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EPS
Engineering Process Sampler

*The Bidirectional Interface Between
Creo® View and Creo® Parametric/Catia V5*

Engineering Process Sampler (EPS) 3.0

The Engineering Process Sampler (EPS) application from CADS Engineering GmbH is a bi-directional interface between the viewing solution called Creo® View and the CAD system called Creo® Parametric (both were developed by the manufacturer PTC Inc.). As an alternative CAD system, CATIA V5 from Dassault Systems can also be used — likewise in combination with Windchill PDMLink and Creo® View.

EPS enables efficient working with large assemblies
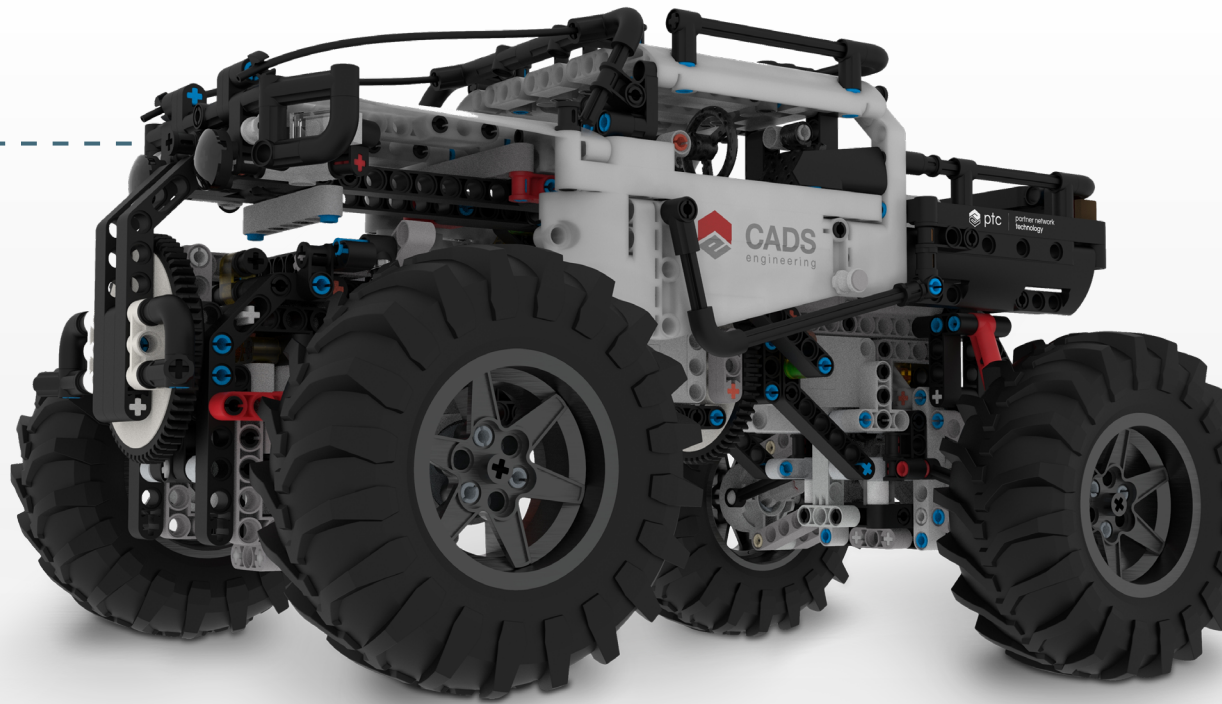
The EPS Methodology

The EPS application enables designers to quickly and efficiently create partial quantities (subsets) from the digital mock-up (visualisation data from Creo® View) or opening them directly within the CAD system. By using the subsets/components, the designer can make changes, create drafts of models and variants, examine assembly conditions and much more as well as utilise all the possibilities offered by Creo® Parametric.

Moreover, by using the EPS application, various settings can be implemented, e.g. from what level structures are supposed to be loaded or how components are supposed to be positioned to each other. Even the assembly of variants that previously did not exist is possible.

