

CoCreate® CAD Interfaces

Bi-directional CAD data exchange between CoCreate Modeling/3D Access and other CAD systems

With the CoCreate CAD interfaces, you can conveniently load and save 3D design data from within CoCreate Modeling and CoCreate 3D Access.

The CoCreate CAD interfaces improve the quality of translated designs because they use industry-leading, multi-CAD data exchange technology from Elysium, resulting in higher data fidelity than with neutral 3D CAD formats such as STEP and IGES.

The interoperability of explicit modeling makes reusing 3D design data from other CAD systems seamless. Plus, it makes working across an extended supply chain both realistic and easy. CoCreate CAD interfaces offer bi-directional data exchange between CoCreate Modeling or CoCreate 3D Access and other 3D CAD systems. They support the complete translation requirements of companies that work with multi-CAD design teams – internally and externally. And, they improve the quality of the data in ways not possible using neutral 3D CAD data formats.

Direct integrations to other CAD systems are available in the following modules:

- CoCreate® Interface for Pro/ENGINEER®
- CoCreate® Interface for CATIA® V4
- CoCreate® Interface for NX®
- CoCreate® Interface for I-deas®
- CoCreate® Interface for Solid Edge®
- CoCreate® Interface for SolidWorks®
- CoCreate® Interface for Inventor™



CoCreate CAD Interfaces offer bi-directional data exchange from within CoCreate Modeling or CoCreate 3D Access

Key Benefits

- **High-quality models:** Improve the quality of exported native models from other CAD systems using industry-leading CAD conversion technology. You'll see great results in all your collaboration processes involving other CAD systems
- **Lower CAD license costs:** The CoCreate CAD interfaces make high-quality 3D design data accessible to everyone on the project team without requiring other CAD licenses
- **Less risk when exploring changes:** Share high-quality 3D design data with the project team, with complete freedom to explore changes in the model—without risk of changing the original design file
- **Multi-CAD collaboration:** Work effectively in a multi-CAD development environment, where you can share, view, and inspect high-quality designs, even those created in other 3D CAD systems

Features and Specifications

CAD Data Exchange

- Use designs for single parts or complete products from other CAD systems in CoCreate Modeling or CoCreate 3D Access and vice versa
- Make the most of collaborative product development with CoCreate Modeling and existing CAD systems
- Work with CAD data from other systems just like it was created in CoCreate Modeling. Once loaded into, data imported using the CoCreate CAD interfaces behaves like native CoCreate Modeling data and can be modified without restrictions

Translation Quality

- Model import quality superior to that of STEP or IGES standard interfaces
- CAD model import and export solutions remain high quality as the technology respects the individual properties and differences between source and destination systems
- Interfaces combine in-depth knowledge of CAD systems and translation of CAD models with CoCreate's unique kernel technologies and explicit modeling for optimal results

CoCreate Interface for Pro/ENGINEER

Import and Export

- Install expert plug-ins for Pro/ENGINEER to easily save and prepare 3D design data for import into CoCreate Modeling or 3D Access. The plug-in is part of the CoCreate Interface for Pro/ENGINEER product and uses the Pro/ENGINEER system capabilities to write or read models in Pro/ENGINEER with supreme quality
- Import .anf files generated by the plug-in for Pro/ENGINEER
- Export .anf-proe files that can be read by the plug-in for Pro/ENGINEER

Supported Entities

- Parts and assemblies
- Quilts (open shells)
- Surfaces (trimmed and geometry)
- Curves

Supported Versions

- Pro/ENGINEER Wildfire® 2.0
- Pro/ENGINEER Wildfire® 3.0

CoCreate Interface for CATIA V4

Import and Export

- Import CATIA V4 native .model and export format (.exp) files into CoCreate Modeling
- Export CATIA V4 native .model files to CATIA V4

Supported Entities

- Detail/ditto structure
- Exact solid, surface, wire frame
- Pipes (converted to solid models)
- Non-geometric entities (color, 3D text)



The CoCreate CAD interface support collaborative product development with CoCreate Modeling and existing CAD systems

