

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

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THE RIGHT INFORMATION TO THE RIGHT PERSON AT THE RIGHT PLACE AT THE RIGHT TIME SECURELY PRESENTED www.pcvuesolutions.com

N)) NFC

OPPORTUNITIES

- ✓ Take advantage of the growing availability of data
- ✓ Transform big data to relevant information
- ✓ Display information in the context of location/role
- ✓ Automatically push information to the mobile worker
- ✓ Protect the data

The Mobility Opportunities

The rise of smart mobile devices and the impact to SCADA

The massive adoption of smart mobile devices in the professional world in the ever more connected world of the Internet of Things (IoT) or the Industrial Internet of Things (IIoT) raises new opportunities and also new challenges.

The systems generate more and more data that has to be filtered to bring relevant information on smart mobile devices with their limited size screens.

Moreover, the way in which people interact with smart mobile devices differs from the way in which people interact with laptop and workstations.

Historical approaches to monitor, diagnose, maintain and control industrial and building assets must be reconsidered.

Logic Engine

FEATURES

Wi Fi

✓ A contextual mobile HMI with proximity & location services

✓ A dedicated mobility server with a Contextual

- ✓ A mobile interface with notification based services
- ✓ A rich graphical HTML5 web interface
- ✓ Works with standard smart mobile devices
- ✓ A Secure design

The PcVue Mobile Solutions

The SCADA mobility reinvented

information, to the right person, at the right location and at the right time.

IPS (Indoor Positioning System) and the long-standing Global Positioning System (GPS) are standard features of today's mobile devices. PcVue Solutions has developed a mobility infrastructure that takes advantage of these new technologies to serve a contextual mobility based on proximity and location services.

device depending on his location and his role without the need to navigate.

This disruptive innovation allows for dramatically improved performance and efficient operation and safety.





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, Bluetooth LE Beacons, QRCodes, GPS...

What is needed is a system that is proactively and securely presenting the right contextual

The mobile worker is now able to automatically get relevant information on his mobile

Solutions for all mobility needs

- ✓ Solutions can be used individually or can be combined together
- ✓ Solutions for all mobile requirements



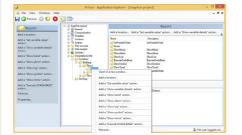
SnapVue* - Get the relevant information as you move

Contextual mobile HMI with proximity services

- ✓ Indoor/Outdoor geolocation using IPS (Bluetooth LE Beacons, QRCode, NFC, Wifi) and GPS
- ✓ Automatic contextual information & controls
 - Graphical HMI on mobile device
 - Real time values display & control •
 - Alarms & events management ٠
 - Trends visualization •
- Access to arbitrary local or non-local resources: audio, video, user-manuals, • documents in general etc.
- Attach a text or voice message to a location. •
- Open a chat-channel with the control room or other mobile users.
- Asset Tracking
- ✓ Object-oriented & user friendly configuration interface to reduce deployment time

*Available in version >12





TouchVue - The mobile app for immediate action

An interactive mobile interface for notifications and control

- ✓ On-call/on-duty mobile app for PcVue
- Latest ergonomic design
- ✓ Based on the EasyMobileTechnology for easy configuration and deployment
- ✓ Access the data from several sites

 Real-time information and notifications (alarms, values, trends) for immediate action (acknoledgments or control values)

- Archived data (events logs, historical trends)
- Contextual mimic display
- ✓ Data filter depending on user profiles
- ✓ Watchlist for favorite variables to watch

WebVue - Access your workstation graphics from your mobile device

A HTML5 web client for any device

✓ Monitor & control your PcVue process from a web browser with any devices

No specific development

 Mimics, alarm lists & acknowledgment, event logs, real time and historical trends

✓ Webservices toolkit available to create your own custom web interface

EasyMobile*Technology*

ensures a fast, easy and secure configuration & deployment

- ✓ No gateway, no extra plugin
- ✓ HTML5
- ✓ No client installation
- ✓ A deployment console for easy configuration no scripts Wizard only
- Open to third-party application
- ✓ Adapted to any user: End-user, SI, IT
- Secure scalable architectures and communications (HTTPS,SSO,OAuth)
- ✓ Easy Diagnostic
- ✓ Affordable