A core function of EPS is the proximity search. This function enables the user to define subsets across the entire product structure with only a few mouse clicks. The creation and/or maintenance of simplified displays in Creo® Parametric are thus handled by the EPS application.

Completely Integrated into Creo® Parametric

With the EPS Version 3.0, there is also a big change in the user interface: EPS for Creo® Parametric has now been completely integrated into Creo® Parametric UI.

This makes the work thus even more productive and enables the user to attain a seamless interaction between the visualisation data and the CAD model.
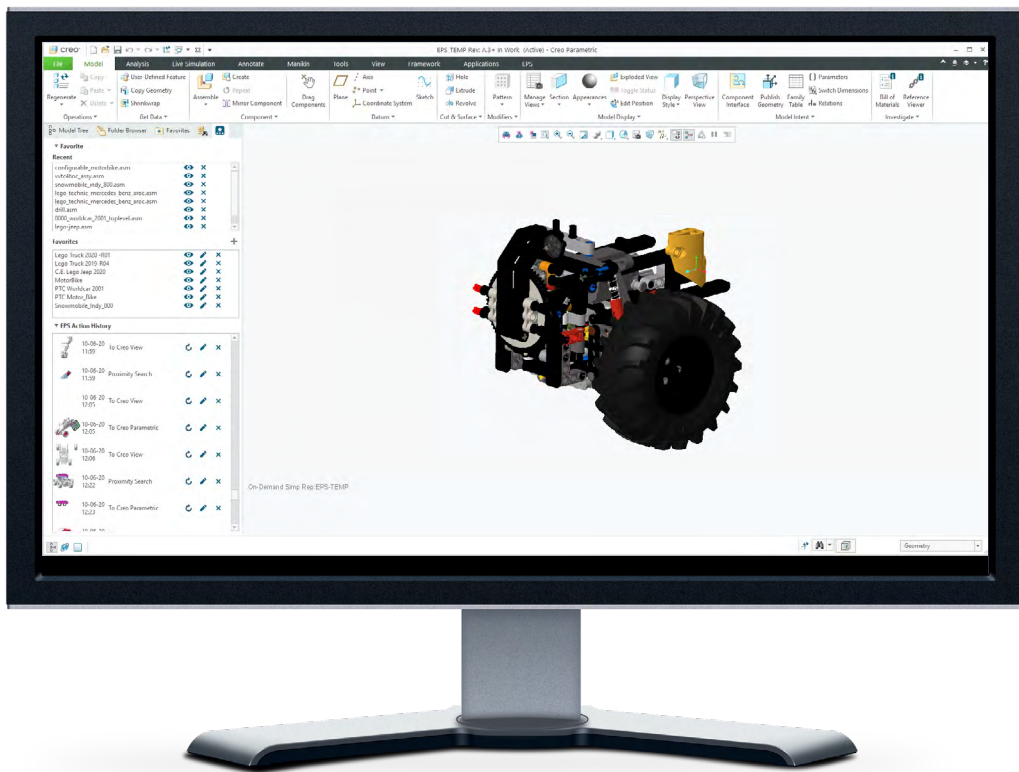
New user interface for seamless interaction
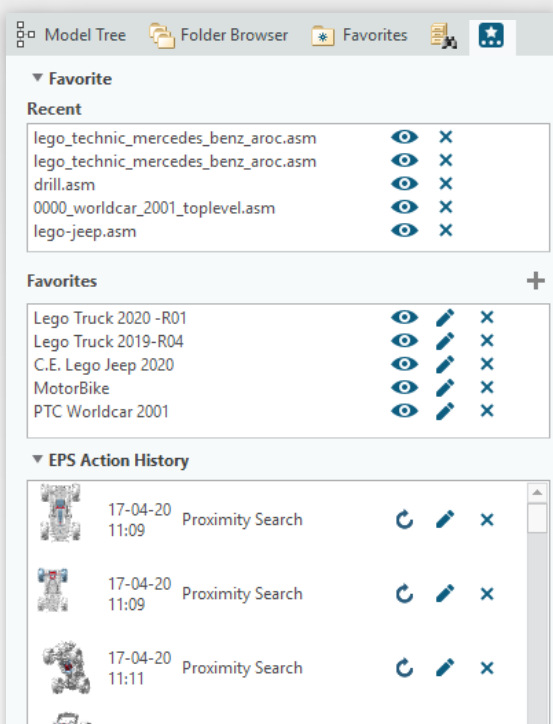
Functions such as the favourites bookmarking management system or the action history have been transparently integrated into the model tree.

