## **SOFREL PCWin2**

SCADA system for remote control and monitoring of telemetry networks





## SOFREL PCWin2: supervision that meets THE DAILY CHALLENGES FACED BY UTILITIES

## The SOFREL PCWin2 telemetry and SCADA supervisor is entering a new era..

With the migration of communication media towards all-IP and the development of communicating sensors, water networks and energy installations are becoming increasingly connected and generate more and more data to be analysed on a daily basis.

The installation of a supervision solution is now essential for any operator wishing to effectively manage and monitor their network remotely.

SOFREL PCWin2 has been designed to meet this challenge and allows operators to easily get to grips with a supervision solution to better handle data and effectively manage the performance of their network.





#### **CENTRALISATION** OF DATA



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## ADAPTABILITY TO WATER AND HVAC MARKETS





### **SECURE SHARING** OF DATA



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COTOOTOTAL





## **SOFREL PCWin2: simple and effective supervision**TO MANAGE AND MONITOR A TELEMETRY NETWORK

The use of the SOFREL PCWin2 Scada system offers many advantages to operators:

- · Centralisation of all data sent by devices
- · Data processing and storage
- **Display** of the overall state of the network and each site controlled by dynamic and mimic mapping
- · Graphical analysis of data by time or by business sector
- · Alarm management
- · Data sharing with other users or third-party applications

### **ANIMATED GRAPHIC MIMIC DIAGRAMS**

- Fully customisable view with a large library of business symbols available
- Display of animated components
- Displays of current digital values, suffixes, bar charts
- Data tables
- Control buttons

## **PRODUCT BENEFITS**

• Remote management of sites

HTML

- Intuitive control and customisation of mimic views
- Access to all views and data via PC, tablet and smartphone
- Reduction of on-site operations

## COMMUNICATION WITH REMOTE DEVICES



- Compatibility with all ranges SOFREL S4W, S4TH, S500, S500TH, BOX, LS/LT, etc.
- 2G/3G/4G **Communication**, RTC, ADSL, Ethernet, internet, radio, etc.

### DATA PROCESSING



- Advanced calculations covering current values
- Advanced calculations covering archived values
- Calculation formulas





### MANAGEMENT OF ALARMS AND STAND-BY DUTIES



- Annual schedules for assignment of stand-by duties
- Weekly recipient call sequence calendars
- Alarm transmission
- Logging of alarms, calls and acknowledgements

## CURVE CHARTS M

- Display of 1 to 6 curves in a single view
- Zoom to adjust framing and scope
- **Time lag** to track information over different time periods
- Export of curve points to Excel

### **OPERATION REPORTS**



- Automatic data export in Excel
- Periodic generation of reports (days, weeks, months, etc.)
- Inserting totals into rows and columns
- Automatic email distribution



## **ANDROID APP**



### **SOFREL Smart PCWin**

download from Google Play

- Viewing and acquisition of alarms
- Viewing current data statuses
- Positioning and modification of instructions
- Triggering of equipment queries

## **SOFREL PCWin2: a new business analysis module** FOR **DATA PROCESSING** PURPOSES

Western Water Ca





- Network overview
- **GPS tracking** of equipment
- Importing layers for displaying installations and areas
- Data display by geographical area and business analysis
- Immediate access to site data and summaries

#### **BUSINESSS ANALYSIS TABLES**



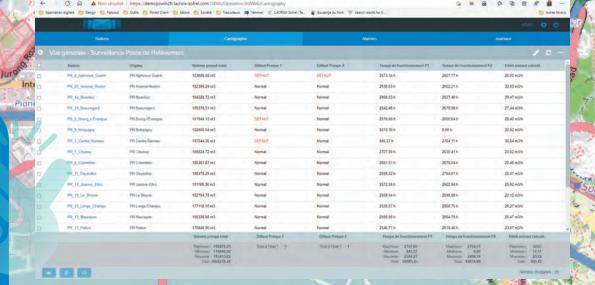
- Instantly compare the performance of your sites
- Identification of points of malfunction or under-performance
- Act on one or more instructions regarding a piece of equipment
- Go directly to the list of information and mimic diagram of a system to perform an investigation
- Share data from a business analysis

