PcVue® Solutions

Software platform for IoT, SCADA,
BMS & real-time data analytics

PcVue Solutions

Smart City

PRODUCTION AND DISTRIBUTION OF ENERGY, WATER & WASTE
TREATMENT, TRANSPORTS, BUILDINGS AND INFRASTRUCTURES

www.pcvuesolutions.com

ARC Informatique has been developing and marketing industrial software for over 35 years.

ARC Informatique is the PcVue Solutions SCADA developer, offering software, hardware and application support as a global service to several markets. The company has over 20 years' experience in supervision of cities.

PcVue Solutions also provides an open and scalable platform for the operation and maintenance of energy production systems, treatment of water and waste, infrastructure and buildings or transport, thanks to an intuitive interface, real-time data tracking tools and archived data analysis.

Several hundred sites in cities are supervised by PcVue Solutions to date including Paris airports, the AIRBUS aircraft construction site in Toulouse, or even the railway installations of several cities, ...

ISO 9001 and ISO 14001 certified, ARC Informatique is present worldwide and relies on a network of partners, distributors, OEMs, machines and systems integrators to offer its products and expertise..

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
BACnet™ BTL B-AWS Listed
LonMark® International Partner

A data integration and services platform for supervision of smart city

With long-standing experience in the heart of cities, PcVue Solutions supports you in the digital transformation of cities with supervision solutions adapted to all the structures that contribute to the functioning of a smart city.
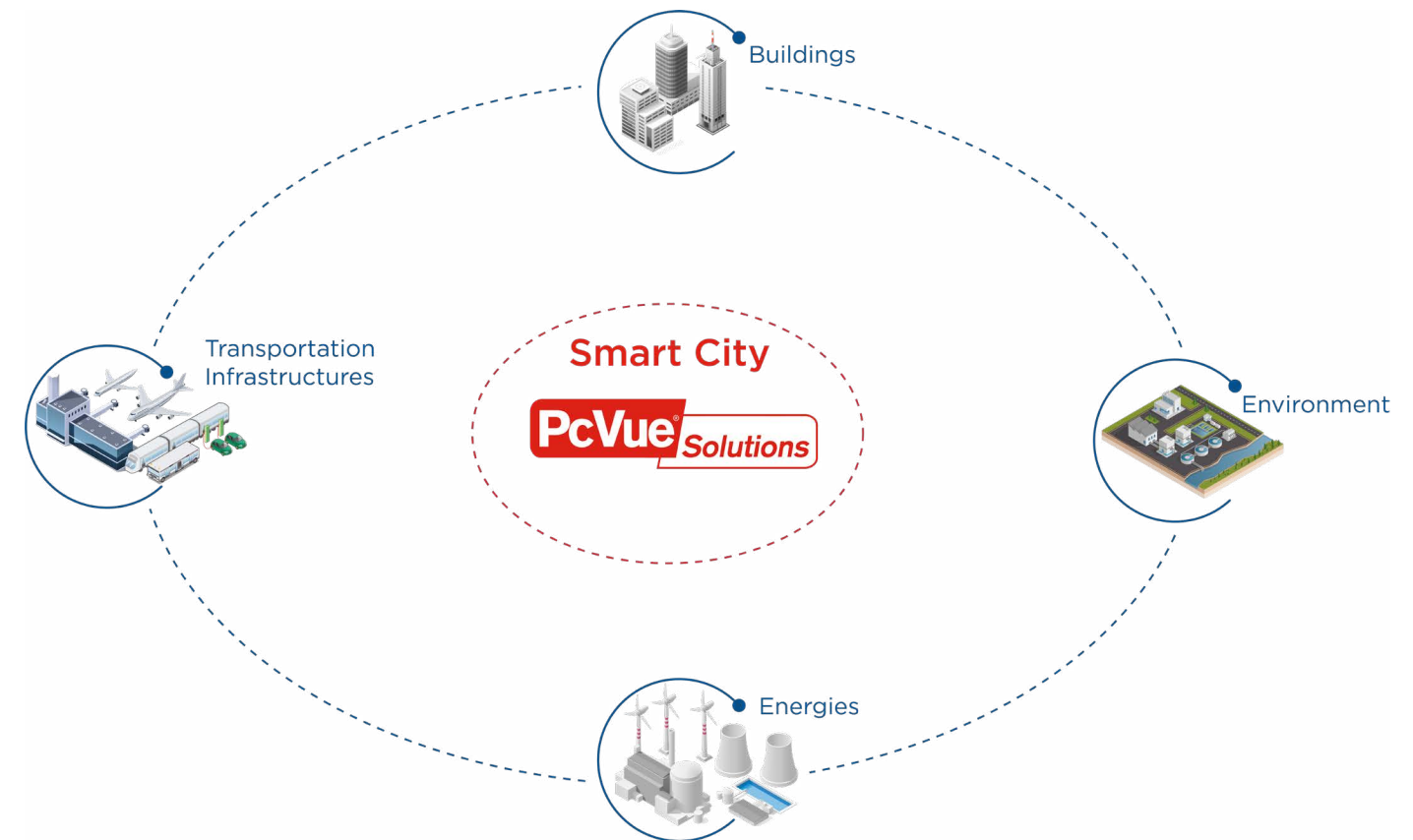
✓ **PcVue Solutions provides monitoring and control solutions that meet the constraints of all the structures that make up a city** : the production and distribution of energy, the water and waste treatment, transports, buildings and infrastructures.