You can find the most important functions in the context menu or the graphics toolbar.

Dynamic Proximity Search

A highlight of the new version is the dynamic up-dating of the proximity search. Simply change the distance value of the components to be considered within Creo® Parametric and track the results in real time in Creo® View.

- ● *Selected model*
- ◉ *Adjacent model*
- ○ *Not adjacent model*
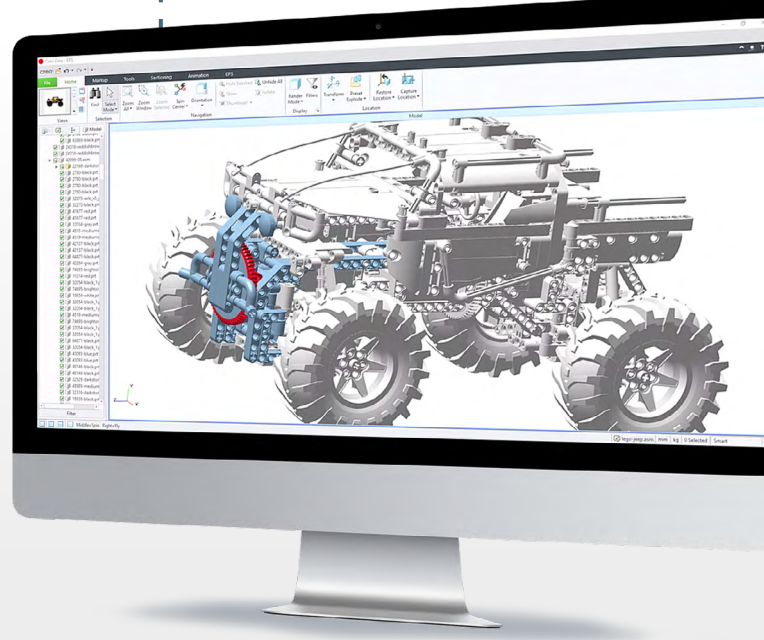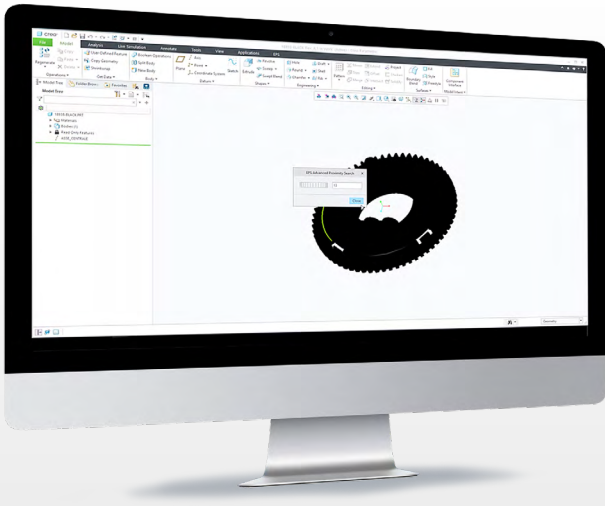
Direct Opening of Assembly Units and Components from the Visualisation in CAD and Back Again

By using Version 3.0 of EPS, it is possible to open individual components and assembly units directly from the visualisation data in Creo® Parametric, to then edit them and also to subsequently directly send them back once again to Creo® View – and all of this without requiring an EPS assembly unit. Particularly if no subset is required that has been allocated across the assembly unit, this function can hardly be beat with regards to performance and efficiency. Owing to the possibility of checking and/or testing the changes to components and assembly units in as many visualisation models as desired, you can determine very easily and quickly whether this entails, for example, a compatible or an incompatible change.

