PcVue 12
Open, secure and mobile platform
PcVue 12

Web & Mobile platform

Vertical markets

Configuration

Connectivity

Graphics

Deployment
In the rear mirror
Web & Mobile platform

A complete offer

Solutions for all mobile requirements

Mobility server

- HTML5 Web Client

  Notification based solution

  Navigation using a mobile app or a web browser

- On-duty app

  Notification based solution

  Notification, acknowledgement, basic monitoring & control

- Geo-contextual app*

  Location based solution

  Location based monitoring & control

Solutions can be used individually or can be combined together

*These solutions are for mobile requirements.

HTML5 Web Client
Web & Mobile

Icon made by Freepik from www.flaticon.com
A complete offer

A solution for each mobile need

Mobile solutions for...

- Ease the access to information
- Allow diagnostic
- Improve the decision making

Using our contextual systems

- Depending on alarms or events
- Depending on user or device location and role
Web & mobile technology

The mobile solutions are based on our technology **EasyMobile Technology** which ensures a fast, easy and secure configuration & deployment

- No gateway, no extra plugin
- No installation on client side
- Easy settings – no scripts – Wizard only
- Open to third-party application
- Adapted to any users: end-user, SI, IT
- Secure scalable architectures and communication
- Easy Diagnostic
- Affordable solutions
Architectures

Regular | Secure (recommended) | Advanced

Clients

Secure zone (DMZ)

Industrial network

PcVue Web & Mobile Backend
Web Deployment Console
Web Server IIS
Registry services
Server

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Regular (not recommended)

- PcVue backend and WEB/IIS servers hosted and run on the same computer
- Non isolated networks
- Low security level
- Intended when the network is private and fully isolated from outside access
Architectures

Secured by isolation network and DMZ (recommended)

- PcVue backend and WEB/IIS are not on the same network
- Isolated network
- High level of security
Configuration and deployment console

Web and mobile ready in few clicks!

- Parameter interface for configuration and deployment
- Deployment of web services and web apps on IIS
- PcVue Web Back-end endpoint management
- Data protection management
- Certificate management
- User access logging & OAuth Server management
- IIS auditing / diagnosis
Deployment and configuration

Web server

Welcome to the server configuration

Enter the server configuration and click next to continue.

Alias
MyServer

Will all the services be provided by one web server?

Quick setup
Simplified deployment wizard based on roles

Custom setup
Custom deployment wizard if you require fine tuning

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The deployment console

Name & Binding

Name

 Bindings
Certificate
Back ends
Roles
Summary

MyWeb

Name

 Bindings
Certificate
Back ends
Roles
Summary

Please give a name for the website that will be deployed.

MyWeb

You must securely bind your site to a specific port and host. Web clients can then access the web server using either the IP address, hostname, or the URL.

Bind using hostname

On

Hostname

User-Machine-ID

Port

443

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The deployment console

Certificate

MyWeb

Name Bindings Certificate
Back ends Roles Summary

You must have a certificate to use HTTPS. You can either select an existing certificate or create a new one.

New certificate

In this view, you can manage certificate enrollment. Proceed according to the requirements and constraints.

import a certificate
self-signed
create request
let's encrypt

MyWeb

Name Bindings Certificate
Back ends Roles Summary

You must have a certificate to use HTTPS. You can either select an existing certificate or create a new one.

Certificate

USER-MACHINE-ID

CN=USER-MACHINE-ID

01/08/2019 02:00:00
The deployment console

Back end

Back end configuration

MyWeb

Name

Select an existing back end configuration or click the add button to add a new one

Bindings

Certificate

Back ends

Roles

Summary

If you change the back end after you have configured a site the site configuration will be automatically updated

Alias
MyWeb

Host
localhost

PvVue back end

On

8090

Save

Cancel
The deployment console

Roles & deployment
The deployment console

**Diagnostics**

- **Run Diagnostics**
  - **IsSettings**: Diagnosis detected no errors.
  - **ApplicationPools**: Diagnosis detected no errors.
  - **Authentication**: Diagnosis detected no errors.

