of mapped Teamcenter objects
  - Synchronize Teamcenter properties of mapped objects to 3DEXPERIENCE
  - Open mapped 3DEXPERIENCE objects in 3DDashboard
- Support custom attribute export via 3DEXPERIENCE web services
- TCI webclient:
  - UI improvements on Teamcenter and 3DEXPERIENCE object information pages
  - List processing: upload .csv file with object information, validate objects against Teamcenter / 3DEXPERIENCE before transfer, removed interactive definition of list
  - disable functionality if not required for use case, e.g. unidirectional transfer

8 Release 3.9.1

3DEXPERIENCE Cloud:

- Compatibility update for 3DEXPERIENCE Cloud fixpack FD03.
- Support for V4 model and cgr.

9 Release 3.9

- Validation on export from PDM to check for inconsistent data. Collect all validation errors and fail after the export.
    - more than one main file
    - no representation for leaf product
    - duplicate file name
    - duplicate representation name
    - duplicate instance names
    - attribute length to long
    - failed to download file
    - no file for document
    - document is referenced by more than one part
    - more than one revision of same part
- 3DEXPERIENCE Cloud:
    - Handle feedback from STEP import.
- Improved POWER'BY support for CATIA V5 data
    - added mastership transfer to 3DEXPERIENCE (supported by 3DEXPERIENCE R2022x FD07 onwards)
- Improved Report by adding more information and making available from Webclient.
- Increase 3DEXPERIENCE file export robustness by adding attempting export AsResult if export AsSpecification has failed.
- Create missing instances after XPDM import with CATProductMasterMode, for example in mixed mode with V5 and XCAD data.
- Default values for custom properties can be configured in settings.
- Improved dataset handling: better support for uses cases without native V5 date, handle multiple files for one format (e.g. DXF with multiple sheets).
- Webclient:
    - Added search filters to "Process" view.
    - Cancel running jobs.
    - Display settings as tree for easy browse and filter of settings.
    - Display error details on settings reload.
- 3DEXPERIENCE client extension:
    - Display XCI server URL and check connectivity from "About" dialog.

- Support default port (:80 for HTTP / :443 for HTTPS) when connecting to 3DEXPERIENCE from TSI3DXBatch.

10 Release 3.8.2

- Support for 3DEXPERIENCE R2023x.
- Configuration transfer from Teamcenter to 3DEXPERIENCE.
- Compare transferred structures between Teamcenter and 3DEXPERIENCE.
- Transfer large structures to 3DEXPERIENCE by dividing on a specified structure level and transferring first the substructures before sending the upper structure.
- “Open in 3DEXPERIENCE Dashboard” command in Teamcenter Rich Client.

11 Release 3.8.1

- Support for MS SQL Server DBMS
- When sending structures from Teamcenter to 3DEXPERIENCE with limited expand depth, substructures already transferred previously will not be truncated.
- Consistent Process Info for scheduled and manual processes in the admin client
- Update structures transferred with changed revision rule
- Improved Unicode support in admin client

12 Release 3.8

- Support for 3DEXPERIENCE 2022x.
- Support for Teamcenter 14.
- Support for Bookmark as replacement for Engineering Folder.
- Open in 3DEXPERIENCE command in Teamcenter Rich Client.
- Improved logging:
    - Job based logging
    - CS logging
    - Log download in TCI Web Client to simplify log access in a distributed environment.
- Support for 3DEXPERIENCE Cloud:
    - Stepx import
    - Stepx export
    - Rest API as MQL replacement
- Export of CATProducts without V5 prerequisite using 3DEXPERIENCE DWC Batch.
- Improved "3DEXPERIENCE login" dialog in Teamcenter Rich Client.
- Configuration transfer from 3DEXPERIENCE to Teamcenter.

13 Release 3.7

- enhanced XPDMExport with FileCache and derived formats.
- added support for Power'By.
- added Update properties in 3DEXPERIENCE functionality.
- added Revise in 3DEXPERIENCE functionality.
- added File Cache access via XCI Web.
- added on the fly pdm-cust-config.xml file generation.
- enhanced aux/nonbom geometry file handling.

14 Release 3.6

- Added Support for 3DEXPERIENCE 2021x.
- Added Support for Teamcenter 13.
- Added Scheduler for delta handling:
    - Teamcenter->3DEXPERIENCE
    - 3DEXPERIENCE->Teamcenter.
- Added Job finished Notifications using Teamcenter Mail.
- Added Active Workspace support.

15 Release 3.5

- Added Support for 3DEXPERIENCE 2020x
- 3DEXPERIENCE client: Open in Teamcenter functionality.
- Skip functionality for successfully transferred structures

16 Release 3.4

- Added Support for 3DEXPERIENCE 2019x
- Added Support for Teamcenter 12
- Support of additional file formats for File Export, eg. 3DXML, Drawing as pdf, …
- Create a VPM Filter in V6 for a configured structure in Teamcenter (structure filter)
- Custom attribute mapping for File Export (not using XPDM)
- CLOC without Gateway infrastructure (Transfer location of control)
- Type dependant mapping of Lifecycle States
- Handle CMIRII AuxParts as 3DParts for Glassbox Mode
- Option to load Teamcenter policy from local file
- Support of direct access to Teamcenter FSC (no tccs required on the client)
- Enhanced XCAD support

17 Release 3.3

- TCI About functionality added in 3DEXPERIENCE UI.
- FileConversion can now be used with Conversion Server (CS).
- Job management in XPDM-Gateway replaced with Jobs Management in TCI.
- Optimized Redirect in WEB interface for TCI.