✓ With **a platform capable of supervising all types of equipments and connected objects**, interface with heterogeneous systems in a scalable way and web and mobile solutions innovative PcVue Solutions is at the heart of the smart city.

✓ **The expertise, proven by many references in cities around the world** combined with our technological innovations make **PcVue Solutions the ideal partner to support you in the transformation of today's cities**.

Smart buildings

Office buildings, data centers, industrial facilities, hospitals, airports, train stations, parking lots, malls, universities

"Supervision is the extension of the building that becomes more connected, more interactive, more intuitive ... smarter!"

NEEDS

✓ Manage one or several buildings in a centralized and cohesive manner

✓ Ensure occupants' comfort and safety in all circumstances

✓ Guarantee proper functioning and durability through efficient maintenance

✓ Optimize the return on investment while ensuring regulatory compliance

✓ Run an open and scalable system that adapts to changes at lower cost

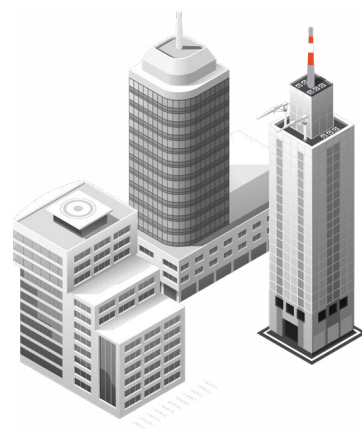✓ **Make the building more intuitive and interactive for users**

SOLUTIONS

✓ Monitoring solutions for all technical aspects of the building

✓ Intuitive graphical interface for monitoring and control of facilities, locally or remotely

✓ Monitoring and analysis of real-time performance

✓ **Native support for standard protocols BACnet™, LonWorks™, KNX, Modbus®, SNMP, OPC...**

✓ Optimized management of alarms and events

✓ Data archiving locally or in the cloud

✓ Advanced data analysis & Reports

✓ Single development platform featuring an intuitive configuration environment

✓ Interoperability with all building management services

Financial Center TAIPEI 101 / Taipei - Taiwan
Energy management system of the TAIPEI 101 tower

Hotel Ritz / Paris - France
BMS of the hotel

Coeur Défense / Courbevoie - France
Revamping the BMS of Coeur Defense

...

