ASA COMPAGNIE DE CRAPONNE
"De l'eau jusque dans vos terres"

IDENTITY CARD

Activity
Civil engineering

Date of creation
▶ **1554**: beginning of the General Work of Craponne with the authorization to take water from the Durance
▶ **2016**: l'ASA is created

Location
Salon de Provence (13)

GOALS

▶ Ensure transparent water policing.
▶ Anticipate interventions to prevent breakdowns and emergency calls
▶ Automate the measurement of water levels

RESULTS

▶ Water policing restored in 2 months
▶ Reduction of water theft
▶ Provision of real-time data and information on flow status with early warning of potential failure

SCOPE

▶ Equipment of 13 sensors
▶ Geographical area: the Durance

Water management 4.0: IoT at the service of the ecological transition

Pursuing the objective of verifying the proper distribution of water, Guillaume Casella, Director of the ASA, wanted to review the way in which water levels were measured, taking advantage of the benefits provided by the new technologies available. After several researches, IoT technologies quickly appeared as the answer to the economic constraint and technical needs. He therefore called upon Synox, integrator and publisher of ready-to-use and interoperable IoT solutions, to accompany him throughout this project.

THE CONTEXT

The ASA, Association Syndicale Autorisée Compagnie de Craponne, is a public establishment in operation since 2016 with the mission of managing the gravity or pressure works retroceded by the Œuvre Générale de Craponne (works dating from the 16th century), the water police as well as the execution of new or renovation works.

Its main objective is to put back in place a transparent water policy and to ensure a good management of consumption. Indeed, Guillaume Casella has noticed that the water management system is lagging behind other communities where everything is still done manually, without technological support. The canal guards must travel to the field to carry out the required flow controls. During their visits, they may notice water theft, but without being able to identify it more precisely. «While it takes time to invest in familiarizing our community with how IoT works, the benefits of automation to manage water levels speak for themselves.»

THE SOLUTION

«We made a first attempt, but the solution had proved to be too expensive and not communicating. So we turned to Synox on the recommendation of Objenious, a subsidiary of Bouygues Telecom.» The search for available technologies in this field therefore led Guillaume Casella to meet Synox, whose geographical proximity to ASA's headquarters facilitated the exchanges.

The ease of use of the platforms and the ability to manage all types of sensors and connectivity are key advantages to serve the project. The SoM2M#IoT platform was therefore set up to manage objects and connectivity, and SoDATA#Viz, to display data in the form of dashboards with customized alert settings. These platforms have made the difference thanks to their intuitive nature and simplified data visualization.

Internally, the SoM2M#IoT platform is used for provisioning and monitoring the Elsys ELT-2 Maxbotix sensors. As soon as these sensors run out of battery power, the teams are informed so that they can replace them to avoid a service outage. In the near future, the idea is to implement the mobile application to facilitate the work of the teams.

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We wanted to give ourselves the means to guarantee an efficient and transparent water policy by ensuring good management of its consumption. IoT quickly appeared as the answer to this need. It was Synox's collaborative and multidisciplinary approach that convinced me. The ability to listen to the teams and the proximity with the company allowed us to successfully move this project forward.
Guillaume CASELLA, Director of the ASA Compagnie de Craponne
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ABOUT
ASA DE CRAPONNE

The ASA Compagnie de Craponne is made up of private individuals, legal entities and individuals under public law. As a public actor, it acts on the scale of a territorial community.

In concrete terms, it will manage a large part of the irrigation water collected from the Durance, with the principal mission of good management and distribution of the water.

ABOUT SYNOX

As an integrator and publisher of IoT platforms, Synox assists companies and communities wishing to implement their IoT projects easily and securely, regardless of the objects and technology used.
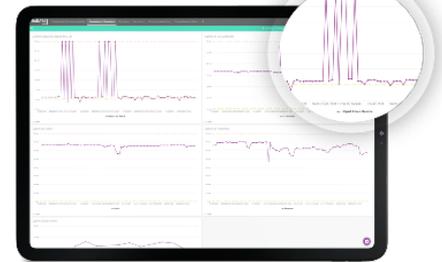
Its mission: to enable companies and communities to transform themselves by taking advantage of the potential of new IoT technologies, in complete security and with a view to sustainable development.

MORE INFORMATION

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SoM2M#IoT - Supervision dashboard for connected devices

SoDATA#Viz– Data visualization dashboard

Elsys ELT-2 Maxbotix sensor

The visualization platform provides customizable dashboards to monitor various indicators such as pressure, flow rate, temperature or quality, and to create customized alerts when thresholds are exceeded.It is now possible for Guillaume Casella to remotely check the level of the waterways, monitor flow rates and be notified in real time of the status of devices. When an alert is generated, the technicians know that they must intervene to check the equipment, repair the breakdown, or control the ASA member if the drawdown is too great.

RESULTS

Thanks to the limited cost of the sensor and the ease of implementation of Synox's IoT platforms, the Craponne ASA hopes to deploy about 20 sensors in the future instead of the 13 initially planned. Several problems have already been solved, including those related to water theft. Guillaume Casella points out that «the speed of return on investment has been beyond initial expectations.» The deployed solution allows Guillaume Casella to look ahead and he is already leaning towards a new project: the automation of the hammer valves that allow for the distribution of irrigation water. The IoT has thus enabled the community to modernize and add an innovative, high value-added service with the optimization of water management to serve the ecological transition.

> *Synox helped us regain a good water policy in just two months. We were able to identify water theft and solved no less than four problems. We are very pleased because we will be able to and are already looking at a new project with Synox: to move towards more automation.*
> *Guillaume CASELLA, Director of the ASA Compagnie de Craponne*