PcVue *Solutions* ®

Your Independent Global **SCADA** Provider

NEWS RELEASE

PcVue 11.2

BUILDING AUTOMATION, SUBSTATION AUTOMATION, ADVANCED CONFIGURATION ENVIRONMENT, DATA ACQUISITION & DATA PROCESSING, HMI, DEPLOYMENT, IT & CYBERSECURITY

www.pcvuesolutions.com

ARC Informatique has been developing and marketing industrial software for over 30 years.

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

The open, scalable, software platform of PcVue Solutions delivers full control and connectivity, implementing a large variety of built-in drivers including IEC 61850 certified by KEMA (now DNV-GL), BACnet BTL listed, LonWorks, KNX, OPC and a rich graphical interface. PcVueSolutions offers an advanced alarms and events logging system as well as reporting capabilities.

Thousands of sites are monitored and controlled by PcVue Solutions in several vertical markets such as BMS, Energy, Water, Transportation, Infrastructures, Oil & Gaz, Industry.

Both ISO 9001 and ISO 14001 certified, the company maintains 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.

PcVue Solutions, your independent global SCADA provider

A global player with a local approach

15 strategic bases

50+ VAR worldwide

200+ local SI partners
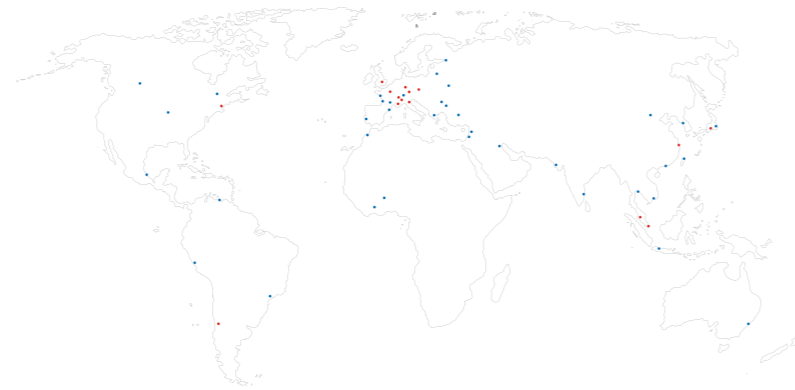
A customer-oriented approach

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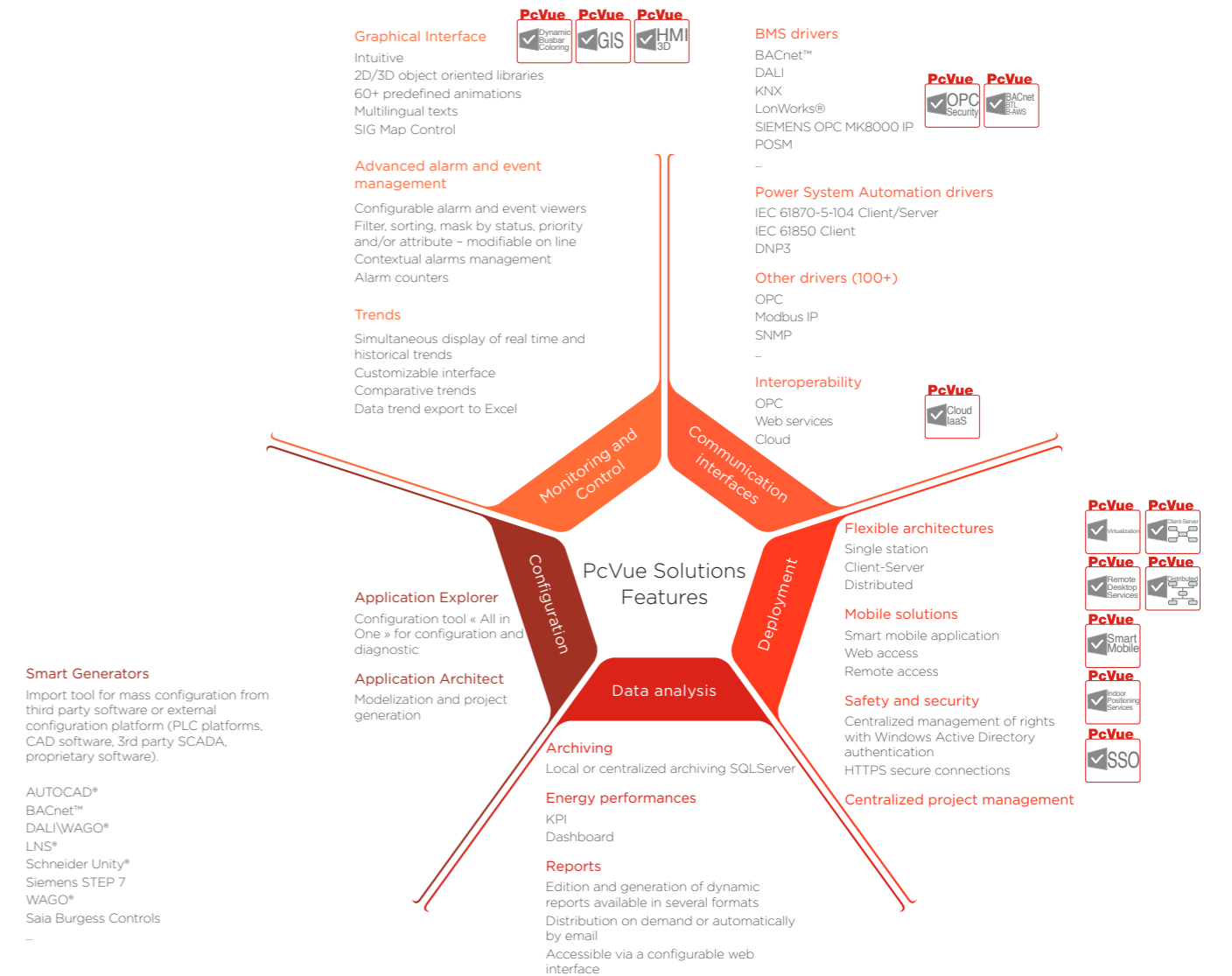
Continuous quality improvement