The performance and speed of the function via which work can be done across the entire product portfolio cannot be attained via a CAD system whereby CAD systems are also not designed for conducting such tests and their strengths thus lie in other areas.

|	Open with EPS	Open in CAD directly
Open Subset	✓	✗
Open and Modify in CAD (single part or assy)	✓	✓
Transfer to Creo® View	✓	✓
Create new Structures	✓	✗
Proximity Search	✓	✓
Set Structure Level	✓	✗
Update Sim.Reps	✓	✗
Add new parts	✓	✓

▲ *Difference between "directly open" and "open with EPS"*

Favourites and Actions in the Model Tree

Via the complete integration of EPS 3.0 in Creo® Parametric, the management of the favourites and/or the most recently-opened files has also changed.

Displays, supplementations and deletions function with only a few mouse clicks and without an administrator. The user must merely enter the name and the link to the detailed page. Optionally, he can also enter the context. By so doing, a pre-selection process is implemented and only models are displayed which are available in the context that is currently being used.

In the Action History, all EPS actions are listed and can be "repeated" quite easily. This is then above all advantageous if you occasionally move back and forth between different versions, but always would like to use the same basis for the creation of your subsets. With only a few mouse clicks, you can create design environments with updated data within only a few seconds which otherwise would take hours or even days.
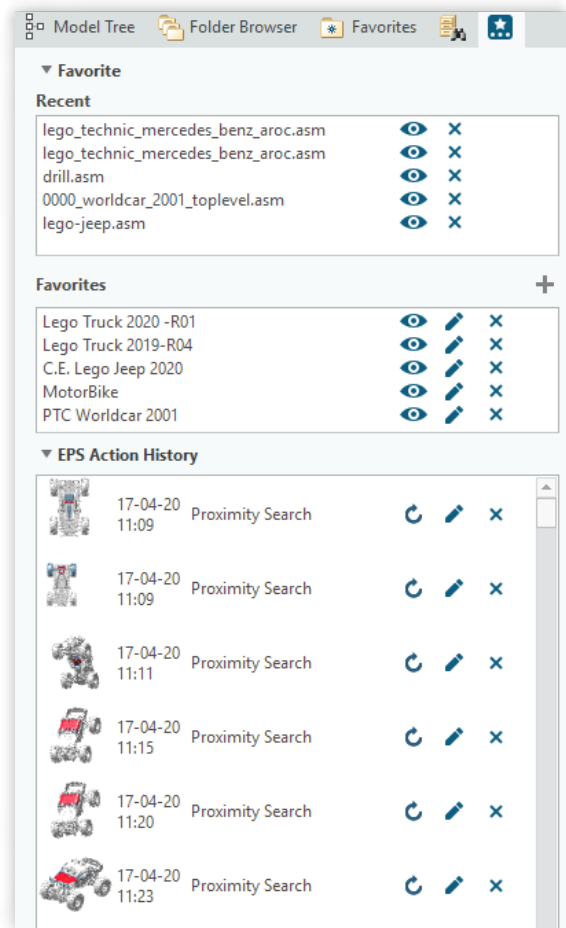
EPS Licence Packages

Module	EPS-Essentials	EPS-Premium	EPS-Light*	Subscription Module
EPS-Foundation	●	●	–	–
EPS for Creo®	●	●	–	–
EPS for CATIA V5	○	●	–	–
EPS-Caching Extension	●	●	–	–
EPS-Messenger Ext.	–	●	○	€ 295.-
EPS Light Client for Windows 10 & Apple iOS*	–	–	●	–
Subscription Package:	**€ 1695.-**	**€ 1950.-**	**€ 995.-**	

● *Included in package* | ○ *Optionally available* | – *Not included in package* | * *Available from autumn 2020*