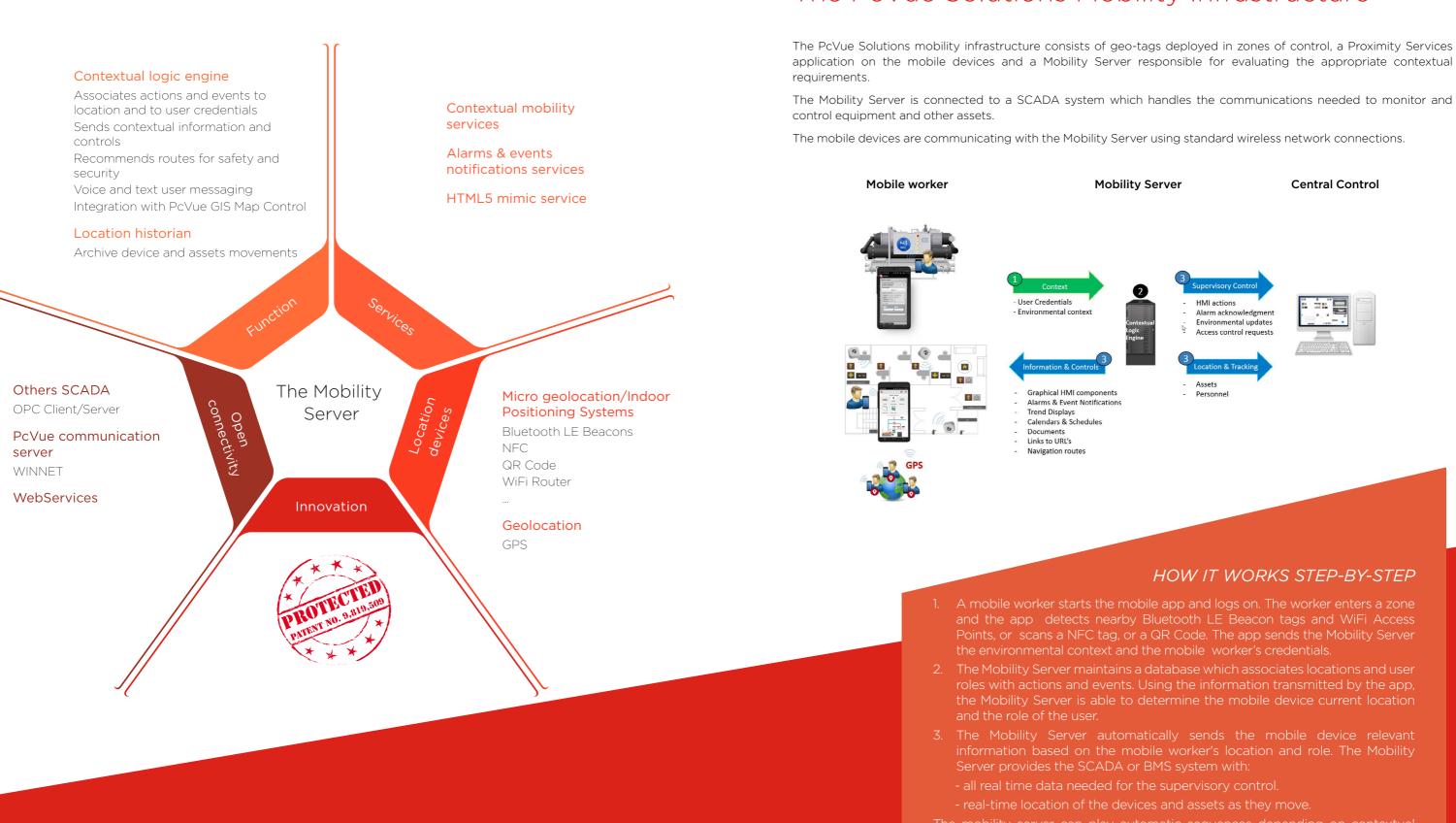






Our mobile solutions are based on the EasyMobileTechnology wich

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Server when these status change. For example when the last person leaves a zone, light is turned off.



The PcVue Solutions Mobility Infrastructure

Central Control

HOW IT WORKS STEP-BY-STEP

BENEFITS

Many benefits are realized with the deployment of a Mobility Infrastructure. These include benefits to all users depending on their roles and to the entire organization in safety, security, comfort and efficiency

Automatic tuning adjustment Access Control People Safety

Central

control

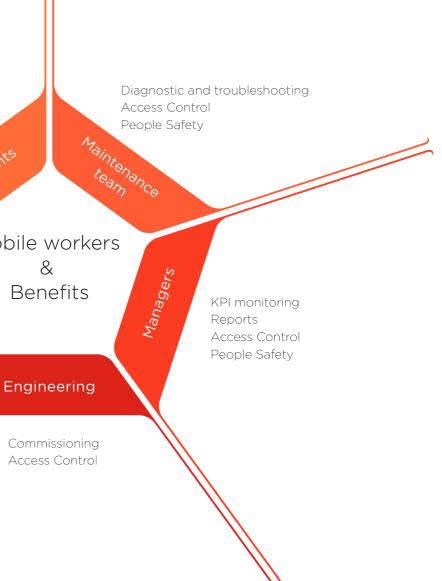
Tracking of moving assets Dispatching and guidance for a maintenance team Occupancy monitoring in an area Operation monitoring and control Access Control People Safety

Mobile workers & Benefits

Occupants

Commissioning Access Control







PcVue Solutions

USE CASES

Maintenance operations

SCENARIO

- A Maintenance staff is performing maintenance task on an equipment.
- They are facing a machine or equipment 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 equipment to maintenance mode masking alarms, then enter their maintenance actions & reports.
- They can consult Manuals or Equipment 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
- Automatically provides the correct information depending on where the maintenance staff is
- All Industries, Infrastructures and BMS applications.