ISO 9001 & ISO 14001 certified
Microsoft certified partner
OPC foundation member
Member of the BACNet™ Interest Group
LonMark® International member
IEC 61850 DNV-GL Certified
BACNet™ Advanced Workstation BTL Listed

About PcVue Solutions offer

PcVue is a **full-featured product** that represents the latest advances in SCADA software for multi-station monitoring and control. The new PcVue range has been designed using recommendations from integrators, OEMs and end-users, and based on ARC Informatique's considerable experience in the industrial automation sector. PcVue features modern ergonomics and tools based on templates and instances to minimize the time for application development, including the latest tools from Microsoft user interface standards and the security features of Windows® platforms.

PcVue provides a flexible solution for supervising industrial processes, utilities and infrastructures. It meets industrial standards of reliability and performance while maintaining the user-friendliness of an office application. It spans requirements from single-user applications to high availability distributed systems.

Graphical Interface
Intuitive
2D/3D object oriented libraries
60+ predefined animations
Multilingual texts
SIG Map Control

Advanced alarm and event management
Configurable alarm and event viewers
Filter, sorting, mask by status, priority and/or attribute – modifiable on line
Contextual alarms management
Alarm counters

Trends
Simultaneous display of real time and historical trends
Customizable interface
Comparative trends
Data trend export to Excel

BMS drivers
BACnet™
DALI
KNX
LonWorks®
SIEMENS OPC MK8000 IP
POSM
–

Power System Automation drivers
IEC 61870-5-104 Client/Server
IEC 61850 Client
DNP3

Other drivers (100+)
OPC
Modbus IP
SNMP
–

Interoperability
OPC
Web services
Cloud

Flexible architectures
Single station
Client-Server
Distributed

Mobile solutions
Smart mobile application
Web access
Remote access

Safety and security
Centralized management of rights with Windows Active Directory authentication
HTTPS secure connections

Centralized project management

Application Explorer
Configuration tool « All in One » for configuration and diagnostic

Application Architect
Modelization and project generation

Smart Generators
Import tool for mass configuration from third party software or external configuration platform (PLC platforms, CAD software, 3rd party SCADA, proprietary software).