References

Paris area Aeroports / Paris - France
BMS of one of the Paris airport Terminals

AIRBUS / Toulouse - France
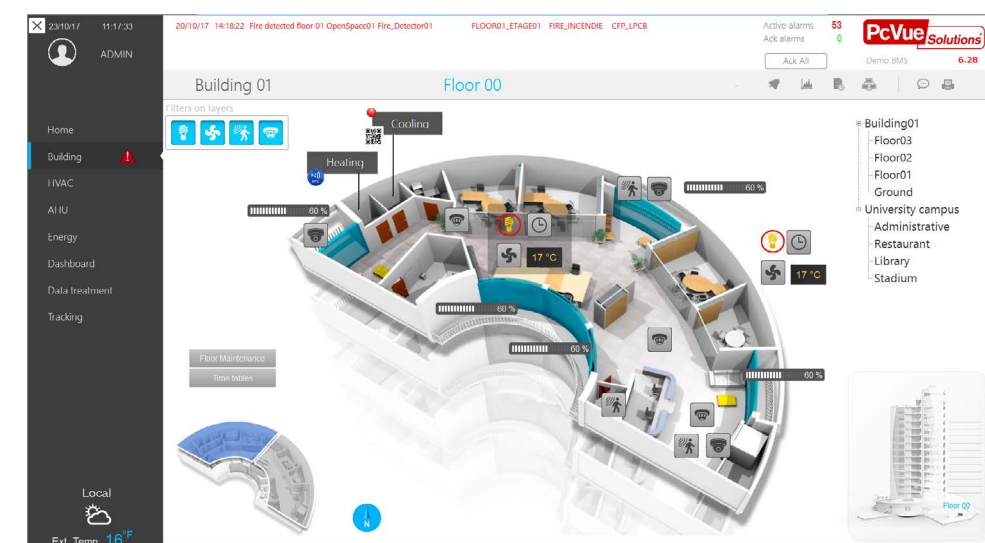BMS of the buildings used for the Airbus A380 assembly line

Sustainable environment
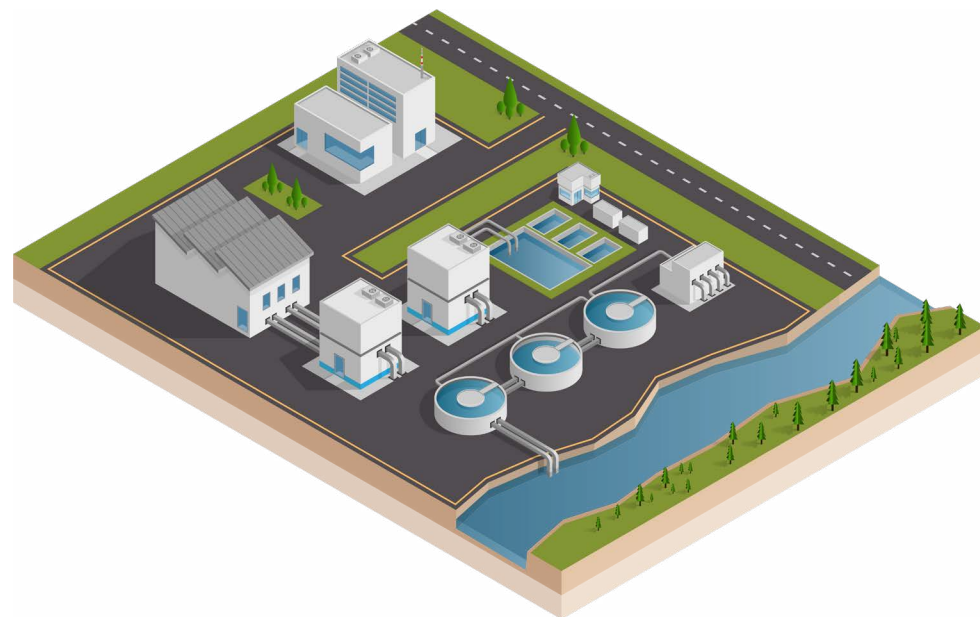
Water production & distribution, water & waste treatment

"PcVue Solutions contributes to the Green City by optimizing processes while ensuring a high level of quality."

