ARC Informatique is a SCADA software editor, leader on the market for more than 30 years.

ARC Informatique is the PcVue Solutions SCADA editor, offering software, hardware and application support as a global service to several markets, especially for energy.

The open scalable software platform PcVue Solutions delivers full control and connectivity, implementing a large range of built-in drivers such as Modbus TCP/IP, S7IP, ROCKWELL IP, OPC, an intuitive interface, an alarms and events logging system and reporting capabilities.

Major players in the food & beverage, pharmaceutical, oil & gas production and manufacturing have been using PcVue Solutions to monitor and control their installations. Both ISO 9001 and ISO 14001 certified, the company is establishing an international presence through direct sales offices in the US, Europe, Asia and Latin America and relies on its partner network to guarantee exceptional service, domain expertise and product satisfaction.

PcVue Solutions, your independent global SCADA provider

A global player with a local approach

12 strategic bases
50+ VAR worldwide
200+ local SI partners

A customer-oriented approach

Listen to and answer our customers
Develop and adapt our solutions via R&D
Responsive technical support

Continuous quality improvement

ISO 9001 & ISO 14001 certified
Microsoft certified partner
OPC foundation member

To meet the constraints of modern industries, PcVueSolutions, a suite of softwares independent from constructors and providers, brings more than 30 years of experience and innovation for industry market.

✓ Monitoring and control for any kind of industrial installations for the production or the facilities
✓ Connecting heterogeneous devices and standardizing operation modes
✓ Securely ensuring the continuity of the production
✓ Optimizing the operations and maintenance of the production tools
✓ Ensuring the traceability of production data
✓ Reducing cost of system updates (development, operator training)
✓ Benefit from sustainable solutions which can be autonomously managed by final users

With a rich HMI, connectivity to any kind of devices, full reporting capabilities, and innovative tools for maintenance PcVueSolutions offers a unique platform for industries.

✓ Built-in support of the standard drivers of automation and control devices
✓ Optimized management of alarms, trends and events for the operation and the maintenance
✓ Ergonomic and user-friendly graphical interface, adaptable to all types of processes
✓ Single development platform including an intuitive configuration environment
✓ Interoperability ensured with the global system of your company : ERP, CMMS, quality, IT
✓ Flexibility and scalability : from a single station to client-server architecture
✓ Built-in support of the 21cfr11 standard
✓ Contextual mobility solutions to facilitate the work of the operator
Why choose PcVue Solutions?

PcVue is a fully-featured product that represents the latest advances in software for monitoring and control industrial processes. Flagship product of the PcVue Solutions offer, PcVue is developed under the recommendations of integrators, OEM, end user and with the experience of ARC Informatique in the domain of industrial automation. PcVue is an open and flexible platform which respects the constraints of reliability and performance of the industry, integrating the latest features of Microsoft Windows. PcVue is easily scalable from a local station to a client/server architecture.

With an user-friendly interface and a modern ergonomy based on an “object” approach, PcVue facilitates the work of both integrator and operator. PcVue Solutions also offers solutions for on-call and reports management, as well as a hardware offer to cover the needs in IoT infrastructure. The network aspects are covered by our solutions of cybersecurity and network diagnosis.

PcVue Solutions at the heart of the industry 4.0

PcVue Solutions innovates for the new industrial era

The constant and rapid changing of technology continuously brings new ways that complement current methods and change the practices used for monitoring installations.

The advent of mobile applications such as proactive transmission of information depending on users, dynamic and contextual information display (and the disappearance of static navigation menus) are some examples.

In an increasingly communicating universe, PcVue Solutions innovates with solutions that facilitate exchanges between people, connected objects and the SCADA system by taking advantage of the latest mobile and geolocation technologies (NFC, Beacons, QR Codes, GPS).

PcVue Solutions is therefore totally part of the industry 4.0, offering innovative mobile solutions of geolocation, notification, and navigation on smartphones or tablets. A user can be informed in real time, depending on his/her position and level of responsibility, of actions he/she may realize from his/her smartphone.

He/she can be also notified of any alarm and perform a quick diagnosis of the failure to decide the most relevant action: sending commands to the device, release...

At the same time, to ensure safety, the control room is able to know the position (inside or outside) of the mobile devices.

