




PcVue

Vertical Layer

Comprehensive Guide to Vertical, Object-Oriented, and Configurable Solutions with PcVue

VERTICAL LAYER APPROACH

 Revolutionizing control software platforms 

To meet the ever-increasing demands for performance and user-friendliness, the technology used in supervision must be agile and adaptable. The vertical layer facilitates faster configuration, ensures consistency across projects, minimizes errors, and reduces maintenance overheads. By badging PcVue as your own brand, you can enjoy a superior alternative to custom development with its longer time-to-market and higher development costs.

The configuration tool and application generator can range from simple manual editing of

Targeted environment can be wider than the PcVue application, and can covers the generation of:

- ✓ PLC I/O & program skeleton
- ✓ Project documentation
- ✓ CMMS configuration



STANDARD PcVue

The Vertical Layer approach is based on the standard version of PcVue. This software base serves to simplify and underpin maintenance of the business solution. PcVue guarantees forward compatibility of its products, so a Vertical Layer evolves naturally by benefitting from new functionalities introduced in standard PcVue.

configuration files to partly or fully automated generation of the variable database according to I/O lists and naming rules, or even to higher level, comprehensive data modeling tools.

Productivity improvement goals can range from a single-use tool that simplifies project configuration and speeds up late changes during commissioning, to a long-term, comprehensive enterprise management tool that ensures data modeling and consistency across multiple sites or recurring projects. This approach is beneficial for both project and business needs.

The tools used in the Vertical Layer depend on how complex the customer's needs are. For simple needs, you might just edit PcVue's standard configuration files. For more complex needs, you can partly or fully automate the creation of the variable database using I/O lists and naming rules. For the most complex needs, you use a comprehensive data modeling tool and application generator (wizard).

 Our PcVue SCADA, combined with your vertical-specific features, delivers a tailored and powerful solution for your unique needs, accelerating your time to market 

VERTICAL LAYER BENEFITS

BRANDING

PcVue allows customers to label their product and global vertical solution with their own brand and graphics. This means that while the underlying technology is provided by PcVue, the final product can be presented under the customer's own brand. This enhances brand visibility and allows for a more seamless integration with the customer's existing product portfolio.

LATEST TECHNOLOGIES

This solution ensures the delivery of a product that not only meets industry-specific needs but also incorporates the latest technologies. With these significant advantages, PcVue is an excellent choice for any SCADA/HMI project. We encourage you to explore and experience the benefits of our solution firsthand.

ROBUSTNESS

The vertical and object-oriented approaches of PcVue provide a robust foundation for SCADA software development.

REUSABILITY AND MODULARITY

The object-oriented approach promotes reusability and modularity, leading to more efficient code and easier maintenance.

EFFICIENCY

This solution eliminates the need for specific development from scratch, thereby saving significant time and resources.

INDUSTRY SPECIFIC

The vertical approach allows developers to leverage pre-existing, industry-specific functionalities, ensuring that the software is tailored to meet the unique needs of each industry.

CUSTOMIZABILITY

The addition of an adapted configuration layer allows for a high degree of customization to meet the specific needs of any project.

PROCESS STAGES

1st set of data = Input data:

