

EPLAN

efficient engineering.

Schematic creation

manual



automated

EPLAN Cogineer

PROCESS CONSULTING

ENGINEERING SOFTWARE

IMPLEMENTATION

GLOBAL SUPPORT

FRIEDHELM LOH GROUP

EPLAN Software and Service



EPLAN Cogineer

A revolution in engineering

- Automated schematics
- Configuration for everyone
- No detailed knowledge required

EPLAN Cogineer

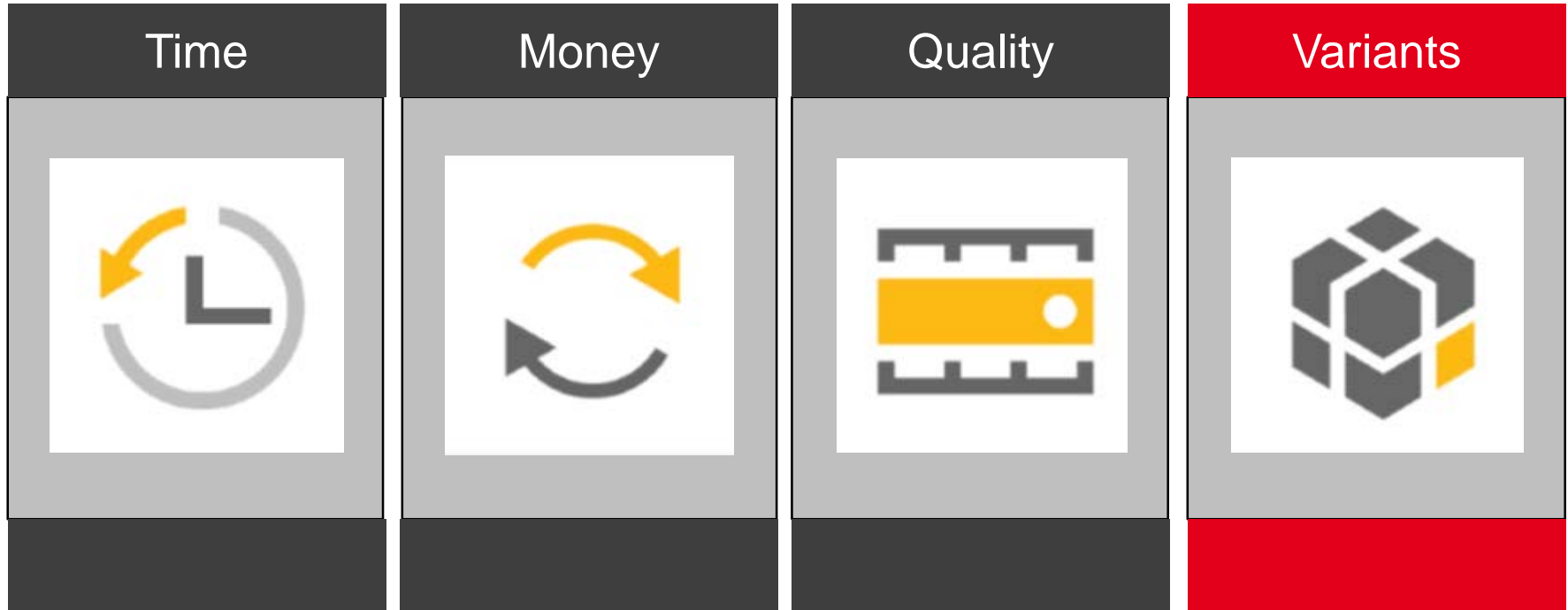