These contextual mobility solutions allow a faster analysis of the situation, as well as immediate and efficient actions if necessary, improving the availability and the security of the installations.

A complete solution for supervizing your industrial process

The mobile app PcVue Solutions automatically adjusts the display of the informations according to the credentials of the user and to his/her location.
**Supervise your installations efficiently**

Monitoring and control of your devices anywhere, anytime

**Visualization and Commands**
- Customizable, modern and intuitive graphical interface
- Thousands of objects ready to use
- Real-time visualization of the installation's status
- Sending commands to the devices
- Remote control on smartphone or tablet

**On-Call Management**
- On-Call software ALERT
- Notification of the operators (phone, sms, mail)
- Management of the operation team
- Transmission of the acknowledgment

**Ensure the continuity of the production while mastering operation and maintenance costs**

Preventive and operational maintenance of the installations

**Advanced Features of Data Visualization**
- Displaying of the data by zone, devices, use...
- Real-time and archived data trends
- Compared trends
- Displaying thresholds
- Export of trend data towards Excel

**Nework Infrastructure Monitoring**
- IntraVue for the network mapping and diagnosis
- SENTRYO ICS Cybervision for the detection of anomaly and the network analysis
- A complete MOXA hardware offer: Switches, Firewall/secured Industrial VPNs, routers...

**Alarm & Events Management**
- Advanced real-time alarm visualization
- Notifications of alarm by email, sms or mobile app
- On-call module for an efficient management of maintenance and operation teams

**Improve your productivity and your quality of service**

Traceability, performance monitoring (KPI)

**Processing the Production Data**
- Archiving the data in SQL Server
- Design and consolidation of productivity indicators (TPMTRS...) according to the NF E60-182 standards
- Edition and generation of dynamic production reports in several formats, which can be accessed online with Dream Report software
- Monitoring the production batches and the receipts
- Connexion between the different information systems of the firm (ERP, CMMS, Quality, IT...)

**Network Infrastructure Monitoring**
- IntraVue for the network mapping and diagnosis
- SENTRYO ICS Cybervision for the detection of anomaly and the network analysis
- A complete MOXA hardware offer: Switches, Firewall/secure Industrial VPNs, routers...
PcVue Solutions facilitates the work of the SI

Optimizing the development costs with a platform, easy to implement and to maintain

An object-oriented approach to minimize the risks of error, to reduce the development costs and to simplify the applicative maintenance

Adaptable and flexible deployment, from the local station to the multi-site architecture

Interoperability, from the production to the several information systems of the company
Innovation for industry

The contextual and mobile approach for industrial supervision

PcVue Solutions Mobile

Since the arrival of supervisory systems and controls for industry all monitoring and control features were generally achieved from a central control station. The use of smartphones and other mobile devices in the professional world naturally leads to a rethink of the interaction of workers with their workstation and associated practices.

The way users interact with their smartphones is more readily through geographical representations and icons than a browser and menus. The historical approach on how to control, diagnose, maintain an industrial installation is now completely reconsidered.

A mobile user does not wish to navigate a graphically rich supervision application. He/She wants, above all, to be notified of events that concern him and have information relevant to the tasks he has to perform according to his location.

With the availability of geo-tags, we are in fact in the middle of a world increasingly communicating with connected objects (IoT) allowing the contextual monitoring offered by PcVue Solutions Mobile. The Geo-tag technology is based on Bluetooth Low Energy (BLE) Beacons, Near Field Communication (NFC) or QR-Codes. These technologies, as well as the Global Position System (GPS), are now natively integrated standards on the latest generation of smartphones.

PcVue Solutions mobile app takes advantage of Geo-tags to bring information to mobile users...

The geolocation mobile app SnapVue allows a user, depending on his/her profile, to automatically obtain the contextual information related to his/her area of responsibility (maintenance, operation, etc.) in the zone where he/she is and to have access to the actions he/she can undertake, directly from his mobile. He/She will be able to control the set points, analyze trends, consult a data sheet or exchange instant messages (text, image, video, audio) with his/her team.

The notification mobile app TouchVue allows to get notified in case of an alarm and to quickly react sending a command and acknowledging the alarm.