NEEDS

✓ Monitor and control all kind of water systems

✓ Enables return on investment by reducing engineering time maintenance and energy costs

✓ Improve operationnal effectiveness to increase both productivity and quality of service

✓ Help to meet the requirements for compliance and regulatory reporting

SOLUTIONS

✓ Platform adapted to all kind of water systems

✓ Dedicated object libraries for Water

✓ Events and alarms treatment

✓ Powerful trends capabilities

✓ On-call and mobiles solutions

✓ Data processing and reporting tools

✓ High availability architectures

✓ Telemetry solutions

References

Waste water treatment / Nice - Istanbul - Florence - Bastia - Paris - Richemont - Epernay - Belfort - Cayenne - Syndicat des eaux du Nord Luxembourg - Estavayer Le Lac (Switzerland) - Bucarest,...

Production and distribution of water / Paris (Siaap) - Lyon - Nice - Grenoble - Shanghai - Florence – Taksetp - Lugano - Montpellier - Pt Indomitra Aneka Abadi (Indonesie) - Conseil national de l'approvisionnement en eau et du drainage (Sri Lanka),...
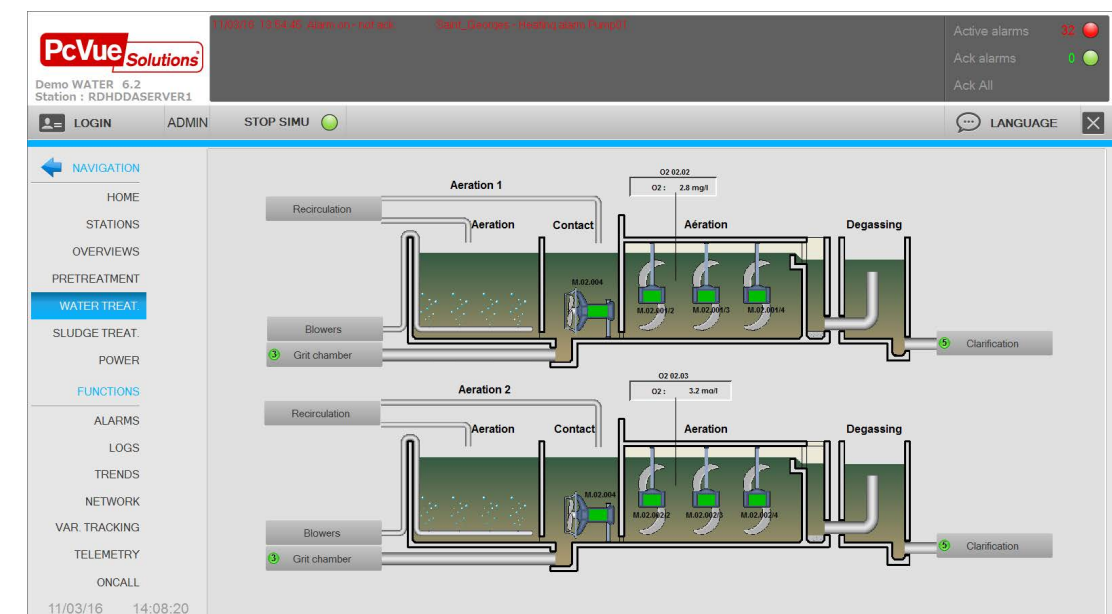
Energy production and distribution

Renewable energy, nuclear energy, heat production, substations automation

"PcVue Solutions is fully involved in the control of energies which is a major stake of the smart city."

NEEDS

✓ Providing energy to cities and their facilities reliably and continuously

✓ Supervizing the facilities of energy production of cities: monitor and control, keep in operational conditions

✓ Maintain a sufficient level of production respecting the regulatory constraints

SOLUTIONS

✓ Supervision and hypervision of the systems of production of cities

✓ Real-time control and alarm management and events

✓ Long-term operation with analysis tool and data processing (archiving, curves, ...)