AUTOCAD®
BACnet™
DALI\WAGO®
LNS®
Schneider Unity®
Siemens STEP 7
WAGO®
Saia Burgess Controls
–

Archiving
Local or centralized archiving SQLServer

Energy performances
KPI
Dashboard

Reports
Edition and generation of dynamic reports available in several formats
Distribution on demand or automatically by email
Accessible via a configurable web interface

PcVue Solutions Features

Monitoring and Control
Communication Interfaces
Configuration
Deployment
Data analysis

Benefits

✓ A modular offer for monitoring and controlling all kinds of processes, affording great reusability without further investment

✓ Save development time and costs with a flexible and scalable platform that adapt to change

✓ Enhance the user experience while minimizing the training process

✓ Leverage the cutting-edge technologies

✓ A high level backward compatibility version to later ones ensuring lasting solutions

What's new in PcVue 11.2?

A version that reinforces interoperability, quality and security

Systems are more and more complex and are required to connect heterogeneous environments while ensuring high performance and security levels.

PcVue 11.2 consolidates the integration of standards and components for an even better interoperability and quality.

PcVue 11.2 implements the KNX driver for Building Automation and is validated and listed by the BTL (BACnet Testing Laboratories) for the most comprehensive BACnet profile : B-AWS. Substation automation drivers have been improved to reach a world class level of efficiently, proven by customers success stories.

A version that takes advantage of the latest Microsoft platforms Windows 10 and Windows Server 2012 R2 and meets the IT deployment constraints.

PcVue 11.2 features an improved protection of server components and implements an SMNP Agent.

PcVue 11.2 implements solid security features at all levels from design to delivery, as part of our quality process.

A new version that introduces new and improved features while still maintaining backward compatibility ensuring the sustainability of our customers investments

PcVue 11.2 At a glance

Enhancements for a platform more efficient while ensuring more security

Building Automation
BACnet Advanced Workstation BTL Listed
KNX driver
COMMEND SA ICX driver
GEZE library

Substation Automation
IEC 60870-5-104 Outstation

Application Explorer
Changes & Newly Supported Items

Application Architect
More communication items
Ergonomic optimization

Vertical markets

Advanced Configuration Environment

Deployment IT & Cybersecurity

PcVue 11.2

HMI

Data acquisition & Data treatment

New Supported Platforms
Windows 10
Windows Server 2012 & 2012 R2
SQL Server 2014

Improved protection of server components
Deploy PcVue servers as Windows services & PcVue clients as desktop applications

Launch & connect diagnostic tools
Comprehensive client tools for configuration & diagnostic
From a local user session or a remote desktop session

Secured deliverables
Installation package signature
Binary files signature

SNMP Agent

SCADA Basic enhancement

DATA Export
New output export format

New Driver for industry
EtherNet/IP™ driver (11.2 Update)

HMI enhancements
Historical mode for the grid control
Tooltip on all animations
Highlight of control zones
Virtual keyboard language layout switch at runtime

New libraries to cover the WATER vertical market
Mixers, Probes, Water

New components for MOXA library
New switches : IKS-6728A, IHS-G6524A, IKS-G6824A

PcVue 11.2
Building Automation

PCVUE 11.2 CONSOLIDATES THE INTEGRATION OF STANDARDS AND COMPONENTS FOR BUILDING AUTOMATION

✓ Validated and listed by the BTL (BACnet Test Laboratories) for the most comprehensive BACnet profile B-AWS
✓ Supports the KNX protocol
✓ Supports the COMMEND SA ICX protocol
✓ Comes with a new added library for Building Automation

A STRONGER POSITION IN THE SMART BUILDING

✓ Member of the SBA (Smart Building Alliance)
✓ Member of the IP500 Alliance
✓ Member of the LonMark association
✓ Member of several BACnet groups

Built-in BTL listed BACnet protocol

A quality certified protocol embedded into your supervision

PcVue Solutions reinforces its position in the building automation introducing PcVue 11.2 as a BACnet Advanced Workstation (B-AWS) certified and listed by the BACnet Testing Laboratories.

PcVue 11.2 offers the highest level of integration with the BACnet protocol, including the support of all services (trends,alarms,schedules,...) and also specific advanced features to enhance the developers' experience.