- **MyWeb**
  - Bindings
  - Certificates
  - Roles & Services
  - Backends
  - Logging
  - Data protection
  - Service configuration
  - Summary

- **Authorization**
  - New client
  - Clients
  - Tokens
  - Grants

- **Registry service**
  - Configure
The deployment console

Benefits

• Make the deployment process as simple as possible for system integrators

• A tool designed for any users from non specialists to IT experts

• Can be used as part of the documentation and auditing of web servers

• Facilitate diagnostics
WebVue 12

**Full built-in HTML5 client**

- No gateway – embedded HTML5
- Better graphics rendering
- Better user experience
- IT friendly - secured

- Cross-browser compatibility
- Scalable & open
- Mobile friendly
- Less resource intensive
WebVue 12

Benefits for the end user

- No extra cost/issues due to the gateway
- Zero installation, zero configuration on client side
- Better performance, better responsiveness
- Ability to monitor/control mimics on any device with a web browser
- Ability to monitor multiple mimics concurrently in multiple web browser tabs
WebVue 12

Benefits for the IT department

• Easy to deploy via the deployment console

• No browser plugin or runtime components required

• Allows secure architectures by installing web server components in a DMZ

• Secure communication - HTTPS only
WebVue 12

Benefits for the SI

• Full web-based HMI

• Transparent license model

• Open API: Can integrate symbols and mimics in its own apps or web-portals

• User context: True multi-user capacity, even for internal variables

• Cross-platform: runs on almost every device regardless of the operating system

• A new RESTFul/Json Web Services Toolkit
Navigation based solution

WebVue 12

Screenshots
WebVue

**Demonstration**

- Scan the QRCode
  [https://mobility.pcvuesolutions.com/webclient](https://mobility.pcvuesolutions.com/webclient)
- Name: webvue_en
- Password: webvue_en
TouchVue 12 – Key features

The mobile app for immediate action

- New ergonomics
- New back end
- On-call/on-duty mobile app for PcVue
- New access the data from several sites
- Real time information and notifications (Alarms, values, trends) for immediate action (acknowledgment or control values)
- Archived data (events logs, historical trends)
- Data filter depending on user profiles
- Watchlist for favorite variables to watch
- New multi pens trends
TouchVue 12

Benefits

• The easy notification solution
• Fill the gap where remote access and light clients are not enough
• Help both sub-contractors and end-users in increasing productivity
• Ready to use – No extra development – Easy to implement in an existing project
• Give managers an eye on their site
• Cost effective solution
TouchVue 12

At a glance

Notifications

Notifications inbox

List of variables to follow

Multi site connexion

Variables access

Real time alarms list

Recorded event logs
TouchVue 12

Connection

Server

Server access

Credentials
TouchVue 12

Alarms

Notification based solution

Real Time list

Notified alarms

Status & name

Status

Attributes

Acknowledgment or mask

Selection

Notification

Detail
TouchVue 12

Real-time data

- Access real time information of your process
- Monitor, control

Variable tree

Favorite variable
TouchVue 12

Monitoring & control

**Analog value**

- Thermostat temperature floor 01...
  - Value: 20 °C
  - Domain: FLOOR01_ETAGE01
  - Nature: HVAC_CVC
  - Minimum value: -5
  - Maximum value: 30
  - Set Value: 1

**Bit**

- Thermostat Command floor 01...
  - Value: Animation 1
  - Domain: FLOOR01_ETAGE01
  - Nature: HVAC_CVC
  - Set Value: 01
TouchVue

Demonstration

• Scan the QRCode

• Download the app

https://mobility.pcvuesolutions.com/download
Notification based solution

**Demonstration**

- **Server:** mobility.pcvuesolutions.com
- **Name:** maint_en
- **Password:** maint_en
# Mobile offer

