

# Creo™ Elements/Direct™ Task Agent

AUTOMATE OPERATIONS ON DRAWINGS AND MODELS IN CREO ELEMENTS/DIRECT MODEL MANAGER

Formerly CoCreate®

Use Creo Elements/Direct Task Agent, a Creo Elements/Direct Model Manager add-on module, to automate repetitive or time-consuming operations on 2D drawings and 3D models stored in Creo Elements/Direct Model Manager.

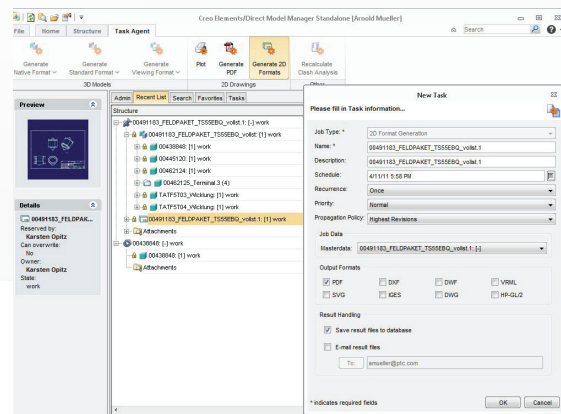
You can print or plot 2D drawings, convert drawings or models to viewing and geometry formats, or run clash analyses either on subassemblies or on complete product designs, in the background on assigned hardware—overnight or while you work.

Throughout the product development process, engineers often spend much of their time on non-engineering tasks, for example, plotting an entire stack of 2D product drawings for the manufacturing department or a subcontractor. Also, if you exchange paperless drawings, you typically spend time converting data into various 2D formats. Engineers may also need to exchange CAD model data with other CAD systems, or provide CAD-neutral visualization formats for communication and archiving. Likewise, in team design, you must spend time running regular interference checks on isolated subassemblies or complete product designs to ensure problems are found early.

Now you can automate these repetitive activities with Creo Elements/Direct Task Agent, and free up your valuable engineering time for more important design work.

## Key benefits

- Saves time when preparing hard-copy documentation, and automates repetitive operations.
- Lets you multi-task by converting 2D and 3D design data on another system while you continue your work.
- Ensures the quality of your designs by continuously identifying interference and conflicts. You can set up clash analysis definitions for parts, or complete assemblies, and rely on Creo Elements/Direct Task Agent to monitor your design.
- Maximizes system resource utilization. Shared high-end systems on the server side allow for heavy-duty processing of even very large assemblies.



Creo Elements/Direct Task Agent automates print/plot format conversion and clash analysis as well as custom tasks.

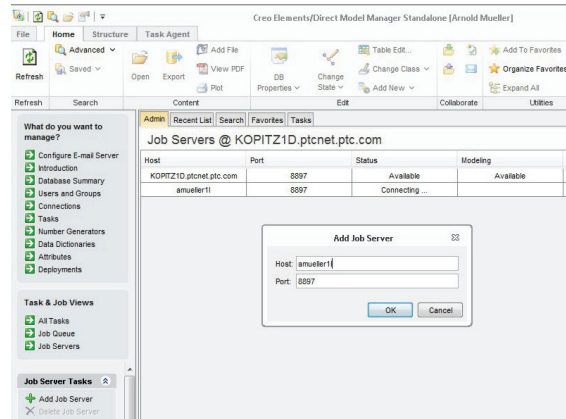
## Features and specifications

### Print/plot services

- Streamline the process of printing one or more drawings
- Simply select your drawings and use the task dialog to flexibly associate master data, appropriate printing options and destination printers
- Launch print/plot tasks on demand, or schedule them for later
- You can even set up a regular schedule for print/plot

### 2D and 3D output format conversion

- Define format conversion tasks for immediate or scheduled, one-time or recurring execution
- Define trigger states for automatic generation and execution of immediate or scheduled format conversion
- Automatically convert 2D drawings to PDF, DXF, DWF, DWG, VRML, SVG, IGES, or HP-GL/2 formats
- Automatically convert 3D models to visualization formats such as Creo View MCAD, eDrawings®, STL, or VRML, or (with add-on Creo Elements/Direct Interface products) to eDrawings® Professional, XVL®, 3D PDF, or U3D
- Automatically convert 3D models to the neutral geometry formats STEP, IGES 3D, and SAT, or (with add-on Creo Elements/Direct Interface products) to CAD formats for Creo, CATIA® V4, I-deas®, Inventor™, NX®, or Parasolid®
- Store conversion results as related files to the drawings and models in Creo Elements/Direct Model Manager, or deliver by email



Administrative capabilities in Creo Elements/Direct Task Agent help you add Job Servers for flexible load balancing.

### Automated clash analysis

- Create clash analysis definitions in Creo Elements/Direct Modeling and store them in Creo Elements/Direct Model Manager with the model owner
- Define immediate or scheduled clash analyses with Creo Elements/Direct Modeling services
- Automatically update clash results in Creo Elements/Direct Model Manager, then review analyses updates when you load models back into Creo Elements/Direct Modeling
- Ensure your data is up to date: system will mark analysis objects as outdated when anyone saves relevant model changes to Creo Elements/Direct Model Manager

### Generic jobs/tasks

- Freely define generalized job types that can export job input data and parameters, trigger job execution – running any script or application on the correspondingly configured Job Server – and handle result data

### Administrative capabilities

- Specify printers for plot jobs in easy-to-edit XML file
- Define available printers in custom XML file
- Monitor all tasks, job queue, job spooler, and job server status
- Add or remove resource hosts with Creo Elements/Direct Drafting and Creo Elements/Direct Modeling services

### Customization capabilities

- Configure predefined XML tags
- Modify standard task parameters
- Adapt job scripts or existing tasks
- Flexibly define and program custom tasks/jobs on different levels

### Prerequisites

- Creo Elements/Direct Model Manager
- Creo Elements/Direct Drafting for print/plot and 2D format conversion
- Creo Elements/Direct Modeling for clash analysis and 3D format conversion

### Platform Requirements

Client components run on the same platforms as Creo Elements/Direct Model Manager:

- Windows® 7 32-bit and 64-bit Editions of Ultimate, Enterprise, and Professional
- Windows Vista® 32-bit and 64-bit Editions of Ultimate, Enterprise, and Business

For the most up-to-date platform support information, visit: [PTC.com/partners/hardware/current/support.htm](http://PTC.com/partners/hardware/current/support.htm)

For more information, visit: [PTC.com/products/creo-elements-direct/](http://PTC.com/products/creo-elements-direct/)

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6617-Creo Elements/Direct Task Agent-DS-EN-0511