In addition to the navigation from a web browser with WebVue, these solutions which can be setup in existing systems allow operators to be both more responsive and efficient.

Few case of use

Commissioning

SCENARIO
✓ The Project is in commissioning stage and the automation engineer is testing the system
✓ Engineer enters a Bluetooth LE Beacon area or scans NFC or a QR code
✓ Engineer immediately accesses the SCADA mimic related to the location and can test the system alone by forcing local parameters on device. He/She can check the physical device while checking the SCADA

BENEFITS
✓ Speed up commissioning tasks
✓ An engineer is able to perform commissioning task autonomously
✓ Commissioning both devices and SCADA system at the same time
✓ All Industries, Infrastructures and BMS applications where automation system is being installed

Maintenance operations

SCENARIO
✓ A Maintenance staff is performing maintenance task on device
✓ They are facing a machine or device that has no HMI or operator interface
✓ They scan the QR code or touch the NFC tag to visualize status and parameters
✓ They then set the device to maintenance mode masking alarms, then enter their maintenance actions & reports
✓ They can consult Manuals or devices datasheets as needed

BENEFITS
✓ Provides a mobile interface to verify status live of connected equipment.
✓ Improves safety as maintenance staff has full live information and data sheet/manual available
✓ Can tune parameters according to overall system and visual reality on the spot
✓ Intervention summary done on the spot and immediately recorded on central system

On-Call Management

SCENARIO
✓ An operator works on a site
✓ An alarm occurs on a production device of the plant
✓ The operator receives a notification on his smartphone and can access the alarm’s details.
✓ He/She can immediately perform a first diagnosis and send a command to the device from his/her smartphone if necessary.
✓ He/She can also acknowledge the alarm, its status being updated in real-time on the central station

BENEFITS
✓ Allows immediate diagnosis and action, without the need to go on the location of the alarm
✓ Increases the reactivity of the operators over the apparition of an alarm wherever they are
✓ An simple, economic and efficient on-call management solution
Success Story

DUNN-EDWARDS PAINT

Monitoring and control of paint production system

Since 1925, Dunn-Edwards Corporation has been the leading manufacturer and supplier of architectural and industrial coatings in the Southwest of the USA, providing a complete line of paints and painting supplies to professionals and quality-conscious consumers.

Dunn-Edwards centralized all operations into one large, state of the art manufacturing facility residing in Phoenix, AZ, which is fully automated to gain all the advantages inherent with automation. Centris Technologies, known for its industrial control and automation expertise, developed and integrated all the real-time process control and SCADA development on the plant floor.

PcVue allows monitoring and control of the paint manufacturing process as well as the maintenance operation and the product quality process.

PcVue interfaces an enterprise resource planning system (ERP) from SAP - sharing some 55,000 I/O points. SAP has embedded a Pico module for I/O connectivity which is communicating to PcVue's SCADA through OPC.

Operators access both real-time and historical production data. They can visualize trends, alarms list or reports, which help them to take the best decision for the batches.

PcVue allows monitoring and control of the paint manufacturing process as well as the maintenance operation and the product quality process.

Technical highlights

- 2 redundant acquisition servers
- 12 PcVue client stations
- Web clients
- 10 Centris Technologies Advanced Process Controllers (APCs)
- 3 ISaGRAF devices fully compliant with both IEC 61499 and IEC 61131 industrial control standards
- 75,000 data points
- SAP

Operators manage anywhere between 10 – 20 batches per shift within PcVue.

The system architecture consists of 2 PcVue servers set up in a redundant configuration and connected to 10 Centris Technologies Advanced Process Controllers (APCs), each running ISaGRAF over TCP/IP. The servers connect 12 PcVue client stations located in key operator locations.

Using PcVue Solutions, Dunn-Edwards expects to have a deep insight into the batch processes and facilitated information-sharing among the production and supervisory staff. This will allow a better monitoring of production in the operator appropriate contexts.

Operators access both real-time and historical production data. They can visualize trends, alarms list or reports, which help them to take the best decision for the batches.

All the system can be accessed remotely using a standard web browser across the intranet or internet network.