A powerful interoperable standard for your Building Automation System

✓ Versatile support for BACnet automation objects and for all services offered by the standard (BIBBs)
✓ Data Sharing
✓ Network & Device management
✓ Alarm & Event notification
✓ Trending and event logging
✓ Scheduling

A full integration into PcVue

✓ Helpers for diagnostic and commissioning
✓ Devices and objects discovery
✓ A comprehensive mapping editor (offline/online, EDE files)
✓ Advanced features: COV/Polling, segmentation and supported services (FDT, BBMD)

New libraries for building

Supervise your automated systems for buildings

✓ PcVue comes with a library for GEZE systems, developers and manufacturers of construction systems for door, window and safety technology
✓ Contains pre-defined templates, a set of icons and animated symbols
✓ Allows to quickly create an interface for those components

KNX driver

Connect your building to PcVue with the KNX standard

An open standard to supervise your buildings

✓ Known open standard, vendor neutral
✓ Suitable for small and medium size buildings, existing or new
✓ Smart protocol with automatic alert mechanisms and a common configuration tool (ETS)

COMMEND SA ICX driver

A new driver to cover your intercom needs!

Connect seamlessly the intercom system with PcVue

✓ Support for the COMMEND Intercom Exchange GE800 using TCP/IP

Intercom monitoring and control

✓ Large range of ICX messages supported

PcVue 11.2 Substation Automation

PcVue Solutions provides a world-class platform for power systems, including built-in drivers for the Energy Management and the smart grid interoperability such as IEC 61850, IEC 61400-25, IEC 60870-5-104, DNP3.

PcVue 11.2 introduces the most advanced features to meet the energy standards of reliability and performance

IEC 60870-5-104 enhancements

PcVue as a substation gateway

✓ IEC 60870-5-104 Outstation

✓ PcVue is now able to expose its variables via a built-in IEC 104 server channel

✓ PcVue can be used as an interface to control center

✓ Eliminates the use of an OPC server, which has the disadvantage of not making available the features specific to the IEC 104

DNP3 optimisations

Designed for reliability

✓ Advanced timestamp management
✓ Archives optimization
✓ Support for devices redundancy

IEC 60870-5-104

✓ Direct execute (DE) and Select before operate (SBO)
✓ Double points
✓ Quality descriptors and time tagged values
✓ Redundancy

IEC 61850 & IEC 61400-25

✓ 8-1 client driver
✓ Direct execute (DE,DEw) and Select before operate (SBo, SBow)
✓ Pre-defined and extensible data class catalog
✓ Buffered and unbuffered report control blocks (BRCB, URCB)
✓ DNV-GL Certified

DNP3

✓ Level 2+ implementation
✓ Support for both polling and spontaneous messages
✓ Comprehensive handling of objects groups & variations
✓ Control relay and analog output block (CRoB, AOB)
✓ Redundancy

PcVue 11.2 Deployment, IT &Cybersecurity

Supported platforms

Take advantage of the latest environments

Windows 10

Server stations
✓ Data acquisition & Historical Servers

✓ Web Server

✓ Remote Desktop Services

• Windows Server® 2008, 2008 R2, 2012 & 2012 R2

• Microsoft® SQL Server™ 2008, 2008 R2, 2012, 2014

Client stations
✓ Windows®

7

8

8.1

10

Virtual Environments
✓ VMware®

✓ Hyper-V™

Production & Installation

✓ Signed installation package

Confidence in our deliverable

✓ Authentication & Integrity

The package your are installing was created by ARC Informatique

The package was not tampered since its production

✓ Download options

.zip - Single compressed archive

.iso file

✓ Signed binary files

Cybersecurity at every level

✓ Leverage IT-style deployment

• Improved protection of server components

- PcVue servers as Windows services

- PcVue clients as desktop applications

✓ Launch & connect diagnostic tools

• Comprehensive client tools for configuration & diagnostic

• From a local user session or a remote desktop session

✓ Secured deliverables

• Installation package signature

• Binary files signature

SNMP

Meet the IT constraints with the new SNMP Agent for PcVue

Allows a third party system to monitor various operating parameters of PcVue

✓ SNMP Agent is available in PcVue

✓ PcVue is able to expose any variable via SNMP

✓ No specific development

Mobility
Connected to your process by any means

✓ **Improve real-time decision making**

Web HMI

Remote Access – HTML5 compatible

Mobile App

✓ **Reduce the maintenance cost**

Ready to Go solution with no-pre-installation required on client side

✓ **Maintain a high level of security**

Integrated Microsoft Windows® authentication: Active Directory

Support of secure HTTP (HTTPS)