Assets tracking

SCENARIO

- A critical asset has on-board sensors connected via WiFi,GPRS, GPS, ANT+, BTLE, RFID,LORA
- The location of the asset is sent back to the mobility server.
- Location of asset is monitored from server and tracked on a map updated real time.
- · He scans the QR code or touch the NFC tag to visualize status and eventually control some parameters if something needs to be done.

BENEFITS

- Monitor mobile asset movement indoor/outdoor.
- Verify asset movements.
- Maximize asset utilization
- Alarm triggering or Geo-Fencing on restricted area.
- Archive location history.

Safety and dispatching

SCENARIO

- Security guard securing a facility is patrolling an area at regular intervals.
- Guards have mobile devices running the app
- Their movements during rounds are detected by sensors or GPS location, tapping NFC on must check spots.

BENEFITS

- Optimize dispatch of personnel
- Dispatch assistance providing current location, qualifications.
- Trigger Alarm with personnel location in case of danger/emergency.
- Monitor and archive movements

Room display and control

SCENARIO

- Registered user with mobile device is moving around a building or facility entering different rooms or zones
- · Bluetooth LE Beacons are strategically located in the facilities to propose to the user interacting with his surroundings as he moves
- Particular equipment can be equipped with NFC tags or QR code for the user to access specific controls or parameters.

BENEFITS

- Provide an immediate graphical interface for the nearby devices asset
- Eliminates navigation through non relevant mimics
- Secured action according to user rights.
- Reduce GUI hardware cost around the facility.
- All Industries, Infrastructures, BMS and Home automation applications.



Data recording for non-connected devices

SCENARIO

- They then manually input the reading using his mobile device.

BENEFITS

- Enable management of non-connected devices.
- Paperless process.
- Logs automatically the operator who did the input.

Access Control

SCENARIO

- A person is granted access with GEO- tag
- user profile list Access is granted or denied according to their credentials.
- Mobility server logs all entries and eventually exits.

BENEEITS

- Cost effective time attendance software solution.
- Facility Management System, BMS, Hotels applications mostly.

Commissioning

SCENARIO

- at the same time.

BENEFITS

- Speed up commissioning tasks.
- An engineer is able to perform commissioning task autonomously.
- Commission both devices and SCADA system at the same time.

Visualization & Control of Nearby assets

SCENARIO

- Operators are moving within a Plant or an industrial facility

BENEFITS

- Provide an immediate graphical interface for the asset.
- Avoid navigation through large SCADA graphics.
- Reduce installation cost, avoiding the use of single purpose HMIs
- Secured action according to user rights. No unauthorized tampering
- Allows control when outside of the control room.
- All Industries, Infrastructures and BMS applications.



· A SCADA application monitors numbers of connected equipment but some older generation equipment such as meters can't be connected to the system An operator with a mobile device scans a NFC or QR code with the device.

• Eliminates double entry as data recorded directly from the field device.

• They place their smartphone close to the GEO- tag. Their profile is compared with mobility server

• Integrate Access Control into the BMS system easily. Reduce the number of sub-systems.

· Possibility to easily segregate different zones with different access level credentials.

• The Project is in commissioning stage and the automation engineer is testing the SCADA system • Engineer enters an Bluetooth LE Beacon area or touches a NFC or scans a QR code. • Engineer immediately accesses the SCADA mimic related to their location can test system alone by forcing locally parameters on device and check reading on physical equipment and SCADA reading

All Industries, Infrastructures and BMS applications where automation system is being installed.

• They are facing a machine or equipment that has no HMI or operator Interface. • They scan the QR code or the NFC to visualize status and eventually control parameters if needed.



Mastering interfaces between #Humans #Systems #Connected things

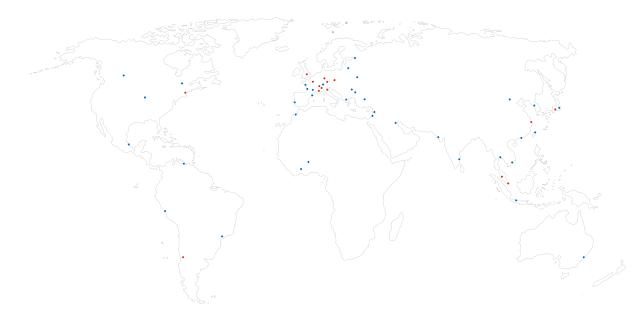


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