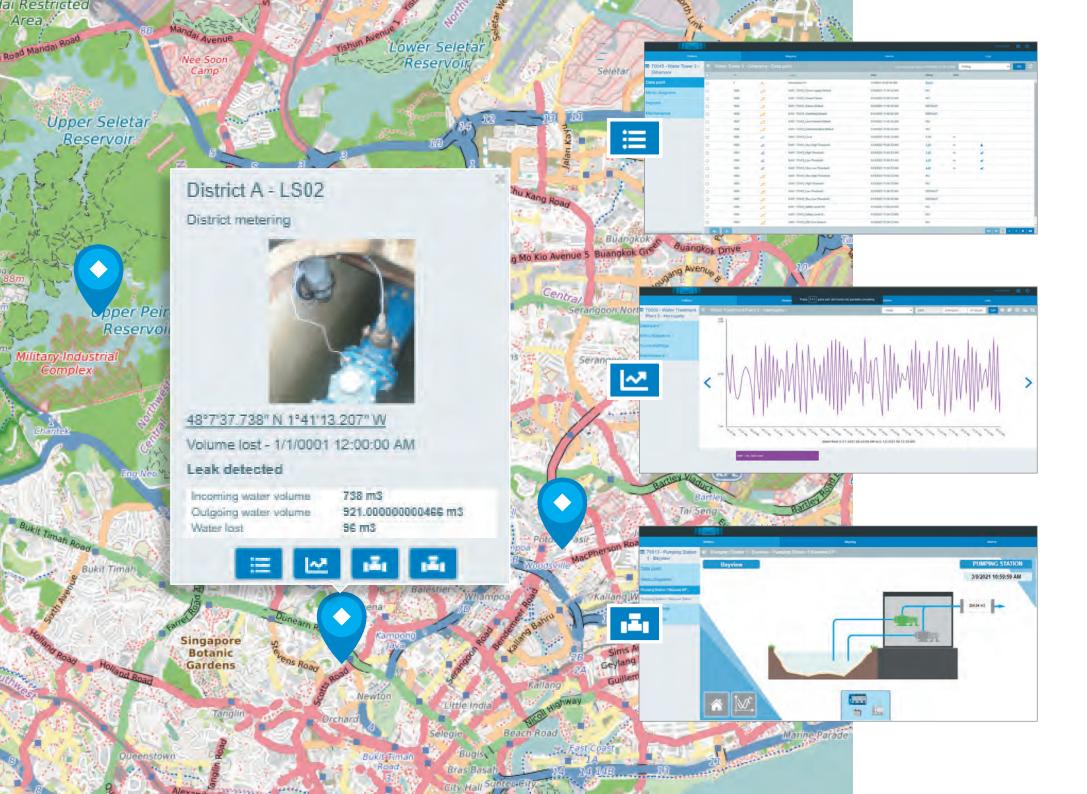
## **PRODUCT BENEFITS**

- The user is able to fully customise the business views of their choice
  - Type of business analyses
  - Choice of indicators