## Overview

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* > 12
Connectivity

Connect [any] things.
IoT

An additional way to connect

New IoT driver for LoRa

• Easy to deploy architectures: wireless & self powered sensors
• Objects seamlessly connected to PcVue
• Support for hybrid solutions with legacy devices and new objects
• Take advantage of the PcVue data treatment for your IoT
New Universal Data Connector

A new way to exchange data

- Request handler for 3rd party on premise/cloud-based RDBMS
- Link to ERP, MES, CMMS, Facility Management
- Communication to Social Networks
- Connection to REST Services
New Universal Data Connector

A new ADO.net based connection engine

Connectivity

SCADA Server
1. PcVue
   - SCADA Basic
   - SV Manager Toolkit
   - Others...
   - Internal manager

Universal data Connector
2. ADO.NET provider abstraction layer

ADO.NET providers
3. .NET Framework
   - ODBC
   - OLEDB
   - SQL Server
   - Oracle
   - MySQL
   - PostgreSQL
   - ... cdata
   - devart
   - ...

Data Server
On premise or cloud

ODBC sources
- ODBC
- OLEDB
- SQL Server
- Oracle
- MySQL
- PostgreSQL

NoSQL & Big Data
Social Networking
- ...

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New Universal Data Connector

Features

• Built-in – No need for VBA scripting
• Error handling and asynchronous calls
• Centralize connection strings
• Control which PcVue is in charge of the RDBMS interface
• Avoid security breach in your network
• WebVue compliant SCADA Basic scripting
• SV Manager Toolkit API
New Universal Data Connector

Screenshots
Connectivity

New and updated drivers

Beyond good performance

**OPC**

- Fast and easy OPC integration thanks to new Smart Generator OPC DA
- More interoperability with the support for OPC UA

**SNMP Manager optimizations**

- Expanded performances allowing very large amount of data
- Support for 100 000+ SNMP objects
Vertical Markets

"Markets need. PcVue Solutions."
BACnet

BACnet (R)evolution

BACnet runtime

• On-demand reads

BACnet design-time

• Engineering based on Templates & Instances
• Library of BACnet objects

BACnet benefits

• Performance and user experience
• More integrated BAS engineering
EtherNet/IP™

A standard for industry

- The EtherNet/IPTM driver is available in PcVue for Rockwell PLC/PAC

- EtherNet/IPTM is a member of a family of networks that implements CIP (Common Industrial Protocol)

- EtherNet/IPTM is a proven and complete industrial Ethernet network solution available for manufacturing automation

- Supported by hundred of vendors around the world

- Supported ranges of controllers:
  - CompactLogix
  - ControlLogix
  - DriveLogix
  - FlexLogix
Smart Generator SIEMENS TIA portal

**SIEMENS Integration**

**Import** the elements from a TIA project
- Variables
- Communication

**Generate** your PcVue project
- Filter imported elements
- Customization

**Synchronise**
- Update the PcVue project on TIA configuration changes

*Save time on mapping*
Substation automation

Features - Benefits

**IEC 61850 client driver**
- Additional services support
  - File Transfer
  - Setting Groups

**Support for IEC 104 outstation points in Templates**
- Better coverage of SA requirements
- Integrate PcVue in the substation engineering process
Graphics

Beautiful. Efficient.
New railways libraries

- Aims to covers railways at large:
  - Trains, subways, tramways
  - Railways signaling, station equipment (ticketing, ...)
- Includes images

Libraries updates

- Water,
- System,
- Displays,
- ...
New & Updated Libraries

New Quickstart

New project templates that fit latest UI/UX trends

- 3 new Styles: Industry, Dashboard, Web
- 2 Color themes: Day/night
- 4 highlight colors

• Create a nice and ergonomic project in few clicks
• Customize your templates
Stats – new features
• Raw data
• Statistics
• Aggregated statistics
• Threshold colors

Display all the data from the Data export in a mimic
New animations

Smart TextBox

- New text control
- Multiline, scrollbars, ...
- Inputs filtering, password mode, trigger programs, ...
- Run time features: search, replace, count, ...
- Fully manageable with SCADA BASIC
- Many usages: Logs, notes, ...

