Good automation components no longer suffice for successful machine building and plant engineering projects. Efficient development and project planning is becoming ever more important. Bachmann electronic meets the requirements and supports its customers with two additional components in the integrated engineering process.

The device data necessary for electrical design of the Bachmann automation components is provided as a library in the ePLAN data portal. Macros for circuit diagram and control cabinet layout, function templates for intelligent configuration of controllers, item data for the spare parts catalog; The data that is created and certified with ePLAN can be loaded directly into the ECAD project and immediately used for the design – a significant contribution in time savings, as well as for uniform structuring of the project.

With the new eCAD import functionality in the SolutionCenter the time of automation projects can be significantly reduced. While one team plans parts lists, circuit diagrams and control cabinet layouts, another team can create the required software in parallel. Through the use of symbolic variables in the software, to this point in the project knowledge of the structure of the hardware is not required. Only through automatic import of the ECAD data into the SolutionCenter will a link be established between symbolic variables and the hardware used, and an operable software module be generated. Variants, extensions or corrections in ECAD project planning are no problem – the software module will simply be re-generated with the changed and newly-imported ECAD data.
CAE/CAD Data

**ePLAN library**
The ePLAN library contains device data, macros and technical documentation of all automation components: M1 hardware, visualization hardware and S1 servo system.

- Direct transfer from the portal into the electrical project planning
- Tested and assured quality through Certification
- Ongoing update and extension
- Support for the entire electrical project planning
  - Circuit diagrams, control cabinet layouts, Overview drawings, PLC configurations and spare part documentation
- Support for implementation of the library
- Use of design software ePLAN P8 and higher

**ECAD import in the SolutionCenter**

- Software is created with symbolic variables
- Linking of the symbolic variables with the hardware used through import of the ECAD data into the SolutionCenter
- An operable software module is generated
- Variants, extensions, or corrections in the ECAD project planning can be easily integrated at any time through subsequent import