

Automation platform

## Unity Application Generator

Deliver your projects *faster*

and *re-use* your know-how



Merlin Gerin  
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*Building a New Electric World*

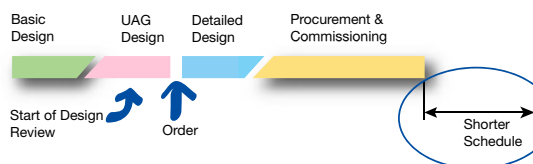
# Increase your return on investment

## Advanced design tool for automation solutions

### Conventional Project



### UAG Project



## Benefits

Faster project schedules mean reduced cost and risk

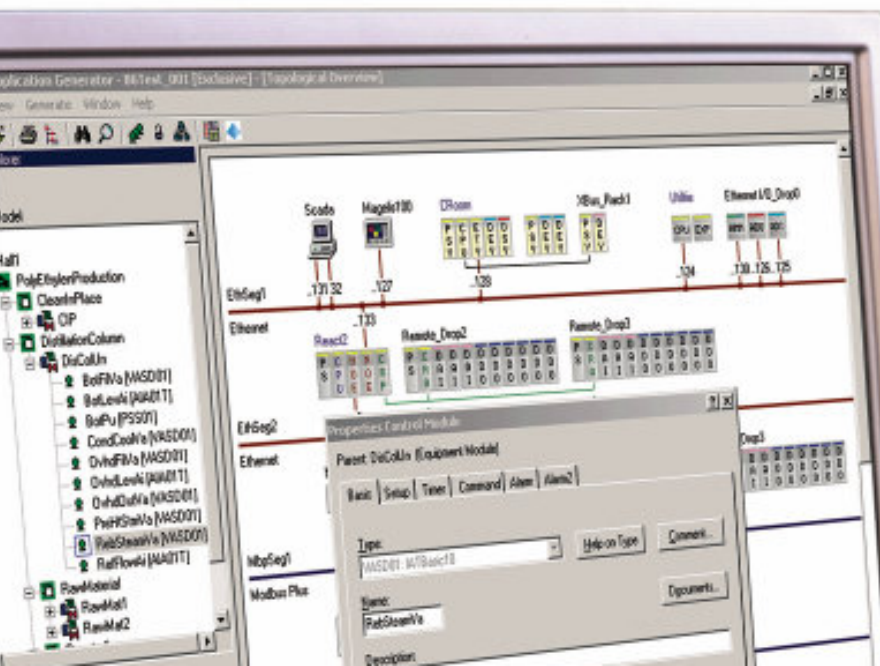
- Reduce schedules and cost by 20-35%
- Improve Quality and reduce risk
- Capture and re-use your best practices

## Applications

- End User in discrete, hybrid manufacturing, and infrastructure industries including Water, Metals, Mining and Minerals, Food & Beverage, Oil & Gas, Power, etc.
- System Integrators and OEMs

**UAG** can be combined with application specific libraries to provide full solutions for target segments.

*With **UAG** you can adopt a structured, modular design approach to achieve major reductions in development costs, greater application reliability and easier maintenance.*





## *Design your project*

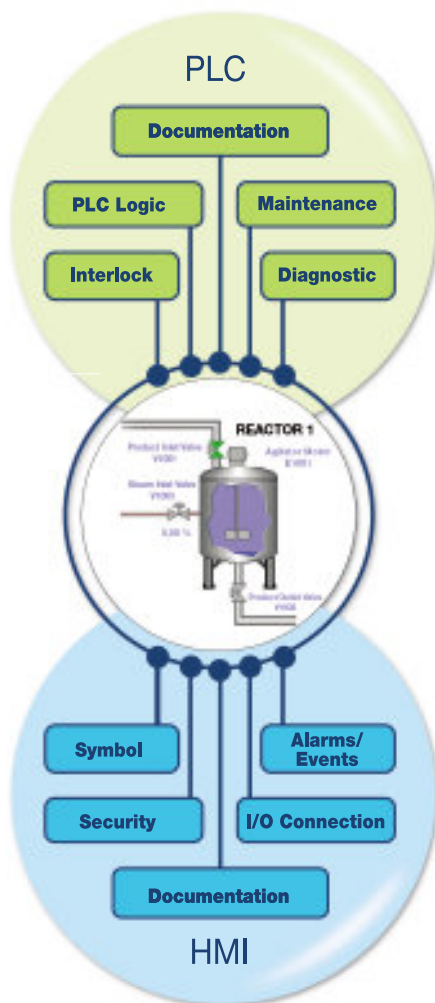
**... in the exact image of your process,  
using a 100 % functional approach**

### Your process expertise

UAG offers a flexible process methodology, capable of keeping pace with your installation's development and complying with ISA-88. UAG updates the control, monitoring and supervision data for your process, according to the centralized configuration.