EPLAN Cogineer and what it means



- Configuration for everyone

EPLAN Cogineer

Actual company challenges



▶ Create greater efficiency, even for a project Quantity of 1



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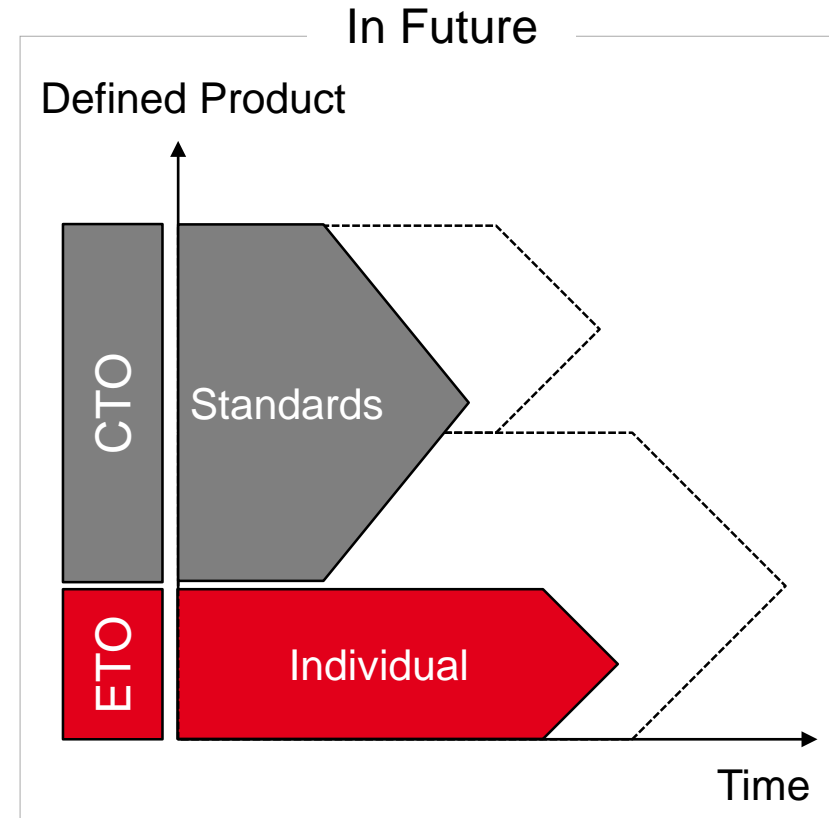
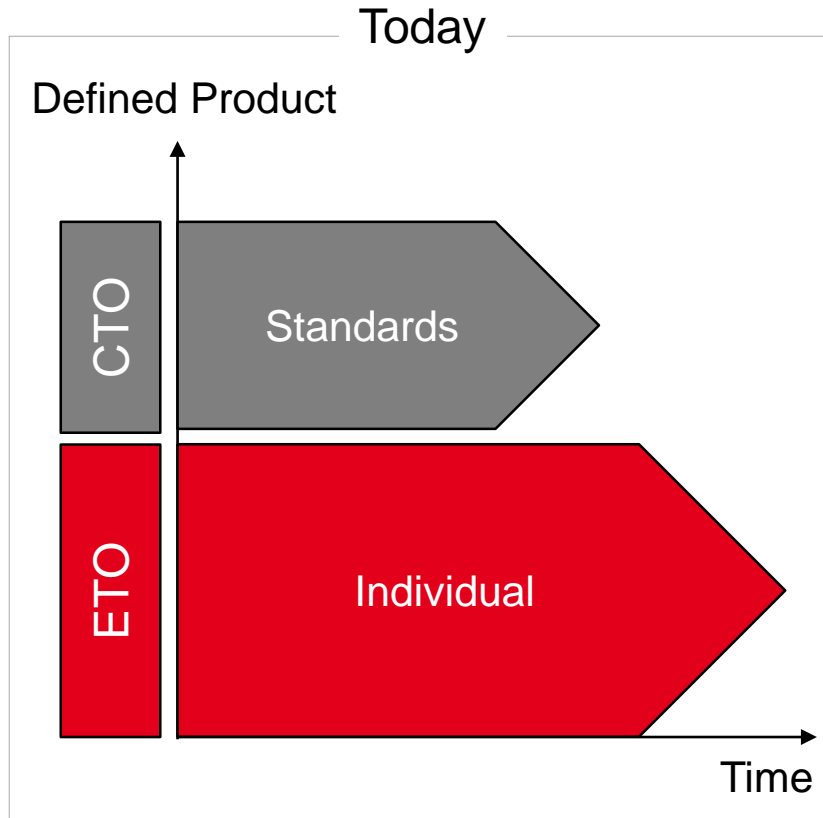
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Solution – New strategy in variant management



