

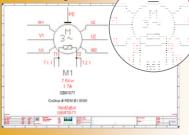
StartUp! - the easy way to change...

"The easy way to change your system" is here, Based on important and comprehensible Facts that answer your questions.

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Projektvenante-ontlichen Resattede ant von (Kürzel)	Andreas Peters 18.01.2016 AP	Bagate	2016	
Arcahl der Seiten:	3965			









When I am or is the Company again productive?

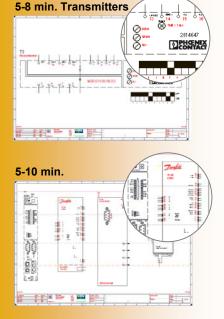
The following points are important for successful automation in the field of electrical engineering.

- ResourcesStock dataEducation
- Time requirement
- Costs
- Resources:

The different CAE systems have very different ways to create and manage their resources. For optimal utilization of the capabilities of **BS***plan*[®] and **B***space*[®] it is advisable to re-create the resources with **BS***plan*[®]. This ensures that the full potential is used. In the case of a data transfer, the smallest commonality is generally assumed. Detailed queries such as grid, pin spacing, symbol size and content are decisive for the success or the greatest possible added value.

For the purpose of orientation, we have attached an extract of the more or less complex symbols and drawings in order tob e able to assess the time required.

The following tables contain listings of the commonly used resources and expenses for system changeover. The data is based on a trained employee as well as on 500 symbols in the 2D / 3D area. This included employee training and the adaptation to the ERP-System.



For an employee -	- 500 2D symbol	s and 500 3D	symbols table 1:

Designation	Quantity		Minutes		60	8	
-	Sym.	Sheet	pro Sym.	Total	Hours	Days	Roundet up
Titel sheet, Hints generate		5	10	50			
Frame generate		5	10	50			
Normal Symbols	200		2	400			
Contactro-Symbol types generate	150		3	450			
FU-Symbol types generate	50		12	600			
PLC-Symbol types generate	100		10	1.000			
3D devices im STEP or Nativ	500		5	2.500			
Total sum	1000			5.050	84,2	10,5	11

Activities	Quantity				
Symbols + Pauses + Disturbances	1000	additional markon days	3	14	Tage
ERP Connection / BOM	1			1	Tag
Basic Training 2D	1			3	Tage
Basic Training 3D	1			2	Tage
Total sum				20	Tage



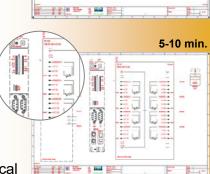
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Stock Data:

The CAE-Systems offer as is generally known no uniform and neutral interface. Thus intelligent data exchange with *"living"* projects is not possible. The integrated 2D CAD core in the **Bp***lan*[®] and the 3D CAD core in **B***space*[®] makes it possible to transfer the 2D drawings in DWG-Format and the 3D data for the commercially available 3D systems in the native format. This allows quick small changes in the 2D drawing.

For larger changes, tracing with CAE intelligence would be a good idea. Intelligent repeat parts such as Symbols and Macros are used during tracing. The average values for a 1.000 page project included in the table below are derived from empirical values.

Designation	Quantity		Minutes				
-	Sym. Sheet pro Sy	pro Sym.	Total	Hours	Days	Roundet up	
Titel sheet, Hints generate		5	10	50			
Frame generate		5	10	50			
Symbols on the average	100		4	400			
Project Drawing on the average		1000	5	5.000			
Total sum				5.500	91.7	11.5	12



10 min.

8 min.

Education:

By participating in our training, you get the fastest and most economical benefits with our products **ES***plan*[®] & **E***space*[®]. On the basis of our experience in training, you can work out your knowledge efficiently and quickly through us. As already listed in the first table two basic training courses are provided for the quick introduction.

ESplan[®] Basic Training (2D) - 3 Days:

Contents:

 Image: 2D CAD-Core:
 Dealing with 2D functionaliti

 Icon Creation:
 Types and functions

 Macro Creation:
 logistical usability

 Forms:
 Frame, Cover sheet, Termin

 Free Drawing:
 Dealing with geometry

 Circuit Planning:
 Structure, Evaluation, Data

Dealing with 2D functionalities in **BN***plan*[®] Types and functions logistical usability Frame, Cover sheet, Terminal plan, Part list Dealing with geometry Structure, Evaluation, Data export, Part list, Cables, etc.