✓ Production tracking and report editions comply with regulatory requirements

✓ Reliable, scalable and secure architectures
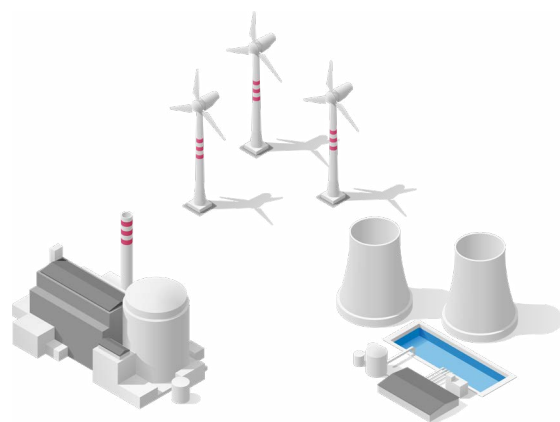
References

Electrabel / Belgium
Monitoring and control of the Bressoux power plant cogeneration

Hitaveita Reykjavikur / Island
Supervision and remote control of devices of the geothermal cental of the city of Nesjavellir (2 X 30 Mw)

IBERDROLA / Worldwide
World leader in wind energy

Supervision of all IBERDROLA wind farms in the world

STATKRAFT / Norvay
Supervision of the Vessingfoss hydropower plant. The average annual production is 88 GWh
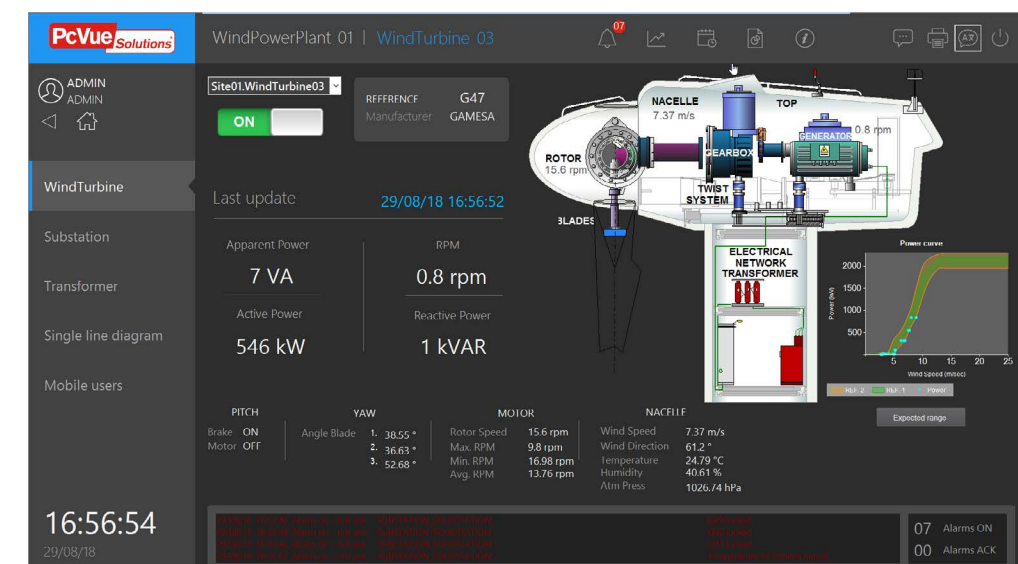
Infrastructures

Airports, ports, train stations, tunnels, bridges, highways, waterways

NEEDS

✓ Supervise various technical installations

✓ Ensure maintenance in operational conditions

✓ Contribute to the safety of people

SOLUTIONS

✓ Open and scalable platform

✓ Alarm and event management

✓ Integration of video and intercom systems

✓ Management of archiving and restitution of data

Parking lots / Sepadef (Paris la Défense) - Nantes (France) - Aéroports de Paris Orly - Aéroport de Nice - Musée du Louvres - Monaco - Aéroport de Strasbourg - Lyon Park auto …