ETO ... Engineer to Order

CTO ... Configure to Order

▶ Increase re-use in engineering processes

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Customer feedback

They said yes to increasing standards, yes to variant management being important, yes to change to a configure to order engineering process, **but!**

- Nobody has time to implement the process changes
- The effort has no relation to the savings
- To create the rule book, the mechatronics building blocks and the required user interface you will need expert knowledge in programming
- Existing product- and master data are not re-usable
- Product structuring and configuration is just something for machine builder



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EPLAN motivation to develop Cogineer

Machine/Plant builder, Panel Builder and Component Producer, they all have the same needs – to work more efficiently.

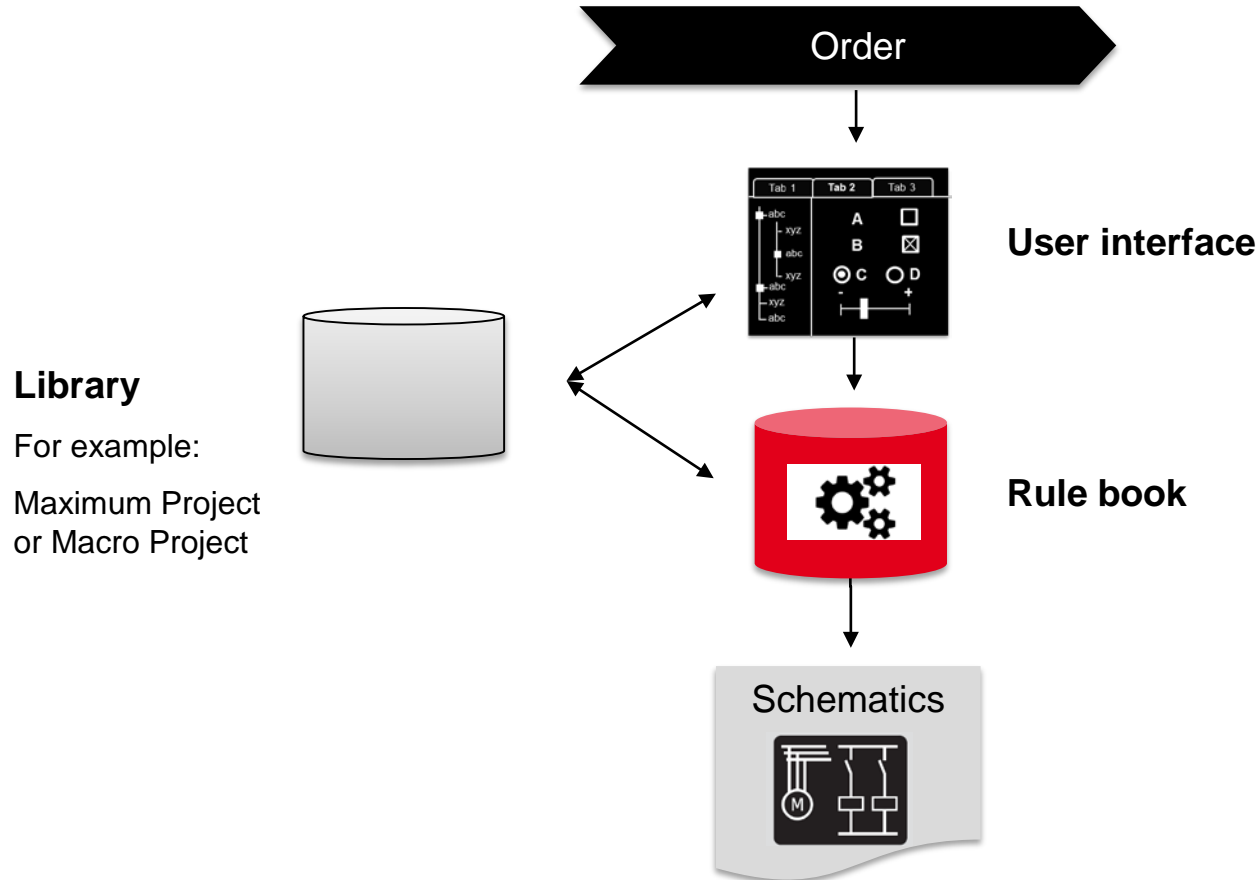
However, they need a tool...