Supported Versions

- CATIA V4 4.2.x

CoCreate Interface for NX

Import and Export

- Import Parasolid® ASCII text format (.xmt_txt, x_t) files from NX into CoCreate Modeling
- Export Parasolid ASCII text format (.xmt_txt) files to NX
- Install expert plug-ins for NX to easily save and prepare 3D design data for import into CoCreate Modeling or CoCreate 3D Access. Plug-in is part of the CoCreate Interface for NX product and uses the NX system capabilities to write or read models in NX with supreme quality.
- Import .anf files generated by the plug-in for NX
- Export .anf-ug files that can be read by the plug-in for NX

Supported Entities

- Parts and assemblies (assemblies via .anf)
- Surfaces (trimmed and geometry)
- Curves
- GD&T annotations

Supported Versions

- NX 4 and NX 5

CoCreate Interface for I-deas

Import and Export

- Install expert plug-ins for I-deas to easily save and prepare 3D design data for import into CoCreate Modeling or 3D Access. The plug-in is part of the CoCreate Interface for I-deas product and uses the I-deas system capabilities to write or read models in I-deas with superior quality

- Import .anf files generated by the plug-in for I-deas
- Export .anf-ideas files that can be read by the plug-in for I-deas

Supported Entities

- Parts and assemblies
- Surfaces (trimmed and geometry)
- Curves
- 3D dimensions

Supported Versions

- I-deas 12 NX Series
- I-deas 13 NX Series

CoCreate Interface for Solid Edge

Import and Export

- Import Parasolid® ASCII text format (.x_t) files and Parasolid neutral binary format (.x_b) files from Solid Edge into CoCreate Modeling
- Export Parasolid ASCII text format (.x_t) files to Solid Edge

Supported Entities

- Part structures
- Bodies
- Surfaces

Supported Versions

- All Solid Edge versions based on Parasolid 7.0 through 19

CoCreate Interface for SolidWorks

Import and Export

- Import Parasolid® ASCII text format (.x_t) files and Parasolid neutral binary format (.x_b) files from SolidWorks into CoCreate Modeling
- Export Parasolid ASCII text format (.x_t) files to SolidWorks

Supported Entities

- Part structures
- Bodies
- Surfaces

Supported Versions

- All SolidWorks versions up to and including 2007 based on Parasolid 7.0 through 19

CoCreate Interface for Inventor

Import and Export

- Install expert plug-ins for Inventor to easily save and prepare 3D design data for import into CoCreate Modeling or 3D Access. The plug-in is part of the CoCreate Interface for Inventor product and uses the Inventor system capabilities to write or read models in Inventor with supreme quality
- Import .anf files generated by the plug-in for the Inventor system

- Export .anf-inv files that can be read by the plug-in for the Inventor system

Supported Entities

- Part structures
- Bodies
- Surfaces

Supported Versions

- Inventor Series 8
- Inventor Series 9

Prerequisites

- CoCreate Modeling or
- CoCreate 3D Access

System Requirements

Run on the same platforms as CoCreate Modeling:

- Windows® XP™ Professional 32-bit and 64-bit Editions
- Windows Vista™ 32-bit and 64-bit Editions of Ultimate, Enterprise, and Business

Plug-ins are supported on the following platforms:

Pro/ENGINEER Wildfire 2.0

- Windows® 2000™
- Windows® XP™ Professional 32-bit Edition

Pro/ENGINEER Wildfire 3.0

- Windows® 2000™
- Windows® XP™ Professional 32-bit and 64-bit Editions

NX 4 and NX 5

- Windows® XP™ Professional 32-bit and 64-bit Editions

I-deas 12 NX Series

- Windows® 2000™
- Windows® XP™ Professional 32-bit Edition

I-deas 13 NX Series

- Windows® XP™ Professional 32-bit Edition

Inventor Series 8 and Series 9

- Windows® 2000™
- Windows® XP™ Professional 32-bit

For more information, visit www.ptc.com/products/cocreate