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NEEDS

- Monitor and control all processes with remote access
- Scalability for future expansion
- Integration with the ERP

BENEFITS

- Better productivity
- High reliability
- More efficiency for operation and maintenance
References

Some of our references

Kronenbourg / Obernai - France
Controlling the brewing processes
DESCRIPTION
PcVue manages the brewing of the vessels, as well as a part of the air-conditioning system, the heating and the filtering of the site
TECHNICAL ENVIRONMENT
Redundant PcVue SCADA posts - 15000 tags - Schneider PLC’s

Dow-corning / Saint Laurent du pont - France
Monitoring processes
DESCRIPTION
The Dow-Corning company specializes in the manufacturing of silicone, has chosen PcVue to ensure among other weekly production schedule, weekly follow-up (stops machines, cleaning, breakdowns...), batch records, as well as the listing of the completed batch, general balance sheets, and finally historical flaws
TECHNICAL ENVIRONMENT
30 000 tags, 2 redundant PcVue Servers, 6 PcVue client stations in the control room, and local stations on each production line

Air France industry / Orly - France
Project TPM (Total Productive Maintenance) for technical installations
DESCRIPTION
Twelve very different facilities are monitored and controled: a four hydrogen, benches pumps, the transstockers robotic, machine tools, water treatment... PcVue gathered the following data: States of devices, running time counters or number of cycles, measurements (temperature, pressure, current...), Alerts and alarms-oriented maintenance
TECHNICAL ENVIRONMENT
1 PcVue Server station - 3 PcVue Client stations - WebVue access

Optical glass manufacturer / World
Monitoring the production and treatment of molded glass
DESCRIPTION
PcVue is at the heart of the processes of manufacturing and treatment of molded optical glasses. Centralized monitoring and real-time data processing of different machines (alarms, trends), Archiving the totality of the production configuring data, Connection with a CMMS software. This solution is being developed in every production and laboratory site throughout the world.
Benefits:
Better exploitation activity
Rationalization of the machine management and significant productivity gain
TECHNICAL ENVIRONMENT
Architecture Server/Client with several dozens of Mobile Wif client station in the workshops - Several protocols of molding machines integrated directly into Pcvue - SQL Archiving - 10 000 tags

DIOR / Orleans - France
Traceability application on the DIOR Gold Workshop
DESCRIPTION
The Dior Orleans cosmetic workshop is made up of three manufacturing positions, each composed of two tanks, ensuring the development of the product. PcVue enables the following features: strict management of users, acquisition rights and process real-time data processing, launch from the HMI of manufacturing, follow-up orders and control of the manufacturing of all tanks.
TECHNICAL ENVIRONMENT
PcVue - Schneider PLC’s - Ethernet Modbus

Galvano / Canada
Command Control of an electrogalvanizing line
DESCRIPTION
Galvano is one of the biggest firm regarding the coating of mechanical pieces. PcVue monitors the automatized galvanization system of more than 150 tons of materials per day and ensures the interface with the CMMS for the automatic treatment of the range and orders of fabrication, as well as the monitoring of conveyors and baskets
TECHNICAL ENVIRONMENT
1 PcVue Server - 3 PcVue Clients - 1 WebVue access

Special Metals / France
Monitoring the production of raw materials for the chemical industry
DESCRIPTION
Special Metals produced especially from sodium, chemical derivatives of vanadium and alkaline, chlorine and potassium. Their products are used in developing industrial sectors; renewables energies, electronics, healthcare and hygiene, automotive and buildings, textile and paper... PcVue is used to monitor several batches and technical workshops (chlorine detection, liquid chlorine, vanadium chloride, vanadium workshop, lithium process, treatment of wastes...)
TECHNICAL ENVIRONMENT
15 PcVue posts - 10 000 tags - 10 WebVue client accesses - MOXA Switches

Pieces manufacturer for the Military / France
Performance indicator system for virtual machines following the NF-E60-182 standard
DESCRIPTION
Several independent production chains are composed of machine-centers monitored by PcVue. The status of each machine are centrally collected and archived on a productivity post. This post is used to elaborate normalized productivity indicator and to generate and publish reports concerning the production chains. The reports furnish chronograms displaying the status of the machines as well as the statistic indicators following the SE-E60-182 standard, and the TRS
TECHNICAL ENVIRONMENT
PcVue Machine posts - central PcVue posts for the archiving and reports
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Global SCADA Provider

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