References

Highways / South of France highways - A10 - A14 - Viaduc Millau

Tunnels / Croix Rousse Lyon - Monaco - Mont Serin - Payon - Saint Gotthard - Sanef Autoroute A1 - Paris Tunnels - Side Tunnel Brenner Autriche

Airports / Paris - Roissy - Charles De Gaulle - Le Bourget & Orly - Brest - Campia Turzi - Carrasco - Casablanca - Genève - Lille - Maldives - Marseille Marignane - Melbourne – Fiji - Tahiti - Philippines - Nice - Lyon St Exupery
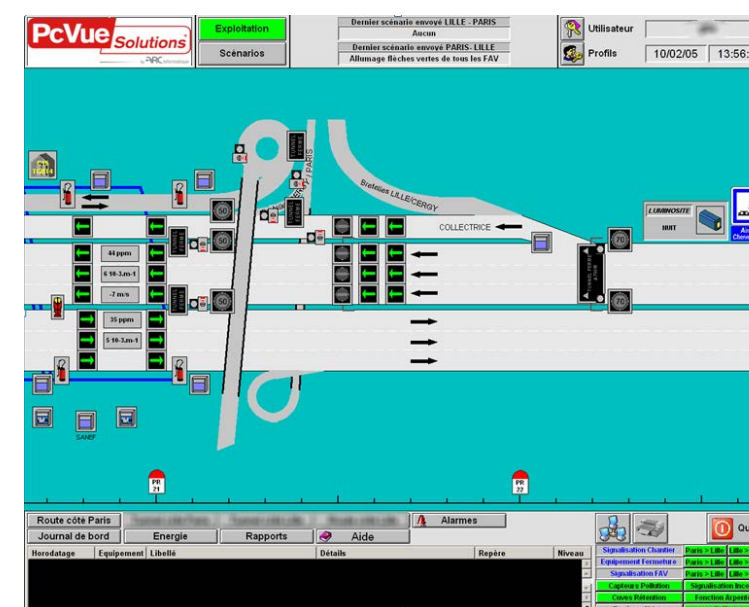
Transportation

Trains, metros, tramways, bus, electrical vehicules

NEEDS

✓ Supervision of intra/extra urban transport facilities: monitoring and control, keep in operational conditions
✓ Contribute to the safety of people
✓ Respect regulatory constraints

SOLUTIONS

✓ Real-time supervision and alarm management and events
✓ Long-term operation with analysis tool and data processing (archiving, curves ...)
✓ Report editions that meet the requirements regulatory

Trains / Sncf - Perumka Railway, Train Signaling Main Control Center Colombo (Sri Lanka) - Auckland Train Signalization - Delhi Metro Rail Corporation Ltd. - Melbourne
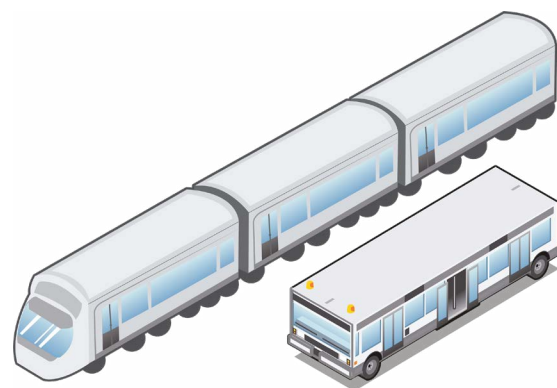
References

Tramways / Lyon – Rabat - Grenoble – Montpellier – Avignon – Angers - Nantes

Metros / Lyon – Marseille – Singapore – Istanbul - Santiago du Chili – Le Caire – Adélaïde – Mexico city