- which is able to generate schematics automatically
- which is useful for their buisness
- which is easy to handle
- which works without any process improvements
- which is scalable without effort



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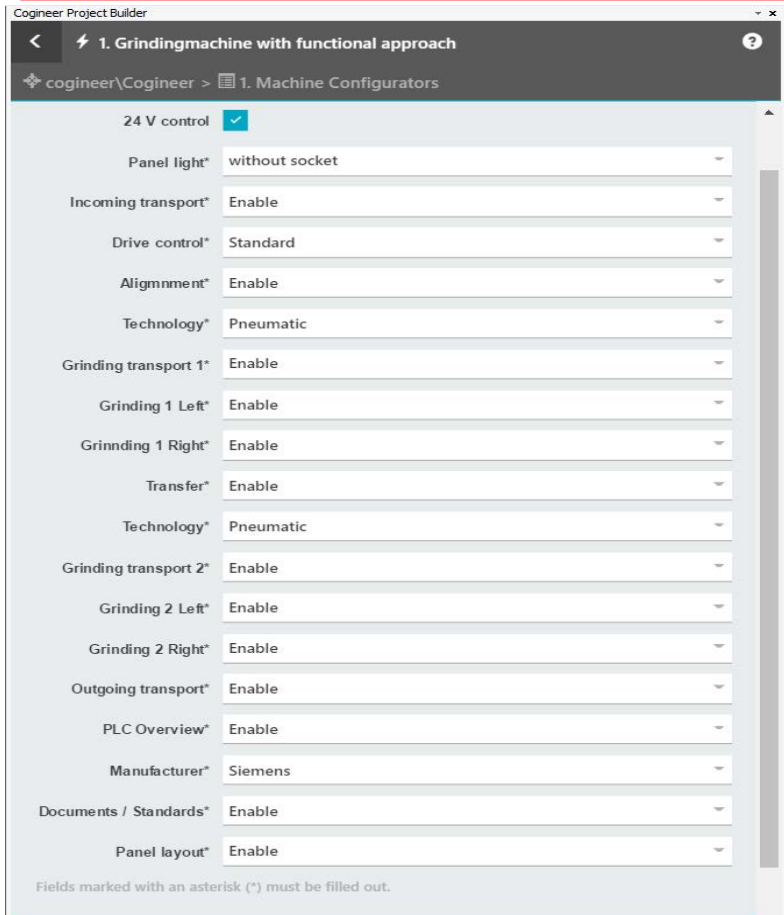
How it works



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Schematics at the click of a button

User interface created automatically for the configuration aspect



- No programming skills required
- Scalable/individual Form
- Integration in to the EPLAN Platform
- No additional Programs required
- Fast creation of custom specific documents (as build)



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Schematics at the click of a button

Different working methods can be combined

Practical creation of configuration and classic design method

The screenshot displays the EPLAN Electric P8 interface. On the left, the 'EC Project Builder' panel is active, showing a tree view of project components. The main workspace on the right contains a detailed electrical schematic diagram with various components and wiring. A green diagonal watermark is overlaid on the diagram, reading 'Configuration' and 'Classic design method'.



