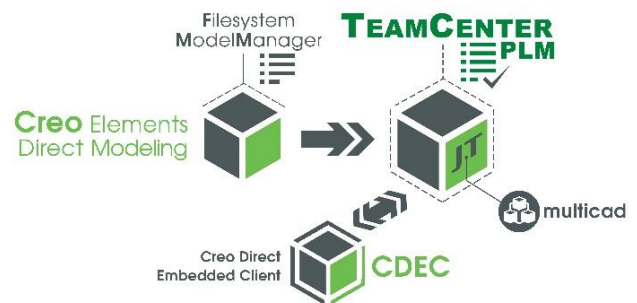# **creo** Direct Integration
To TeamCenter

Specifications of a preconfigured Creo Direct Integration to **Teamcenter**

The PLM-S Creo Elements Direct (CED) Integration offers the most efficient Data Migration and Integration apps such as **CDAT** (Creo Direct Add to Teamcenter Interactive), a bulk upload tool to import unmanaged data and CDEC (Creo Direct Embedded Client), offering an end-to-end solution to level-up from filesystem or PDM (ModelManager) to PLM.

The integration ensures CED data is managed in TeamCenter as your company's **single source of truth**, eliminating duplicates, along with document -, BOM -, and process management, which enables designers to concentrate on design tasks rather than administration.

Key Capabilities

- ☐ Manages All Creo Direct data types in Teamcenter using **CDEC** – Creo Direct Embedded Client.

- ☐ Brings the power of Teamcenter to the Creo Direct user directly through **Creo Direct App plug-in** delivering an efficient user interface.

- ☐ Manages the link between drawings and models, simulation data and view files, **creating datasets enforcing standardization**

- ☐ Supports **automatic mapping** of title block and other properties between Teamcenter and drawings

- ☐ Powerful **version and revision management** of all assemblies, parts, and drawings
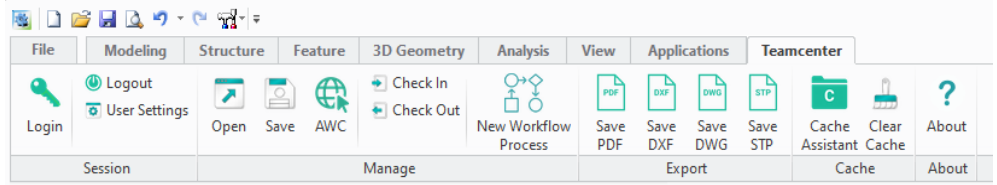
- ☐ Enriches CREO Data with properties, enabling **extended CAD-Driven BOM Management**

- ☐ **Automated** generation of neutral files for 3D and 2D viewing- PDF, DXF, DWF, JT and many more.

- ☐ **CDAT** – Creo Direct Add to Teamceneter - Bulk loader available to quickly load your legacy data, existing assemblies, parts and drawings into Teamcenter

- ☐ Sharepoint-like, **Item Based data management:** you can save drawings to the pseudo folders in Teamcenter and avoid complex structure and filenames maintained out of PLM system

- ☐ **Active Workspace** - Teamcenter's html portal - Embedded in the Creo Direct session – Full power of Teamcenter, available where needed, when needed, for the whole organization from an internet browser.

CREO-Direct SUPPORT

- ✓ Pkg load from filesystem
- ✓ Pkg + Properties from ModelManager
- ✓ Containers (Datasets)
- ✓ Copy and Share features
- ✓ Configuration
- ✓ Inseparable assemblies
- ✓ Maintain Managed Drawing Templates
- ✓ Link between 2D and 3D Model

CDEC - Creo Direct Embedded Client Specification

Open User can browse/search and Open a Creo file from Teamcenter. The search queries in the drop down of the Open Dialog are configurable in TeamCenter.

Save is done through a grid dialog, a single place for different operations to be performed by the User. User has the possibility to save one or more or all parts in the session. Possible action values such as Skip/Revise /Overwrite could be specified by the user through single or bulk edit.