Bus / Tours – Metz – Lyon
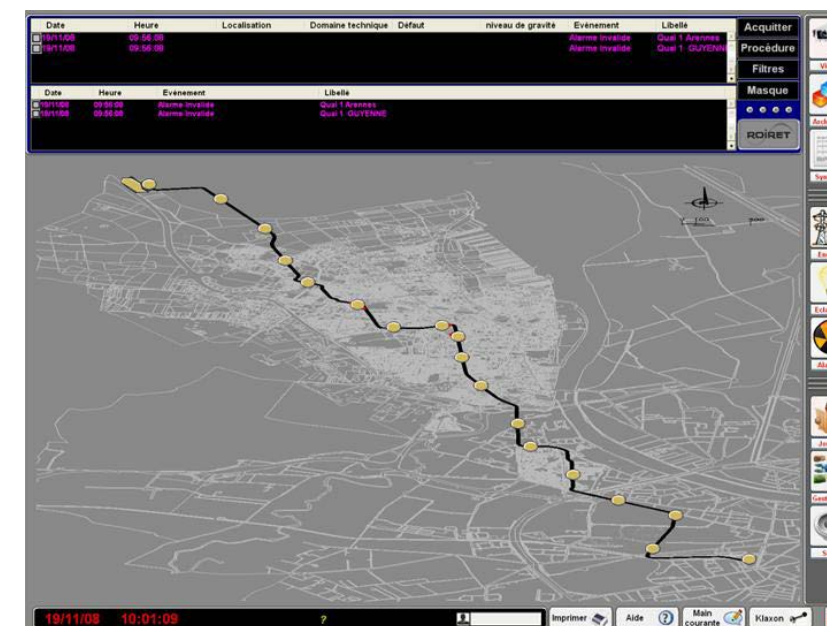
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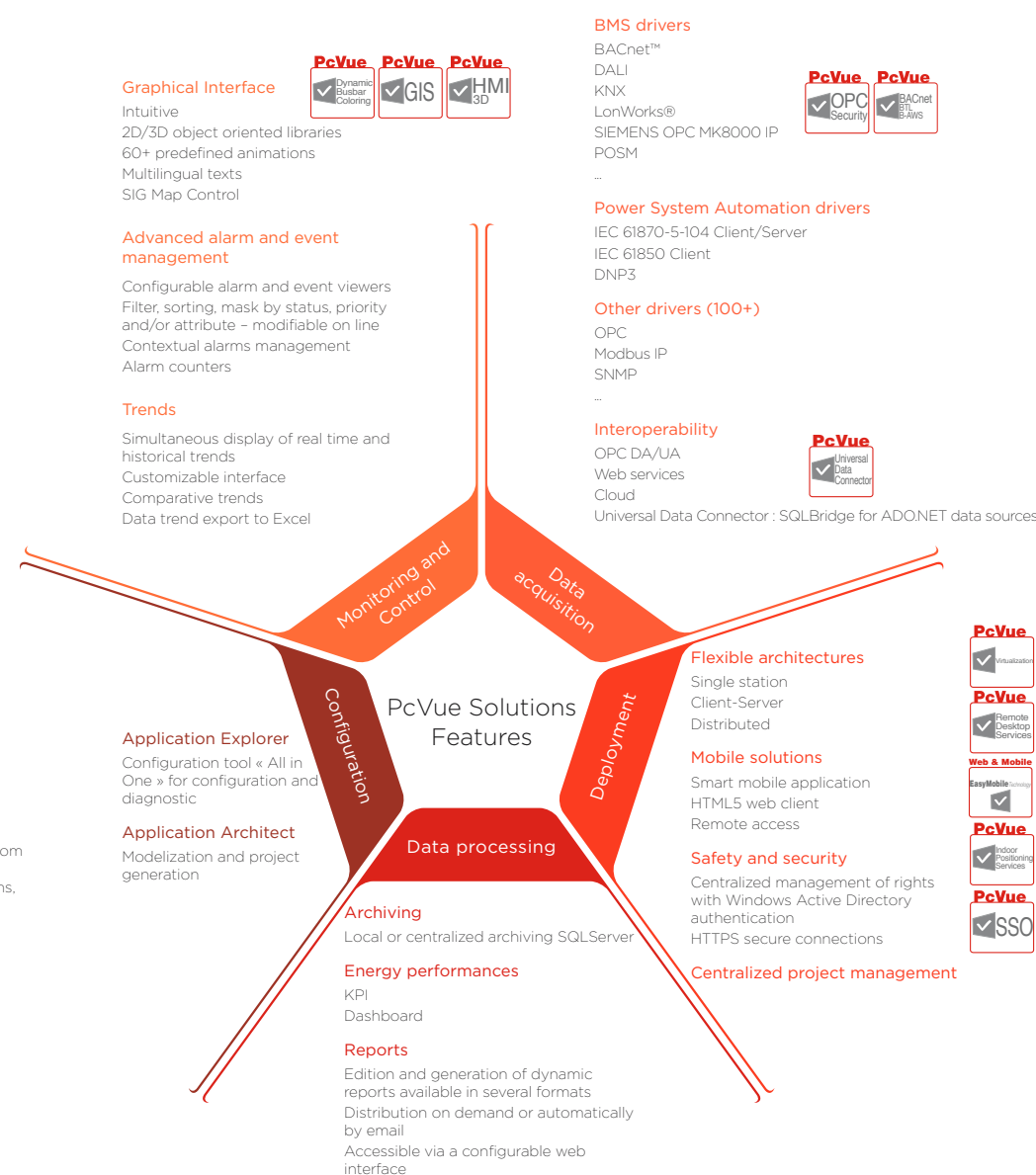
Success Story