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Schematics at the click of a button

Simple creation of the rule book, automatic creation of the user interface for configuration

The image displays two screenshots from the EPLAN Cogeener software. The left screenshot shows the 'CONFIGURATION VARIABLES' table for the 'Z999 Schleifmaschine konfigurierbar' project. A red circle highlights the 'Mandatory' column, which contains red checkmarks for several variables. The right screenshot shows the generated user interface for the same project, with a red circle highlighting the 'Generate Configuration' button at the bottom.

Name	Type	Display name	Mandatory
SUPPLY	String	Typ der Versorgung	<input checked="" type="checkbox"/>
TT_VM	Boolean	Option Spannungsmessgerät	<input checked="" type="checkbox"/>
TT_DD	Boolean	Option Anzeige Bewegungsrichtung B01	<input checked="" type="checkbox"/>
TT_FT	Boolean	Option Temperaturüberwachung für B01	<input checked="" type="checkbox"/>
TT_LT	Boolean	Option Beleuchtung und Steckdosen	<input checked="" type="checkbox"/>
TT_PL_C MANUF	String	SPS Hersteller	<input checked="" type="checkbox"/>
	String		

Fields marked with an asterisk (*) are mandatory in the user interface:

- Typ der Versorgung* Serie 32 A
- Option Spannungsmessgerät*
- Option Anzeige Bewegungsrichtung B01*
- Option Temperaturüberwachung für B01*
- Option Beleuchtung und Steckdosen*
- SPS Hersteller* Phoenix Contact

Generate Configuration

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Schematics at the click of a button

Individual use of multi configurations

The screenshot displays the EPLAN Cogineer software interface. On the left, a configuration panel titled '500 Multi Antriebsauslegung' is visible. It contains several dropdown menus and text fields for configuring a drive system. The configuration includes:

- Funktionstext des Antriebes: Transportband
- Welches Seiten-Funktionskennzeichen: A1
- In welchem Schaltschrank: O2
- Auswahl der Motorsteuerung*: Softstarter
- Benötigte Motorleistung*: Motor 0,75KW
- Verbindungsart zum Motor*: Steckvorrichtung
- Betriebsmittelkennzeichen Motor: M10
- Einbaort des Motors: O10

Below the configuration panel, a red button labeled 'Konfiguration generieren' is present. A note at the bottom of the panel reads: 'MIT * MARKIERTEN FELDER MÜSSEN AUSGEFÜLLT WERDEN'. On the right side of the interface, a schematic diagram is displayed, showing a motor circuit with various components like a soft starter, contactors, and a motor. The diagram is labeled 'Transportband' at the bottom.

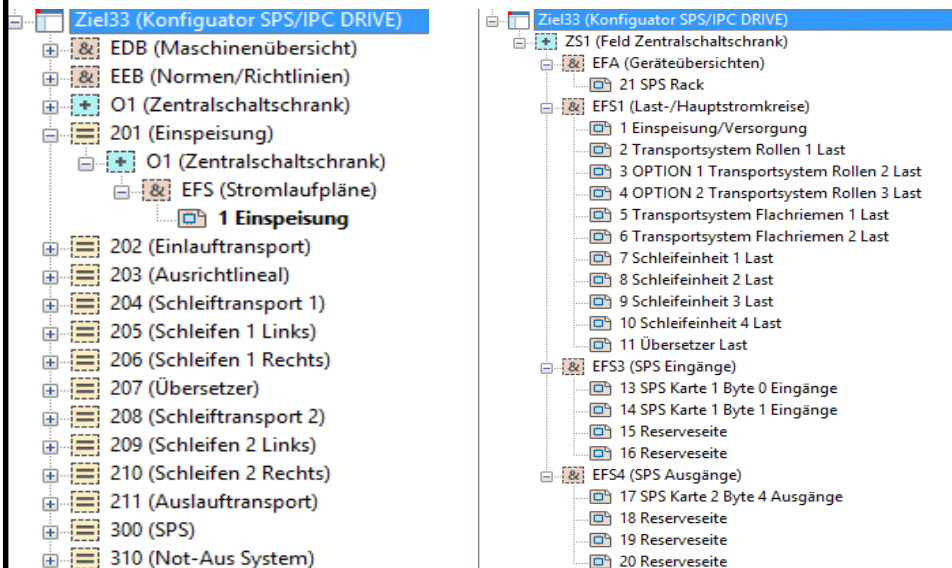
- Easy re-use of standard circuits
- Calculation and dimensioning of technical solutions
- Individual use of manufacturer data