- User inputs
- Enterprise asset repository
- Project inventory repository

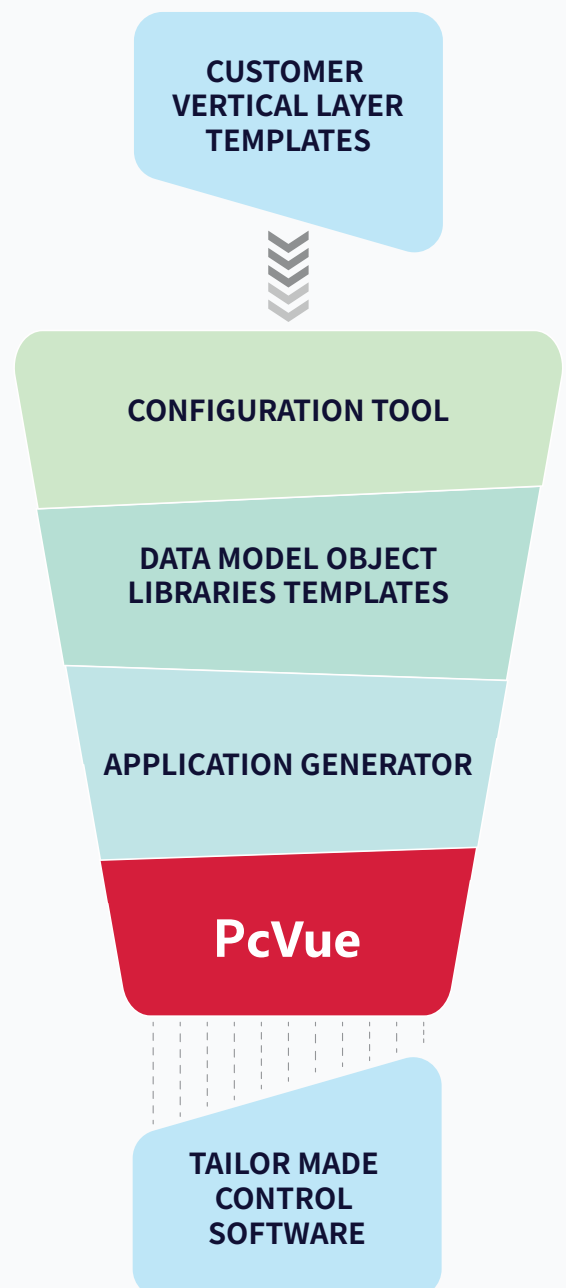
2nd set of data =

System Configuration storage

DATA MODEL OBJECT

A software component (usually in the form of a “Wizard”) configured specifically to meet the customer’s requirements. It can be done directly inside PcVue using Application Architect configuration tool. Its primary function is to simplify configuration of the application by presenting options in the customer’s own terminology. For example, selection of the equipment from a simple list of pre-defined templates with configurable parameters entered using a purpose designed dialog box.

Templates used by the configuration tool are stored in a database. This approach allows the templates to evolve without making any changes to the configuration tool.



VERTICAL BUSINESS LIBRARIES

These are sets of PcVue object libraries used by the application generator (graphical symbols, generic mimic templates and generic scripts). They are developed with PcVue's standard tools and can easily be enhanced and modified.

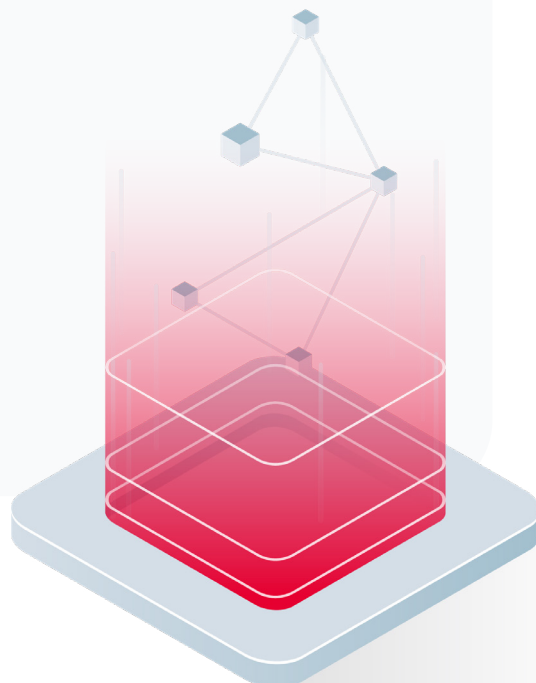
Any change to an object in the library is automatically reflected in its instances in the application.

APPLICATION GENERATOR

All of the configuration data—standard templates and user data— are stored in a database. The application generator scans these data and sets the parameters for PcVue's configuration interfaces (in XML for instance) so as to generate the application. All the application objects are generated in this way (Communication driver, variables, alarms and histories). For the mimics, the generator creates instances of symbols in an ordinary mimic. The graphical editing is simple and the results can be adjusted manually if needed.

PcVue's XML interface to the application generator also offers synchronization services. When changes have been made in the configurator to add, delete or modify elements, you can re- synchronize the application automatically.

The application remains modifiable via PcVue's standard configuration tools. However those changes and additions are preserved during further synchronization.



TAILORED SOLUTIONS FOR MACHINE BUILDERS AND EQUIPMENT MANUFACTURERS

This solution is the perfect answer for projects such as:

- ✔ **Machine builders** looking to standardize their HMI while maintaining flexibility and power
- ✔ **Equipment manufacturers** (like PLC/RTU) who prefer not to delve into HMI development but still want to offer their clients a complete “hardware & software” solution quickly





☞ Contact our representative to see how PcVue
can streamline your processes and enhance
your brand identity ☞



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ARC Informatique is ISO 9001,
ISO 14001 and 27001 certified