Save to Teamcenter Interactive Dialogue

*	Component	Item ID	Item Revision ID	Issue	Action	Description	Design Type	Finish Treatment	Material	Product Number
	Stukdrager_H	000530	A	ⓘ	OverWrite		Control Gauge	EMC Coating	Acrylic	St530
	a1	000531	A	ⓘ	Skip		Control Gauge	EMC Coating	Acrylic	a1005
	101VH_steunschijfje3.3	000532	A	ⓘ	Revise		Control Gauge	EMC Coating	Acrylic	101532
	101VH_steunschijfje3.2	000533	A	ⓘ	OverWrite		Control Gauge	EMC Coating	Acrylic	152kh
	101VH_steunschijfje3.4	000534	A	ⓘ	Skip		Control Gauge	EMC Coating	Acrylic	PN1245
	101VH_steunschijfje3.1	000535	A	ⓘ	Revise		Control Gauge	EMC Coating	Acrylic	PN458
	102H_PLAAT_HOUDER	000536	A	ⓘ	Skip		Control Gauge	EMC Coating	Acrylic	PN5869
	NH_insert_ASME_4-36.1	000537	A	ⓘ	OverWrite		Control Gauge	EMC Coating	Acrylic	PN537

The user will be able to edit the Properties which are exchanged by attribute mapping definition between TC and Creo Direct.
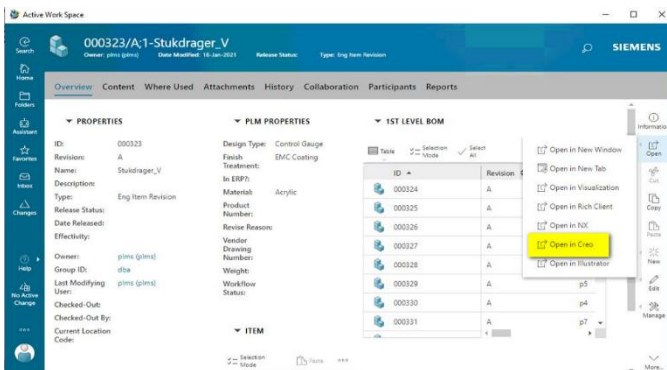
The **issue column** provides information through intuitive icons so that the user can take appropriate action to upload. The CREO data is saved to the cache and can later be uploaded to Teamcenter using the Cache Assistant.

AWC User in Active Workspace can browse for the data through Active Workspace and Open it in Creo right away. CDEC offers the Active Workspace Plugin with which the user controls when/where Teamcenter Active Workspace appears for data management tasks.

Embedded Active Workspace

Check Out Check In User can manually check out to lock for editing the model and check-in to save the changes to Teamcenter. This intelligent **item-based concept** with a client cash system in the background enables teams to work in context of the same assembly simultaneously.

Selectively update in-session models to later versions or different revisions without the need to reload your assembly.

New Workflow Process User can select one or more objects in the creo navigator and start a workflow on the selected objects directly from the Creo Direct Session without switching to Teamcenter. Workflows are digitalized business processes managed by TeamCenter and TC Dispatcher.

Session Management CDEC and CDAT use the default Teamcenter Security Authentication concepts such as User and Group Based, thereby ensuring safe and secure access of data by the users in the Organization.

Neutral Files
User has the choice to let the dispatcher generate the neutral files or use the options from menu to generate the neutral files immediately on demand.
The CDEC installation provides default dispatcher translators creo-to-dxf, creo-to-dwg, creo-to-step.

All the neutral files will be attached next to the creo dataset in the item revision, which can be shared with your supplier's through an online, secure **supplier collaboration portal**.

Visualization Files
The generation of PDF, JT files can be generated on demand from Creo, or can be automated **to eliminate repetitive manual tasks.** Because of the saved PDF, JT files, non-creo user can visualize the drawings and the 3D model or Assembly with the Active Workspace Visualization.

CDAT - creo Direct Add to TeamCenter Interactive

Creo Add to Teamcenter is an application used to add Creo files unmanaged from File System, or managed in Model Manager, migrating to Teamcenter, **without any loss of Intelligence**. In contrary, we eliminate duplicates, enrich the part - and assembly properties on the fly, or in bulk with Live MS Office Live Excel TeamCenter Integration.

