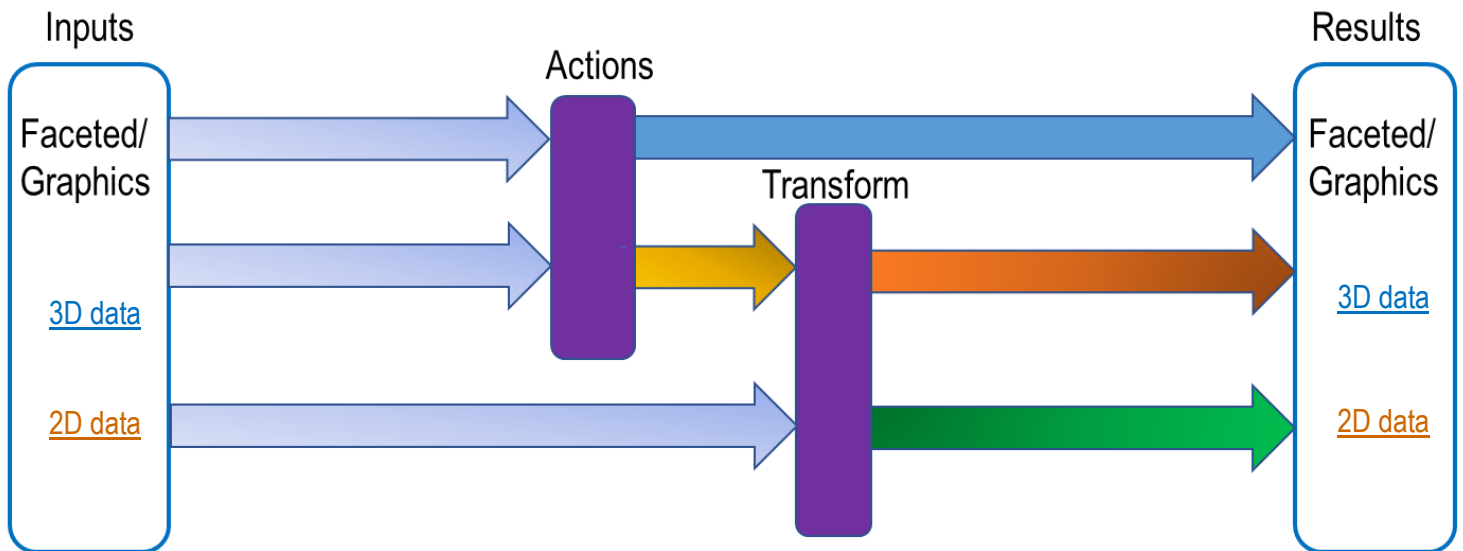CADM Inc.

Open Ensemble Transform

Transforms and Automates Engineering Data

Open Ensemble Transform is a powerful web-based service that transforms CAD data files to many various formats, and can perform other useful actions.

Inputs

Actions

Transform

Results

Faceted/ Graphics

3D data

2D data

Faceted/ Graphics

3D data

2D data

Open Ensemble Transform runs on a web server, with no need for a local application or download. All communication with the web server is securely transmitted using modern encryption methods.

Benefits of the service.

Δ   Translate files from 2D drawings, 3D models, and faceted data into many formats.

Δ   Saves engineering time with no labor-intensive manual translation (load model, save as…). Can bulk translate many files.

Δ   No software to install or maintain. No IT knowledge or resources required.

Δ   Ideal for distributed teams with multiple CAD systems to readily share models and drawings.

Δ   Multiple platforms supported - laptop, tablet, smart phone... Use the service anywhere– you can even do a quick translation from your cellphone.
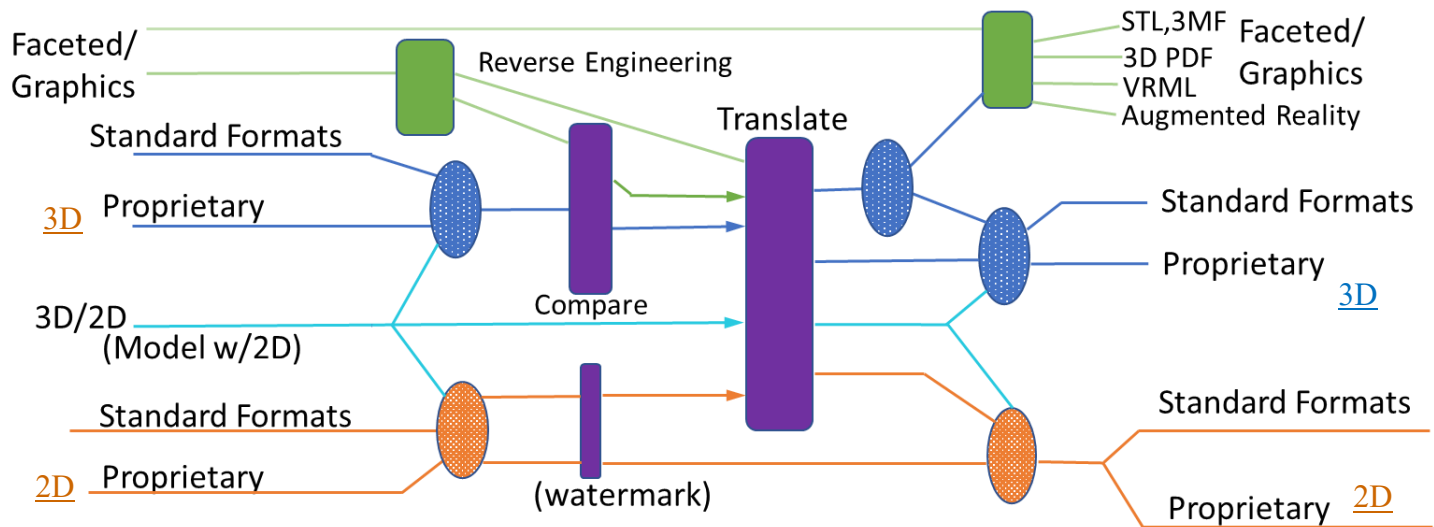
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Please contact us to learn more! We welcome discussions about how to meet your needs. We offer a free trial to export three files of your choice. Access Open Ensemble Transform to see how it works.