Focus on the Principality of Monaco

PcVue is involved in the management of many sites in the Principality. Starting with the Hotel de Paris and its shopping center whose BMS is fully controlled by PcVue collecting more than 65,000 tags.

From the Oceanographic Museum of Monaco to the train station or the Meridien Beach Plaza Hotel, PcVue is a privileged partner of the city.

Famous for its prestigious residences, Monte Carlo hosts the Odeon tower the most expensive apartment in the world. The double skyscraper rising to 170 meters is the first tower of the city to be built in 35 years and the second highest building of the Mediterranean European coast. The PcVue solution is the building management system of the impressive complex.

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

PcVue ✓ Dynamic Busbar Coloring   PcVue ✓ GIS   PcVue ✓ HMI 3D

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
...

PcVue ✓ OPC Security   PcVue ✓ BACnet B Aws

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

Other drivers (100+)
OPC
Modbus IP
SNMP
...

Interoperability
OPC DA/UA
Web services
Cloud
Universal Data Connector : SQLBridge for ADO.NET data sources

PcVue ✓ Universal Data Connector

Monitoring and Control
Data acquisition

PcVue Solutions Features

Configuration
Deployment
Data processing

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®
Saia Burgess Controls
Schneider Unity®
Siemens STEP 7
Siemens TIA Portal
WAGO®
...

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

Flexible architectures
Single station
Client-Server
Distributed

PcVue ✓   PcVue ✓

Mobile solutions
Smart mobile application
HTML5 web client
Remote access

PcVue ✓ Remote Desktop Services   PcVue ✓ Distributed

Web & Mobile
EasyMobile ✓

PcVue ✓ Indoor Positioning Services

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

PcVue ✓ SSO

Centralized project management

Odeon Tower
Hôtel de Paris
Auditorium Régnier III
Grimaldi Forum
Yacht Club
Oceanographic Museum
Monaco's PcVue Solutions Point Of Interest
Water Treatment Station
Monaco GP
Monaco Telecom
Louis II Stadium
Hospital

And also
20+ parkings
Le Méridien Beach Plaza
Monte-Carlo Bay Hotel & Resort
...

PcVue® Solutions

by ARC Informatique

Mastering interfaces between
#Humans
#Systems
#Connected things

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