The Creo Add to Teamcenter Interactive wizard recommends the data to be prepared before it can be loaded into the tool. The package offers a **data preparation tool** which can be configured according to the data model and data enrichment requirements, company standards and naming rules.

TeamCenter Advantage

The CreoDirect integration is supported by both Teamcenter and the PLM-S Teamcenter Foundation, which power innovation and productivity by connecting people and business processes with knowledge.

• **TeamCenter** is the de facto standard for PLM deployments and is backed by Siemens PLM Software's leadership in delivery. Users of TC can easily expand the scope of their PLM implementation by taking advantage of a comprehensive portfolio of applications as well as its proven scalability in terms of performance and global implementation.

• **TeamCenter PLM-S Foundation** is a pre-configured START Implementation deployment for Teamcenter that manages design, project – and product data, BOM's as well as everyday tasks and processes, providing an ideal entry point into professional PLM with industry standards and best-practices.
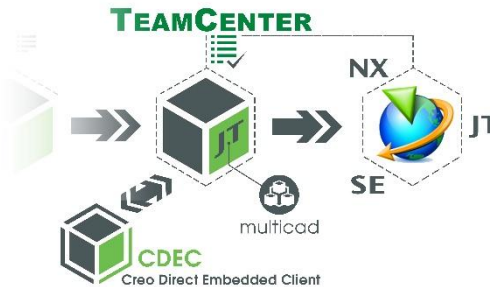
Multi-CAD collaboration

Teamcenter multi-CAD support enables design teams to create and modify component designs on any major CAD system and assemble their innovations and modifications into a multi-CAD product design.

TC synchronizes product information to ensure that all teams are working from the latest designs, **while automatically managing both native and neutral CAD representations to eliminate delays caused by constant data translations.**

The innovative TC approach to multi-CAD collaboration enables your enterprise to leverage other CAD investments in addition to Creo Direct.

End-To-End Migration and Translation Capabilities

Powered by the **Elysium** CADFeature; we offer an end-to-end solution to transfer from Creo Direct to the parametric engineering platforms NX and SolidEdge.

When your engineering and design teams are ready to move to the more professional mid-range (SolidEdge) or high-end engineering platforms (NX), automated services are being configured to migrate all as selected, on demand or in batch mode.

Automated services using cutting edge **Elysium** (*) translators and geometry validation tools that translate 3D and 2D data **without loss of intelligence and associativity.**

PLM-S is an official Elysium Solution Partner offering full support, configuring and implementation services

Prerequisites

- ☐ Windows 10 Client
- ☐ Minimum Teamcenter 11.x
- ☐ TeamCenter 4Tier Architecture
- ☐ Minimum Creo Direct > 18.x
- ☐ Model Manager (Optional)

    If Work Manager, Contact Support

Installation

Client- Done through MSI Installer
Server- Done through TEM Installation

Training & Coaching

Users with prior Teamcenter User Experience can be trained **1-2 days**

Maintenance

Supports all Teamcenter Releases under Maintenance. **Continuous development and improvement program** to constantly introduce new features into the Product, driven by insights and suggestions of our clients.

 PLM-S or Product Lifecycle Management – Systems arose from the successful partnership & cooperation between D.Cloostermans - Huwaert (BE), 3DEngineering FZE (UAE) and Siemens Digital Industries Software (BeNeLux)

The unique combination of 3 generations innovative engineering and 20 years of international project experience with cutting edge PLM applications enables us to deliver everything you can expect from a Siemens PLM total Solution partner

With our main focus on Enterprise Digitalization through Product Lifecycle Management; PLM-S configures, supports, customizes and maintains all integrated CAx applications to manage **Digital Twins**

Most importantly, as established and independent consultants, we deliver end-to-end solutions, working together with our customers to build excellent and long - lasting customer relations.

" Because of our digitalization and innovation passion; more than 10 years' experience in auditing and inspiring engineering departments; we can advise on solutions to keep up with fast evolving markets, enterprise digitalization's, and industry 4.0 "