PcVue 11.2 Enhancements for even more efficiency

## Advanced Configuration Environment

New features

Application Explorer

✓ New entry - General

- Domains,

- Natures,

- Labels for Command levels, Browsing levels, Alarm Ack levels, Alarm Mask levels and Alarm Maintenance levels,

- Associated labels

✓ Associated labels configuration

- Support for a new type of associated labels for enumerated values

- Name and content length extended
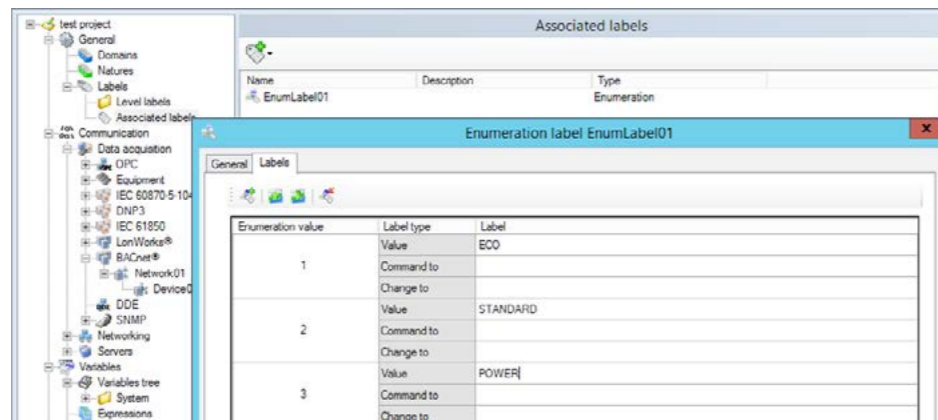
Application Architect

✓ More communication items

- SNMP Manager, OPC Client, IEC 60870-5-104, DNP3

✓ Modelling associated labels items

✓ Ergonomic enhancements

✓ Graphic preview

- Symbols and mimic thumbnails

✓ Templates documentation

- Each template can now include its documentation

✓ Naming rules on more items

✓ Messages sorting in generation report

✓ Deselection of instance for generation

✓ Parameters evaluation improvements
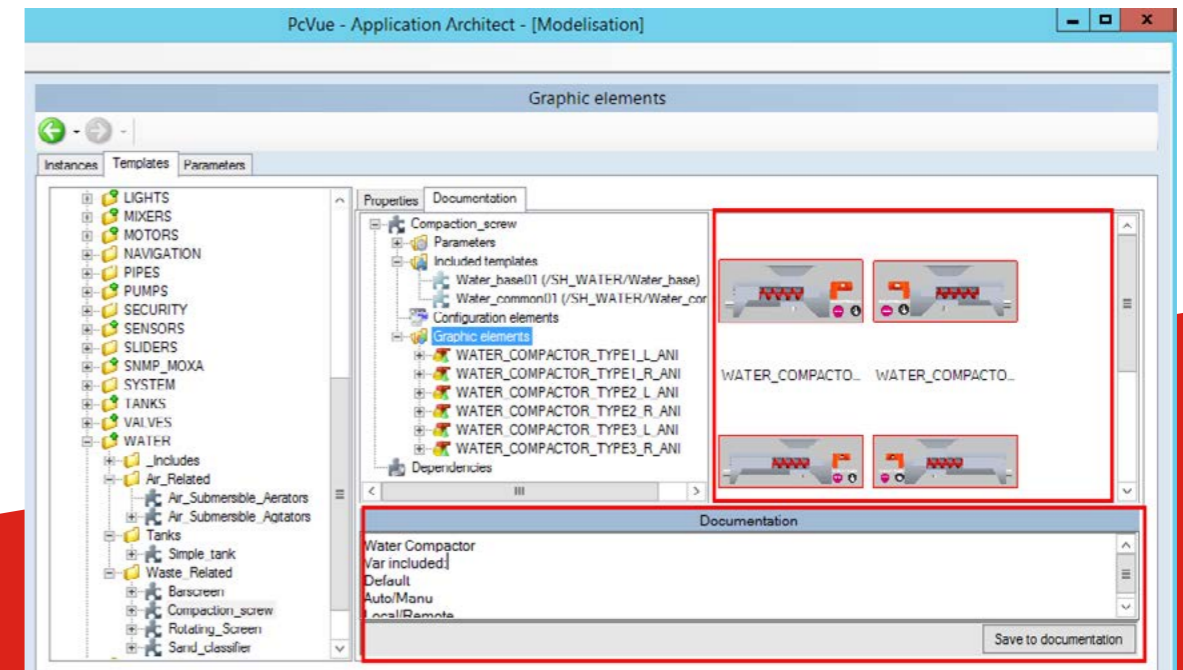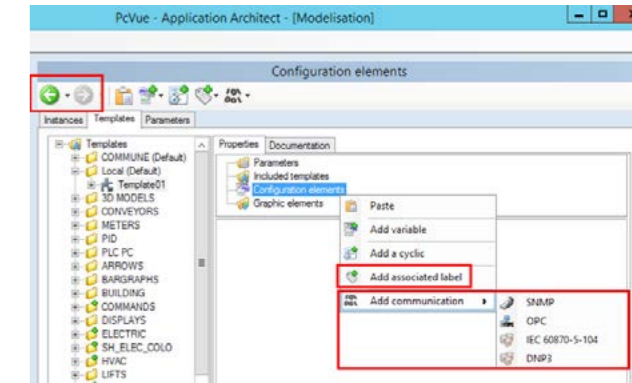
HMI