New Animations

- Display an image on any value
- Color on text value
- Trends viewer: 16 pens (was 8)
Chart – Pie Support

New support for chart and pie control

**Chart**
Doughnut, pie, pyramid

**Run time features**
Value format, collection, explode, skins, colors, populate, 2D/3D, save, print,…

Suitable or dashboarding & reporting
Built-in and flexible
Chart - Pie

Production 2018

- Cataluña - Barcelona: 42.1%
- Castilla - Toledo: 18.09%
- Islas Baleares - Palma: 12.37%
- Canarias - Gran Canaria: 10.22%
- Galicia - Santiago de Compostela: 3.32%
- Aragón: 4.61%
- Navarra - Pamplona: 2.48%
- Andalucía - Sevilla: 20.29%
- Cantabria - Santander: 1.76%
- La Rioja - Logroño: 1.48%

Legend:
- Blue: Cataluña - Barcelona
- Yellow: Castilla - Toledo
- Red: Islas Baleares - Palma
- Light Blue: Canarias - Gran Canaria
- Green: Galicia - Santiago de Compostela
- Light Grey: Aragón
- Dark Grey: Navarra - Pamplona
- Orange: Andalucía - Sevilla
- Pink: Cantabria - Santander
- Purple: La Rioja - Logroño
Configuration

“Powerful. Easy.”
Advanced Configuration Environment

Application Explorer / Application Architect

**Application Explorer**

New configurations
- timestamp quality labels
- default associated labels
- populations
- function keys
- line printers

Audit of active sessions

**Architect**

- Support for more data acquisition items: IEC 61850, BACnet
- Support for archive units, log lists
- Ability to model and generate application files
- Excel lookup by expression
File transfers

**Features/Benefits**

- **Manage files from devices**  
  Configuration file, COMTRADE, COMFEDE...

- **Implemented services**  
  Browsing, Download, Upload, Delete

- **Support for**  
  IEC 61850  
  DNP3

- **3 ways to use it**  
  User interface in the Application Explorer  
  Scripting via SCADA Basic verbs  
  Background automatic one-way synchronization (aka mirroring)

- **Facilitate exchanges with devices**
- **Takes advantage of embedded features of devices**
Deployment

“Up-to-date. Scalable. Cyber secure.”
Deployment

Supported platforms

Client stations
• Windows 7 (SP1), 8.1 and 10

Server stations
• Windows Server 2008 R2 (SP1), 2012, 2012 R2, 2016, 2019
• Data acquisition & Historical data servers
• Web server
• Remote Desktop Services

Microsoft SQL Server
**Signed installation package & binary files**
- No longer a need for legacy installation packages

**Download options**
- .exe - Single compressed archive
- .iso file
- Cumulative patches for Updates

**3 main installation menu entries**
- PcVue
- PcVue Web back-end
- Web Server Extension – Web Deployment Console
Licensing

**Licenses control management**

- Support for Software license
- USB dongle
Deployment

Platform compatibility

Your Investment Protected By Our Compatibility

Past

1993

PcVue 2

1993

PcVue 2

W 3.1

W 7

W 2008R2

W-XP

PcVue 10

PcVue 10

W 7

W 2008R2

W-XP

W 8.1

W 10

W 2012 Server

Future

2018

PcVue 11.2

PcVue 11.2

W 8.1

W 10

W 2012 Server

W 10 IOT Enterprise

W Server 2016

W Server 2019

SQL Server 2016

SQL Server 2017

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Mastering interfaces between #Humans #Systems #Connected things

Questions/Answers

Let’s talk!
Thank you for your attention

Keep in touch!