It automatically handles:

- Consistency of the topological layout
- Management of all PLC resources
- Inter device communication
- Operating modes
- Process device configuration
- Process interlocks
- Consistency of the PLC and HMI applications



### Using your own standards

With UAG you can reuse your know-how and deploy your own standards, such as:

- UAG libraries
- Naming convention
- A selection of PLC platforms and modules.

UAG provides a uniform solution based on your standards, ready for validation to be carried out. During the design phase, the risk of error is kept to a minimum, thereby reducing your costs too.

### Total traceability

UAG tracks and documents every modification made. The version control system, supports compliance with FDA 21 CFR 11, ensures simple, straightforward validation.



# Hardware & Software support

## Combine UAG with “Best-in-Class” products and services to provide your automation solution

### Collaboration Automation Platform

UAG integrates “Best-in-Class” products from Schneider Electric and leading partners into an advanced automation platform based on standards including ISA-88, GAMP, IEC 61131-3, OPC, Modbus, TCP/IP:

- Quantum / Premium / M340 PLCs
- Leading HMI/SCADA systems including Vijeo Citect, Monitor Pro
- Modbus TCP / IP communication
- OFS / OPC

### Unity Pro Software

Unity Pro is the common programming, debugging and operating software for the Modicon Premium and Modicon Quantum PLC ranges. With IEC 61131-3 languages and all the debugging and diagnostics you’ll need. Unity Pro has been designed with the aim of boosting your development productivity and ensuring easy maintenance

### Vijeo Citect

Pilot your automation process with performance! For users who are looking for superior performance and ease of configuration in their HMI/SCADA, UAG provides optimal support for Vijeo Citect. Vijeo Citect delivers superior performance by utilizing the power of multi-CPU or hyper-threaded machines. At startup, Vijeo Citect is automatically able to create separate components across multiple CPUs, resulting in improved performance and stability. Vijeo Citect also provides multi-project Find & Replace and integrated XML web service.

### Support for other leading SCADA Systems

UAG also provides a generic support for other HMI/SCADA software. HMI/SCADA systems that have been interfaced include:

- Wonderware ArchestrA
- iFIX
- ARC Informatique/PCVue

### Collaboration with our business partners

*Schneider Electric’s solution approach to meet our customer’s business needs takes advantage of complimentary product providers and approved Systems Integrators to bring innovation and the highest level of local service. By utilizing “Best-In-Class” open technologies and finding the right complementary product and service offers for implementation we are able to provide customers with solutions they desire in today’s world of increasingly competitive globalization.*

### Collaborative Automation Partner Program



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The Schneider Electric Collaborative Automation Partner Program provides numerous options to extend our platforms with specialist offers in hardware – including special I/O modules, networking - including wireless technology – and software. Each of our partners is selected to bring a particular complimentary value to our offer in order to complete a solution need.

Further details can be found at our Collaborative Automation website: [www.CollaborativeAutomation.com](http://www.CollaborativeAutomation.com)

### Schneider Electric Alliance

Schneider Electric delivers automation products through a strong network of intermediary channel partners including distributors, panel builders, and System Integrators. We think this is the best way to offer to end users top levels of expertise, reactivity and flexibility.

Schneider Electric Alliance is totally aligned with this partnership approach with an international network of over 800 approved independent System Integrators who, above all else, aim to meet all of end users’ requirements using the best of what technology has to offer and with a strong sense of service excellence.

Further details can be found at our Schneider Electric Alliance website: [www.alliance.schneider-electric.com](http://www.alliance.schneider-electric.com)





## What UAG does for you

### Unity Application Generator

is an advanced design and generation software tool that integrates multiple PLCs and HMI/SCADA systems to provide an automation solution similar to a Distributed Control System.

