ACI Release 3.15
Release Notes

T Systems

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Brief details

Release Notes for ACI.

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1 Platform Support

1.1 System and Software Requirements

ACI 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
- Aras Innovator 12 and above
- Aras Innovator Community Edition
- Aras Innovator Cloud

The following DBMS are supported:

- Oracle Database 11g Release 2 and above
- MS SQL Server 11.2 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 3DEXPERIENCE 2026x.

2.2 Features

- 3DEXPERIENCE 2026x

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

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

  Multi-CAD structures in Aras 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, ACI 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

- 3DEXPERIENCE attribute mapping

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

- ACI process scheduling

  ACI 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. ACI then alternates between the buckets to determine the next process to run.
    - One bucket for all processes submitted by a client (web client, Aras 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.

- ACI 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.

3.1 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 ACI integration server and Rich Client plugin.

- 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

- ACI settings

  ACI 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 Aras and 3DEXPERIENCE
  - XCIAdminSettings.xml containing infrastructure settings like Aras and 3DEXPERIENCE connection configuration

  Please contact us for assistance with migrating existing setting files.

5.2 Removal

- Named structure import to 3DEXPERIENCE

  Outdated functionality that allowed for associating a structure with a name when importing to 3DEXPERIENCE. ACI 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 ACI mapping database structure when first started. Please make sure to backup the database before upgrading ACI.

6.2 Features

- 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 Aras Innovator and 3DEXPERIENCE, define conversions on Aras Innovator import or 3DEXPERIENCE import for custom attribute mapping. For example, export “m” from 3DEXPERIENCE, but import as “cm” in Aras Innovator.

- Export 3DXML from 3DEXPERIENCE

  Support all options of “Export 3D XML” 3DEXPERIENCE batch.

- Split large structure on 3DEXPERIENCE to Aras Innovator transfer.

  Transfer large structures to Aras Innovator 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 Aras Innovator.

7 Release 3.10

- Support for 3DEXPERIENCE R2024x
- Support for 3DEXPERIENCE Public Cloud
- Support custom attribute export via 3DEXPERIENCE web services
- ACI webclient:
    - UI improvements on Aras and 3DEXPERIENCE object information pages
    - List processing: upload .csv file with object information, validate objects against Aras / 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
- 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).
- XCI Web Client:
    - 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.
- Compare transferred structures between Aras 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 Aras UI.

11 Release 3.8.1

- Support for MS SQL Server DBMS
- When sending structures from ARAS Innovator to 3DEXPERIENCE with limited expand depth, substructures already transferred previously will not be truncated.
- Performance optimizations for Innovator access
- 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 Aras Innovator 14 and above.
- Support for Bookmark as replacement for Engineering Folder.
- Open in 3DEXPERIENCE command in Aras UI.
- Improved logging.
    - Job based logging
    - CS logging
    - Log download in ACI 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, eg for Hoops Converter.
- Improved "3DEXPERIENCE login" dialog in ACI Thin Client.

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

- Support for 3DEXPERIENCE 2021x.
- Added Scheduler for delta handling:
  - Aras->3DEXPERIENCE
  - 3DEXPERIENCE->Aras.
- Added Job finished Notifications using Aras Notifications.

15 Release 3.5

- Support for 3DEXPERIENCE 2020x.
- 3DEXPERIENCE client: Open in Aras functionality.
- Skip functionality for successfully transferred structures.
- Improved performance for Aras access.
- Aras Client extension for Aras 11 and Aras 12.

16 Release 3.4

- First Version for Aras Innovator 11 and Aras Innovator 12.