18 Release 3.2

- 3DEXPERIENCE 2018x support has been added.
- Support for direct XPDM import and direct XPDM export has been added.
- WEB interface for TCI has been added.
- File cache (FC) for 3DEXPERIENCE File export has been added.
- Conversion Server (CS) for external batch calls has been added.
- New Features from XPDM are now supported:
    - Import without conversion (native V5 import mode)
    - Glassbox import to 3DEXPERIENCE.
    - updateChildMode synchronization mode at object level.
    - ChildOrder support based on the PDM OrderNumber.
    - Level definition for 3DEXPERIENCE export.
- Monitoring View (WEB interface for TCI) for resource usage has been added.
- Part Number mapping has been added.
- List processing for transfer PDM→3DX and 3DX→PDM has been added.
- Folder transfer PDM→3DX and 3DX→PDM has been added.

19 Release 3.1.5

- 3DEXPERIENCE 2017x support has been added.
- Provide information about data exchange status.
- New Teamcenter export option “Transfer structure filter only”.
- New 3DEXPERIENCE export command “Send to Teamcenter” with XPDM or direct export option.
- Enhance UI functionality 3DEXPERIENCE.
    - Enhance Send to 3DEXPERIENCE Dialog in 3DEXPERIENCE UI.
- Enhance UI functionality in Teamcenter and 3DEXPERIENCE.
    - New command “Login to 3DEXPERIENCE” in Teamcenter UI.
    - New command “Query for objects in 3DEXPERIENCE” in Teamcenter UI.
    - New send from 3DEXPERIENCE command in Query dialog.
    - New command “Logout from 3DEXPERIENCE” in Teamcenter UI.

20 Release 3.1

- Display 3DEXPERIENCE and mapping information in Teamcenter rich client.
- Transfer of named structures only from Teamcenter to 3DEXPERIENCE.
- Revision Mapping with support for Alphanumeric and Numeric Revisions.
- Maturity mapping for 3DEXPERIENCE import for objects with or without state.
- Teamcenter import cleanup functionality for new Item Revisions.
- Configurable owner and group for new objects in Teamcenter.

21 Release 3.0

- 3DEXPERIENCE 2016x support has been added.
- 3DEXPERIENCE 2015x support has been added.
- Teamcenter 11.2 support has been added.
- Cleanup temporary data.
- Session pooling.
- Improved Teamcenter import.
- Support for XPDM Fastener objects.
- Various performance improvements.
- Module reorganisation.
- Improved TimeModified support for 3DEXPERIENCE Import.

22 Release 2.2

- Improved customization functionality.
- Added data converter support.
- Added pre- and postprocessor support.
- Added linked drawing resolve and handling.

23 Release 2.1

- 3DEXPERIENCE 2014x support has been added.
- 3DEXPERIENCE 2014 support has been added.
- Teamcenter 10.1 support has been added.
- Added persistent mapping database.
  - DerbyDB support.
  - Oracle DB support.
- Enhanced monitoring and reporting.
- Enhanced incorporation interfaces.

24 Release 2.0

- Teamcenter 2007.1 MP3 support has been added.
- Added Named Structure functionality.
- Added Teamcenter Revision Rule selection.
- Added Teamcenter Variant Rule selection.
- Various performance improvements.

25 Release 1.2

- ENOVIA V6R2013 is no longer supported.
- ENOVIA V6R2013X is only supported on level FP1316 or later.
- Added CATIA V6 Client Module.
- Added CATIA V6 Query for Teamcenter Objects.
- Added CATIA V6 Assign Teamcenter Partnumber.
- Consolidated Teamcenter dialogs.
- Added Web Application container support.
- Various performance improvements.

26 Release 1.1

- Consolidated configuration file format.
- Added bidirectional configurable custom attribute mapping.
- Added configurable export of CATProducts and related CATDrawings from Teamcenter.
- Added unidirectional export from Teamcenter with LocationOfControl change from Teamcenter to V6.
- Added rollback on errors functionality to Teamcenter imports.

27 Release 1.0.2

- ENOVIA V6R2013x support has been added.
- Configurable TcIC compatibility.

28 Release 1.0.1

- Teamcenter 9.1 support has been added.

29 Release 1.0

- Support for ENOVIA V6R2013 (with XPDM infrastructure) and Teamcenter 8.3.
- Export/Update of a product structure with CATParts as read only to V6 from Teamcenter “Structure Manager” application
- Export/Update of a selected Item Revision (complete product structure with CATParts) as read only to V6 from Teamcenter “My Teamcenter” application
- Export/Update of a CATDrawing with referenced CATPart to V6 as read only (Drawing links are kept)
- Export of product structures with JT files to V6 (provided, that the V6 converter can consume JT)
- Import/Update of a product structure as read only to Teamcenter
- Import/Update a product structure as read only to Teamcenter
- Import of product structures with JT files in Teamcenter (provided, that the V6 converter can produce JT)
- Import/Update a CATDrawing as read only in Teamcenter