VACsuite - The perfect tool for automation engineers and software developers

Features

- **A highly efficient means of software development**
  - Intuitive programming environment with well-structured, component-oriented approach
  - Comfortable re-use of integrated and own components

- **Integrated standard features for your application**
  - Dictionary for multi-lingual user interface including Unicode
  - User administration
  - Alarm and message handling as well as tools for diagnostics and debugging

- **Large variety of ready-to-use modules for**
  - Process interfaces, e.g. Simatic S7, TwinCAT, Profibus, OPC
  - Data processing and data storage
  - Data interfaces to external systems
  - Process visualization and automated procedures

- **Multifunctional and individual**
  - Suitable for different industries and available in many application sizes
  - Individual thanks to integrated interfaces to various high-level programming languages

Benefits

- **Taylor-made solutions to fit into your infrastructure**
  - Open interfaces and simple to extend due to modular structure
  - Uncomplicated integration of existing systems
  - No limit for the number of used variables and function blocks

- **Reduce costly expenses for development time and resources**
  - Short training period
  - Proven and stable development platform with large variety of pre-defined standard features
  - Time-efficient due to re-use of components and modular system
  - Develop your application in teams
**VACsuite makes the difference**

**Functional range**

VACsuite is a powerful and easy-to-configure control and visualization tool for implementing PC-based automation solutions. Use cases range from simple process visualizations and PC-based equipment controls up to highly complex factory-wide automation systems. This object-oriented automation platform is a solid and future-proof solution for equipment and manufacturing automation in many different industries. VACsuite is therefore the preferred development platform of AIS Automation.

**Graphical software development**

VACsuite is state-of-the-art technology – not only due to its intuitive handling but also due to its outstanding flexibility and efficiency in use. The platform combines consistent development of your process control, of its visualization as well as of its process and data integration in one single graphical development tool. Connections between input and output of configurable objects serve as basis of the application structure.

**Flexible and modular system**

Additional to a vast pool of standardized objects for logic control operations, for process visualization and communication as well as for database and process integration, VACsuite offers a large variety of application programming interfaces. Integrate your individually designed C++ or .NET components into the system or even revert to JScript, VBScript or Script.NET. Moreover, VACsuite comes with an application programming interface which allows developing your personal VAC-objects in C++ or any other .NET programming language. This allows you to broaden the range of functions of your system and adapt the application perfectly to your needs.

Visualization of a sewage treatment system with VACsuite
**VACsuite controls, operates and monitors**

**Configure process controls via drag and drop**

VACsuite offers all necessary basic functions for controlling and operating automated sequences such as configurable state machines, production processes, multiplexers, transmitters, counters, formulae and arithmetical objects. These objects can easily be parameterized and combined with each other in the graphical project editor via drag and drop. Container objects are available for smooth integration of your high level language programs based on C++ or other .NET assemblies.

**Various interfaces for hardware communication**

Configurable hardware communication for interfaces compliant with industry standards forms an integral part of VACsuite. Choose between pre-defined objects for communication via OPC, TCP/IP or MSMQ and between interface objects for communication with Profibus, CAN-Bus, TwinCAT or Simatic S7. Even more protocols can be integrated into VACsuite by using the open programming interfaces.

**Acquisition, recording and analysis of process data**

Process data can be collected comfortably with the available process interface objects. Moreover, the data can be processed from various formats such as binary, XML, ASCII and other. Data use is not only limited to visualization and graphical processing but also allows storage in any kind of database or file format.

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**Simply build your GUI with VACsuite**

**Quick and simple GUI development via configurable visualization objects**

The VACsuite approach is simple and efficient – parallel to programming the application logic, the corresponding visualization and user interface are developed. This approach avoids unnecessary interfaces on the one hand and guarantees a consistent data concept on the other hand. Furthermore, it allows creating split and scalable systems with multiple operating stations.

In addition to the project editor for developing application logic, the VACsuite development platform offers a dialog editor for configuration of the graphical user interface. Once again the system stands out due to its open structure: Feel free to integrate your personal Windows Controls or ActiveX components.

**Integration of state-of-the-art technologies**

Windows Presentation Foundation (WPF) technology is fully integrated into VACsuite and allows creating highly complex, vector-based visualizations as well as 3D visualizations true to scale.

**Multi-lingual user interfaces**

Thanks to the comprehensive support of Unicode, visualization and user interfaces can be created in all languages. The language can easily be switched by using the integrated dictionary function in the running application. Nothing can stop you from going international with your application.
Sharing our know-how and experiences for your success

Integrated standard features as well as open interfaces make VAC suite an efficient development platform for all solutions offered by AIS Automation for automation of single tools and entire factories in different industries.

Our services

- Consulting and specification
- All-inclusive implementation of projects and software development based on VAC suite
- Training of customer’s experts to work independently with VAC suite
- Support, maintenance and 24/7 service

Benefit from our long-standing experience. We are additionally offering further VACsuite-based solutions for special applications.

Brief summary of AIS Automation Dresden GmbH

For more than 20 years AIS Automation Dresden GmbH has been supplying innovative software solutions for factory and production automation, equipment integration and equipment control. Our software solutions are deployed in Semiconductor, Photovoltaics, Automotive and other high-tech manufacturing industries.

150 experienced and committed engineers create, develop and install our software solutions for your production needs in close cooperation with you. AIS accompanies you over the entire life cycle and is available as a competent partner from specification, via implementation and installation, through to comprehensive customer service.

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