An even more delightful interface yet still easy to configure

✓ **Historical mode for the Grid control**

In addition to the Variable Tracking mode, the Grid control now supports an Historical mode that can be used to display trend data.

It comes with several features:

• Filtering based on time period or variable selection,

• A new set of SCADA Basic instructions,

• Color changes based on thresholds and quality,

• Export of the displayed data to Excel or Csv files.

✓ **Tooltip on all animations**

It is now possible to add tooltip on all types of animation

✓ **Highlight of control zones**

It is now possible to disable the highlight of control zones on mouse over.

✓ **Virtual keyboard language layout switch at runtime**

Data Processing

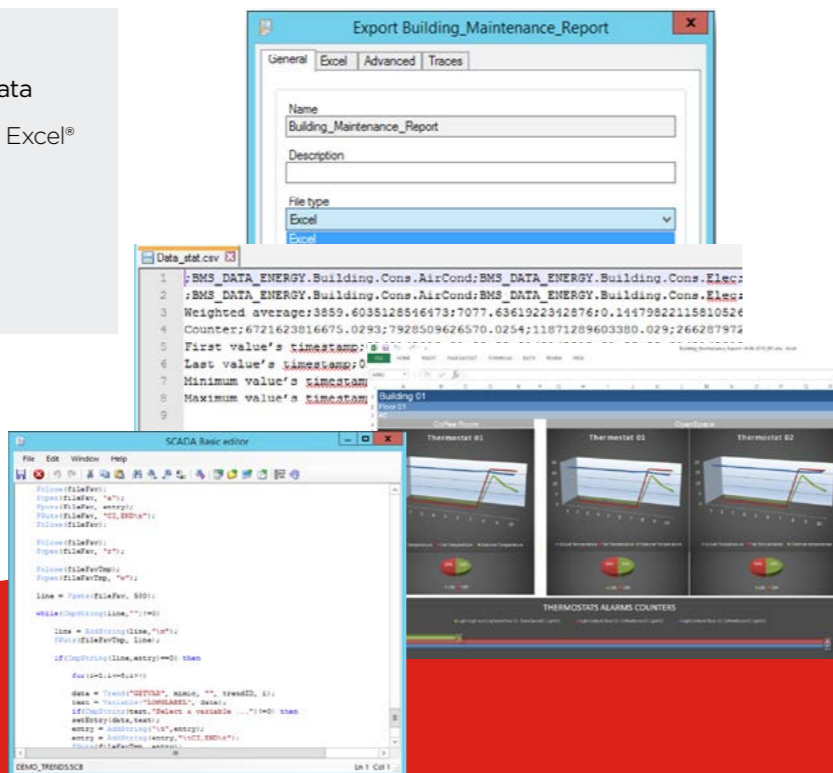## Improve capabilities while saving development time