Immediate action regarding these indicators

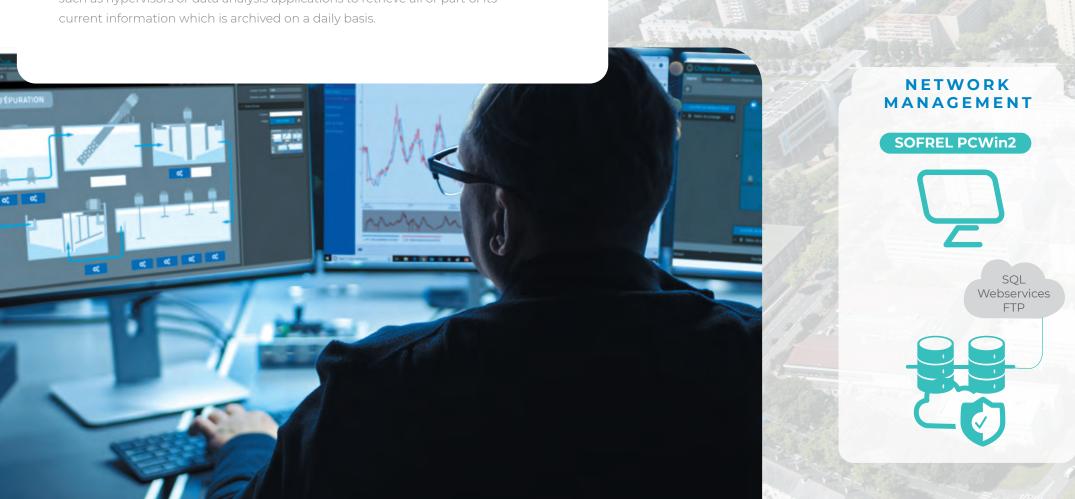
European patent application (EP20176925.4)

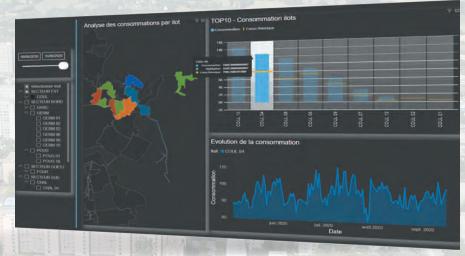




## **Opening to third-party applications TO SHARE TELEMETRY DATA**

In addition to centralising data from SOFREL-branded equipment, the SOFREL PCWin2 supervisory programme also enables third-party solutions such as hypervisors or data analysis applications to retrieve all or part of its current information which is archived on a daily basis.





#### **OPERATIONAL PERFORMANCE**

Hypervision



**Data Analytics** 



#### SMART CITIES

**Big Data** 



## SQL INTERFACE



- Extraction of archived data by an external application, using SQL queries
- Information accessible in different lists:
  - · List of **stations** managed by PCWin2
  - · List of **station data** and its characteristics
  - · List of **stored files** for a list of station information over a time interval (start, end)
  - · List of **alarm log** records over a time interval

### "WEB SERVICES" INTERFACE



- Consultation and management of current values
- **Reading** the following information:
  - · List of configured **stations** and their data
  - · Current values of a data list
  - · Current values of an **operational parameter**
  - · List of **alarms** present
- Write access to:
  - · Current values of an output information list
  - · Alarm acknowledgement

# **SOFREL FR400:** communication front-end processor FOR **EQUIPMENT NETWORK** AND **SOFREL TELEMETRY** AND **SCADA**



The SOFREL FR4000 front-end processor facilitates the **management of communication media** and allows for the implementation of **data sharing** between several SCADA System.

Compatible with all SOFREL telemetry equipment, this frontend processor retransmits all or part of the analogue and IP communications it receives to relay them via **a single IP interface** to the supervisors attached to it.

SOFREL FR4000 also manages all **communications initiated by supervision** wishing to query a remote terminal unit to retrieve the data and position a new instruction or operating parameter for it.

## **PRODUCT BENEFITS**

- Compatibility with all SOFREL telemetry equipment
- Possible interface with 4 SCADA system
- Scaled to manage up to 500 remote terminal units and a unlimited number of data loggers
- Management of the dual communication system with the remote terminal units
- Definition of functional rights for each connected SCADA system
- Ability to remotely modify a data logger configuration

Compatible with the SOFREL SG4000 server for the installation of **VPN tunnels** to SOFREL S500, S4W and S4TH remote terminal units, SOFREL FR4000 also supports the installation of **certificates** with SOFREL S4W and S4TH to authenticate communications and respond to **cyber security** issues.

The front-end processor is configured via a secure WEB interface.





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