Espace[®] Basic Training (3D) - 2 Days:

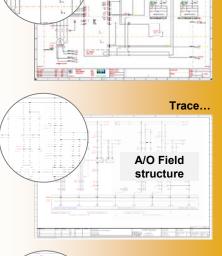
Contents:

- 3D CAD-Core:Device Creation:
- Assembly:
- Assemi
 Wirina:
- Routes:
- Production Data:

Dealing with the 3D functionalities in **Espace**[®] Assignment of Connection-Pins, Device tag and Article data Cabinet fitting based on current flow planning controlled wire generation Cable routing in the Control-Cabinet and Plant / Machine Data export of drill data, Piece / Cable lists, etc.

Costs:

In the upper part, we have illuminated the technology and the training. The assessment also includes on ROI analysis.







ROI Consideration:

The following points are relevant for an ROI-View.

Required Workdays In approx. 1 month Seminar 2D Seminar 3D ERP Connection Resources 0 5 10 15 20 approx. 17 Days









- Start of productivity
 Investment for an
 - Investment for an **E** plan[®] & **E** space[®] Workstation*
- Savings & Revenues
- Added Value

Start of Productivity:

When I am or is the Company again productive?

As already seen in Table 2 or from the diagram "required workdays", the introduction phase incl. Seminars, ERP-Connection and Creation of 500 2D/3D symbols, based on one employee takes just 17 working days. In other words, you are max. In a month after purchasing our Software again

productive. The information may change if you have more than 500 symbols or have to consider the day's business.

Investment:

The investment for an **ES***plan*[®] & **B***space*[®] workplace incl. Maintenance, Seminars and ERP-Connection amounts to approx. 30.000,- €. *We grant special conditions from the second job. Furthermore, the ERP-Connections is calculated once only.

Savings & Revenues:

The potential for savings and sales is based on the performance of our Products \mathbb{E} plan[®] & \mathbb{E} space[®]. Based on customer statements, you are twice as fast with our products as before. Employee costs and sales figures are used to determine possible potentials. For the following assumptions, wage costs of 55,- \in and the previous year's turnover of 110.000,- \in , the total potential of 114.400,- \in in the first year (see also the chart Employees / Sales).

Added Value:

What added value do I have or the Company?

The Company has the opportunity to achieve higher project throughput through the use of **ES***plan*[®] & **E***space*[®] as well as to reduce or completely eliminate cost-intensive media breaks (potential sources of error). Based on an average productivity in the first year of about 60%, the "ROI" occurs after 6 month. The investment costs and / or the "ROI" including the above described resource creation are achieved after 6 month.

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 Year

Also consider the annual added value (€) versuse the "Status Quo" !

1 month for installation, seminars, ERP connection and resources



Resource Provisioning – The efficient Entry:

We provide the following resources at not charge for the quick introduction or changeover when purchasing an **BS***plan*[®] & **B***space*[®] CAx solution.

The **ES***plan*[®] Deployment includes:

The **Espace**[®] Deployment includes:

3D Symbols	= approx. 30	0 BMK area K, S, H, F, R, L, C, M, I, T, Q, G, P, N, PLC, Hydraulics
3D Macros	= approx. 20	0 Macro range – various Siemens SPS modules etc.
3DS Models	= approx. 45	0 Switchgear, Support rails, Cable ducts, Accessories, etc.

Resource Partserver – Finding the efficient!

Provide resources for our customers on a Part Server.

- 2D Symbols
- 2D Macros 2
- 3D Symbols .
- 3D Macros

Resource Service – The efficient changeover! *

Prepare your resources for a smooth transition. In detail, this means that we can transfer this preparation to our **ENplan®** & **Espace**® compliant formats in a certain scope and according to documented customer specifications or customer templates in the form of DXF, DWG or PDF.

Preparation of the following CAE data from your existing CAE tool and transfer
to our E Splan [®] & E space [®]

1	Up to	500	Symbols
1	Up to	500	E-Function Macros
1	Up to	500	Contactor Types
1	Up to	500	Cable Types
1		1	Material Database Connection
1		1	Title page, table of contents, drawing frame, Cable overview, Cable plan

* If you are interested, we will gladly prepare an individual offer for your data.