DATA EXPORT

✓ **Adapt the output to fit the way you analyze your data**

• Output can now be generated in the form of an Excel® Workbook or CSV file

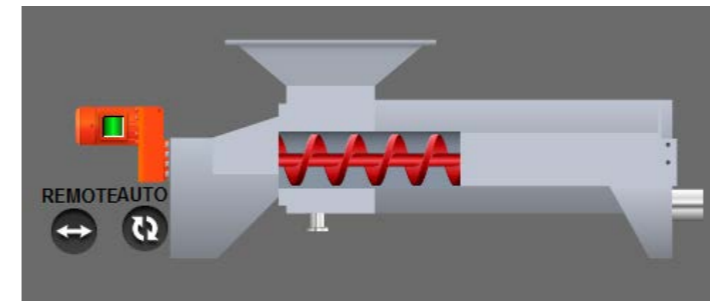### SCADA BASIC

✓ **Tens of new functions & modes**

New Libraries

✓ **New libraries to cover the WATER vertical market**

• 450+ objects added

• Mixers

• Probes

• Water specific devices

✓ **New MOXA switches**

• IKS-6728A

• IHS-G6524A

• IKS-G6824A

Data Acquisition

One more way to interconnect your industrial devices efficiently

EtherNet/IP™

✓ **An industrial Ethernet standard**

• The EtherNet/IP™ driver is available in PcVue 11.2*

• EtherNet/IP™ is a member of a family of networks that implements CIP (Common Industrial Protocol)

• Proven and complete industrial Ethernet network solution available for manufacturing automation

• Supported by hundred of vendors arounds the world

Available in 11.2 Update

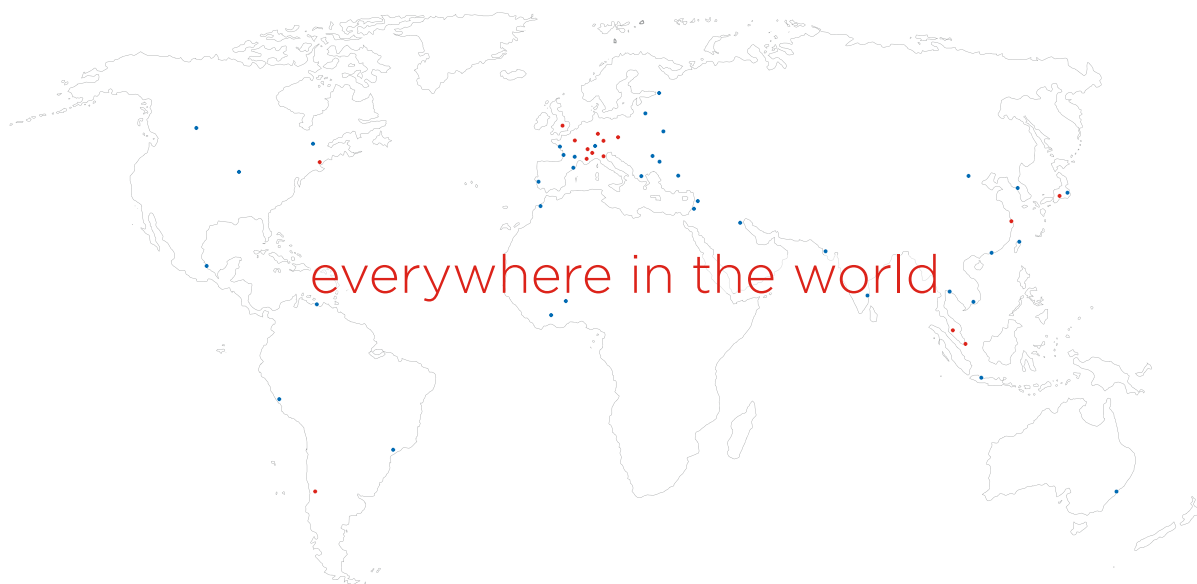# Your Independent Global SCADA Provider

ARC Informatique

Headquarters and Paris office
2 avenue de la Cristallerie
92310 Sèvres - France

tel + 33 1 41 14 36 00
fax + 33 1 46 23 86 02
hotline +33 1 41 14 36 25

arcnews@arcinfo.com
www.pcvuesolutions.com

everywhere in the world

ISO 9001 and ISO 14001 certified

Microsoft CERTIFIED Partner