Open Ensemble Transform Overview

Faceted/ Graphics
Standard Formats
3D Proprietary
3D/2D (Model w/2D)
Standard Formats
2D Proprietary

Reverse Engineering
Compare
Translate
(watermark)

STL,3MF
3D PDF
VRML
Augmented Reality
Faceted/ Graphics
Standard Formats
Proprietary 3D
Standard Formats
Proprietary 2D

How it works: Initiate the service in a web browser and fill out a job request form. The results arrive via email link to specified recipients.

Convert one or more input files to one or more export formats.

- Δ   MIMO (Multi-In, Multi-out) solution
- Δ   Process one file to thousands of files with a single request
- Δ   Supports industry standard and many proprietary formats

More benefits:

- Δ   High return on investment. Typically file transformations are quick to set up and run in a couple minutes, saving significant time and dollars.
- Δ   Perform reoccurring transforms in seconds with Job Presets,.
- Δ   On-demand translation and sharing. Result is delivered directly to the recipient. No upload to a file share needed.

Examples of action:

- Δ   Model compare
    - ~ Geometrically compare two models from any supported CAD system and show differences. (Rev Q3 '21)
    - ~ Compare a faceted or scanned data file with highlighted deviations from specified design requirement.
    - ~ Show results in format of choice.
- Δ   Geometry reconstruction
    - ~ Rebuild the underlying CAD geometry derived from user-supplied faceted data.
    - ~ Reverse engineering.
    - ~ Data reduction of scanned data (not data compression). Reduces file sizes by 10-100x.
- Δ   Add watermark to exported 2d file format.

Flexible costing models

- Δ   Pay by server time ($250/hr) – most jobs run in 2 or 3 minutes
- Δ   Pay by single job ($3.50 min charge, capped at $50)
- Δ   Or pay by number of export files created
- Δ   Solution can also be installed locally for company user with subscription-based licensing

CADM Services

Expanded Training In addition to PTC offerings, we developed and deliver several courses including Advanced Surfacing, Integration Kit training, and customized courses. We offer video-based, self-paced training materials. We also provide on-site instructors with product expertise and practical experience in the field.

Consulting We find the CoCreate software to be very flexible, highly configurable and customizable. Through years of providing solutions to many customers, we have a core foundation of knowledge, skills and reusable code to leverage. We go to a customer's site and help evaluate where improvements can be made to their processes and tools to make them more efficient.

> **Customization and Configuration Management** We build custom extensions to all the products: Modeling, Drafting, and Model Manager. We target areas of the product for maximum customization benefit for the customer. Configuration Management ranges from creating rules governing how revisions are managed, to triggering complex actions when key events take place in the product life cycle.

> **Enhancements:** We develop customer-driven enhancements to the products' functionality. Examples include:
> ~ PCB Module enhancements which improved performance by over 20x
> ~ Constructing and populating enhanced pdf forms automatically upon project-stage completion
> ~ Replacement of the Machining Module functionality with an intuitive and intelligent hole wizard interface

Application Development We develop complete new applications built upon platforms. Modeling examples include:
> Ray Trace module calculates the path a beam of light may follow, useful for lasers or light tubes applications. AutoRouting tool for complex cable routing in complex assemblies while maintaining proper spaces and distances from 3D obstructions. Improve Model Manager load performance significantly with model-optimizing tool.

Support We provide a full range of support services backed by a knowledge base system.
> **Support desk:** staffed by Certified Support Engineers all with many years of experience with the software, and with the ability to diagnose issues via remote desktop.

> **Bug fixing**: In many cases, we can fix existing defects without requiring a code modification from PTC. System administrators can thus install the add-ons delivered via DLLs We make these fixes available to PTC to integrate into the code when possible.

Data Migration We specialize in migrating data in and out of Model Manager, Modeling, and Drafting. For example, we configure the migration to create rules to manage revisions.

CADM Inc offers consulting, training, support, and customized applications for the Creo Elements/Direct product line. With over 20 years product experience, this is our sole business focus, enabling systems to run smoothly.