Expansion of the Balluff catalog with CAE data
37 SUBSIDIARIES WITH ADDITIONAL REPRESENTATIONS AND 10 PRODUCTION SITES IN 68 COUNTRIES, MORE THAN 4000 EMPLOYEES
WITH EXPERIENCE AND COMPETENCE IN MANY SECTORS:

- Automobile industry
- Electric drive technology
- Energy
- Factory automation
- Semiconductor industry
- Hydraulic drive technology
- Plastics, rubber and tyres
- Life science
- Metal processing
- Steel industry
- Packaging industry
REFERENCES
WE ARE COMMITTED TO
THE FOLLOWING COMPANIES
TO NAME A FEW:

[Logos of various companies]
Expansion of the Balluff catalog with CAE data

- Growing customer demand
- Technical and organisational implementation
- Initial experiences
- CAD, CAE, Rendering – three sides of a process
- Additional objectives
IDEA AND INITIAL EXPERIENCES

Growing customer demand a reason for EPLAN files procurement
Since 2018 – in cooperation with CADENAS
eCAD or electronic CAD data with Balluff includes:
- table of functions
- the circuit diagram as macros ready to use
- technical product information
- product images
- links to the technical data sheets and website

The eCAD data serves for the creation of electric and pneumatic circuit diagrams. In addition to the mCAD design data – eCAD data a part of the computer-aided design.
Previous experiences with CAE creation with CADENAS:

- Positive customer feedback
- 800 eCAD downloads in February
- Standard process and „Fastlane“ defined (Macros in 24h at the customer's)
- Very good quality of the macros, further independent development
- eCAD preview of products via eCAD portal possible
- eCAD data can be called up directly via the Balluff website
IMPLEMENTATION AND ORGANISATION AT BALLUFF
We have defined 3 categories of CAE orders:

- New products
  - Standard planning
- Filling of data gaps
  - Standard planning
- Customer requests
  - "Fastlane" creation
An Excel export file serves to create the mCAD, eCAD and renderings data

<table>
<thead>
<tr>
<th>PV</th>
<th>AB</th>
<th>BC</th>
<th>ST</th>
<th>CAD available</th>
<th>CAE available</th>
<th>PX</th>
<th>Connector Diagram FILE</th>
<th>Connector view caption</th>
<th>Wiring Diagrams FILE</th>
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<tbody>
<tr>
<td>PV11983B2</td>
<td>BNI: IOL-803-102-R036</td>
<td>BNI00CZ</td>
<td>AF</td>
<td>yes</td>
<td>no</td>
<td>VIU_56673_00_000.tif</td>
<td>VIU_56805_00_000.tif</td>
<td>PIN 1: +24V; PIN 3: GND, reference potential; PIN 4: C/Q, IO-Link DC Channel; IO-Link interface; PIN 2: Comm. (Exp. Mode)</td>
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**Wiring diagram caption**

<table>
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<tr>
<th>Ref Image</th>
<th>Approval/Conformity</th>
<th>Frame type</th>
<th>Height</th>
<th>Length</th>
<th>Mounting</th>
<th>Width</th>
<th>Colors, number</th>
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</thead>
<tbody>
<tr>
<td>56673_00_P_00_00_00.png</td>
<td>CE; cULus; WEEE</td>
<td>2.1V</td>
<td>62.4 mm</td>
<td>57.5 mm</td>
<td>Screws M22</td>
<td>61.8 mm</td>
<td>7</td>
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</table>

**Contact, surface protection**

<table>
<thead>
<tr>
<th>Housing material primary</th>
<th>Housing material secondary</th>
<th>Net weight</th>
<th>Weight unit</th>
<th>Product Group</th>
<th>Product Family name</th>
<th>Parent part name</th>
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</thead>
<tbody>
<tr>
<td>nickel plated 2 µm/gold plated 0.4 µm</td>
<td>PC</td>
<td>Transparent</td>
<td>PPS</td>
<td>118.182</td>
<td>GRM</td>
<td>Signaling and Display Units</td>
</tr>
</tbody>
</table>

We have developed a guideline on the basis of which the CADENAS team decides for themselves, whether a 3D or 2D macro is needed.
After creation and release, the data is sent to

- EPLAN portal
- CADENAS portal
- onto the Balluff homepage (link to the eCAD CADENAS portal in the download area).

https://www.balluff.com/local/de/productfinder/#?data=selection%5Bca%5D%3DA0013%26selection%5Bcg%5D%3D%26selection%5Bproduct%5D%3DG1301%26selection%5Bproduct_variant%5D%3DPV152273
IMPLEMENTATION AND ORGANISATION AT BALLUFF

SmartLight – LED-Signalsäulen

Start > Systeme > SensorModule > SmartLight – LED-Signalsäulen

Bezeichnung: BNI0072

Preis: 369,00 EUR

Für individuelle Preise melden Sie sich bitte im Warenkorb an.

Zubehör
Downloads
Kontakt aufnehmen
Auf die Merkliste

Mit unseren Meß- und Anzeigegegenständen wissen Sie jederzeit, wie es um die Produktion steht oder wo sich ein Werkzeug gerade befindet. Sie überwachen zuverlässig den Zustand von Maschinen und Anlagen und visualisieren die Ausgangssignale der Sensoren.
IMPLEMENTATION
AND ORGANISATION
AT BALLUFF

<table>
<thead>
<tr>
<th>Downloads</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Datenblatt</td>
<td>PDF Download</td>
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<tr>
<td>Deutsch</td>
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</tr>
<tr>
<td>CAD-Modelle</td>
<td>BN0072 - BNI DE-002-000-2706</td>
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<tr>
<td>CAE (ePlan)</td>
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<tr>
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<tr>
<td>Deutsch - 0,52 MB</td>
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<tr>
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IMPLEMENTATION AND ORGANISATION AT BALLUFF
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Balluff BNI0072 on PARTcommunity portal.
IMPLEMENTATION AND ORGANISATION AT BALLUFF

Balluff BNI0072 on PARTcommunity portal.
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Balluff BNI0072 on EPLAN data portal.
IMPLEMENTATION AND ORGANISATION AT BALLUFF

Link to the Balluff website

eCAD data for the configurable products.
CAD, CAE, RENDERING - THREE SIDES OF A PROCESS
CAD, CAE, RENDERING – THREE SIDES OF A PROCESS

Balluff PIM System

Export file

Rendering

mCAD

eCAD

Balluff website

CADENAS catalog

EPLAN portal
**Benefits of cooperation of Balluff with CADENAS in the CEA area. View of the catalog manufacturer.**

1. The data quality and data completeness are at a new level.

2. Data flow is used for the creation of 3 types of media (CAD, CAE, rendering).

3. Once created, CAE data is used on at least 3 platforms.

4. The flexibility of the data creation is very high.

5. When there are product changes, both mCAD and eCAD are updated.

Benefits of cooperation of Balluff with CADENAS in the CEA area. View of the customers.

1. Data quality. Along with the macros, the functional and commercial data is always available.
2. The CAD and CAE data is all from "one source", there is no contact person.
3. The CAD and CAE data has uniform technical data, drawings and symbols.
4. The data is always current.
5. Project planning and project implementation is easier and quicker for the project management.
Our objectives:

- eClass attributes as output data
- Dynamic values in edz files
- Exchange format for eCAD
- Digital twins
WE LOOK FORWARD TO FURTHER CHALLENGES.

Congratulations! You got perfect twins!
THIS IS WHERE YOU CAN REACH US

www.balluff.com