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Schematics at the click of a button

Usable right away and without any changes of your current designing style and method.

Different design concepts



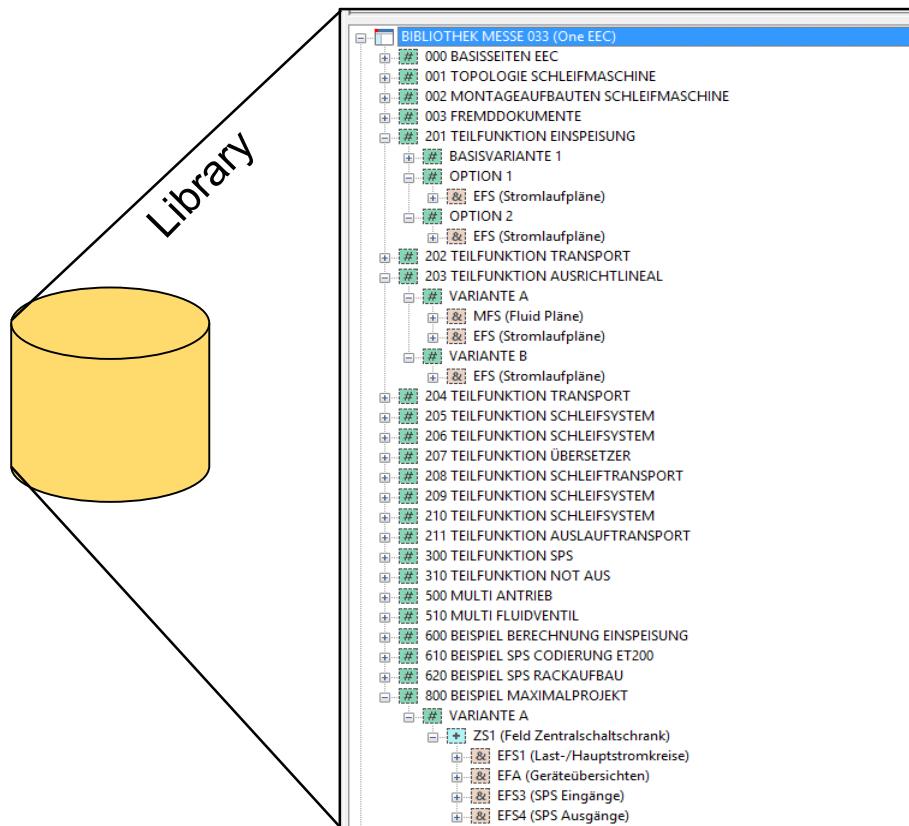
- Maximum projects (150% Project)
- Projects with options
- Function oriented Projects
- Manufacturing oriented Projects



EPLAN Cograener

Schematics at the click of a button

Centralised Library



Centralised Data management for:

- Schematic Macros
- Parts Macros
- Typicals
- Configurations

Revisionable

- Secured usage of Company Standards



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Live Demo



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Are there any questions?



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Thank you!



Sneak Preview - EPLAN Cogineer

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