### Smart Control Devices

UAG has the distinctive feature of using versatile SCoDs (**S**mart **C**ontrol **D**evice**s**). These modules integrate and associate all your process monitoring, control and supervision system data, based on a simple, user-friendly, application-specific approach. Using your PLC function blocks and HMI faceplates, you can create reusable UAG libraries for all your UAG applications.

### Application architecture

**Unity Application Generator (UAG)** provides a single database environment that is able to create and manage application and configuration data for PLC based automation solutions and the associated HMI/SCADA systems.

Using an approach based upon reusable objects (e.g. PID loops, motor and valve control), UAG makes use of the ISA-88 methodology and user defined standards, thus ensuring consistency in accordance with planned standards and specifications.

### Innovative Software

Structured Project Design - bridge from the process engineer to the control/ automation designer (from the P&ID to the automation system). Capture and re-use of your best practices within application specific libraries that reduce the dependency on experts, enable standardization and increase software robustness. Single database entry avoids duplicate effort and resulting errors. Automatic application generation including the automatic configuration of networks in multi device systems increases efficiency, improves software quality, speeds commissioning while simultaneously reducing project risk. Integrated change tracking and automatic documentation generation reduces engineering effort and enables system validation.

### Generate your applications automatically

With the process design information, UAG generates the PLC application including:

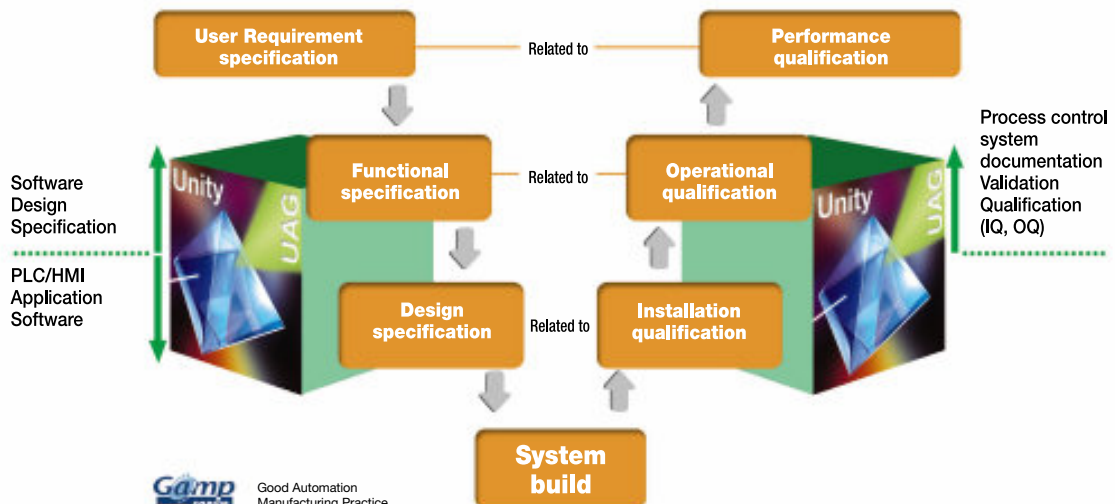
- Hardware configuration
- Application structure
- Communication configuration
- Control Devices and corresponding interlocks...

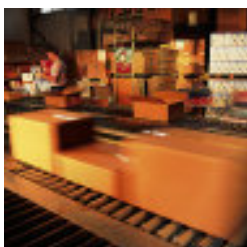
As for you supervisory applications, UAG generates:

- The tag database including properties like:
  - Alarms
  - Archiving
  - Access rights
- The pictures with control mimics
- The communication driver configuration

The PLC and HMI applications remain synchronized, acting like a single database

#### > Implementing validation procedures





## Available Worldwide

■ Permanent availability, worldwide. With more than 5000 sales outlets in 130 countries, you will always find a complete range of products that meets your needs and conforms to local standards.

■ Technical support wherever you are. Schneider Electric provides technical support around the world, with experts at your service to help you achieve the optimum solution for applications.



... and many other major companies have chosen UAG Software...



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