

Unified Management in Liguria



Thanks to Movicon all the different utilities have been united in an all- in-one and first of its kind remote control system.

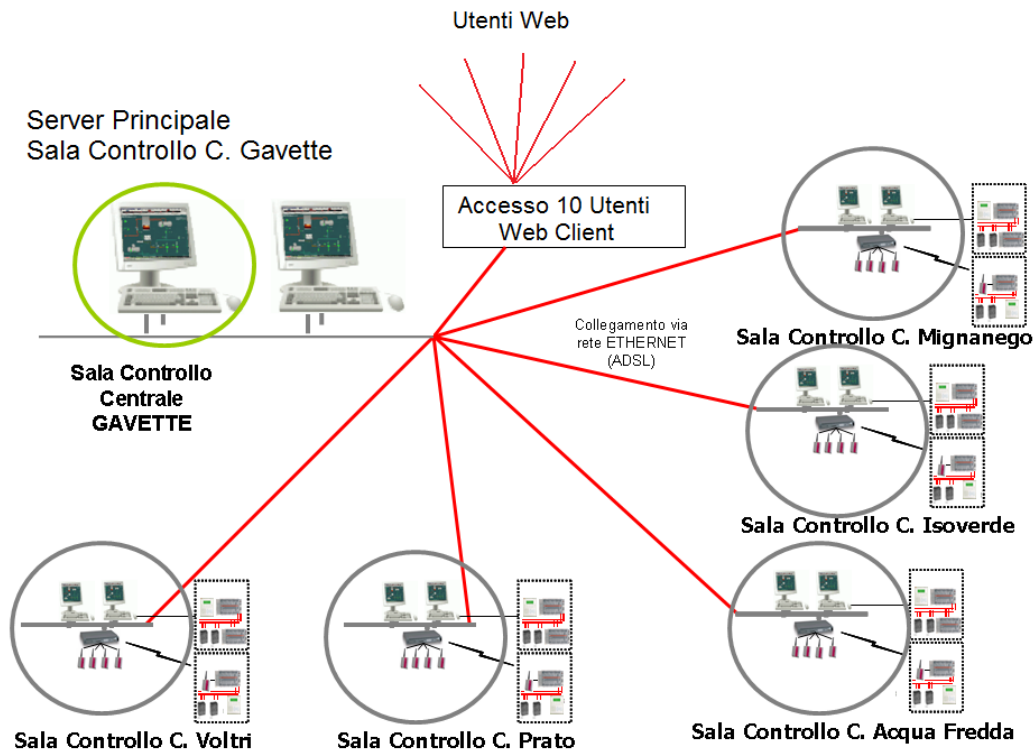
Mediterranea delle Acque, a company belonging to Gruppo Iride, is run and coordinated by Iride Water Gas company from Genoa established in spring 2006 when the three main potable water services of the Genoese ATO merged together: Genova Aqua, Ferrari Galliera and Nicolay waterworks. A national inheritance, steep in history, has been brought up-to-date with the new age of modern technology to supply integrated and efficient water services that are environment friendly and safe for

public health and consumption.

Mediterranea delle Aqua guarantees services for the whole community of Genoa and the 39 local municipalities of the ATO Genoese, supplying water to more than 700 thousand inhabitants.

The network and services

The newborn company's mission is to satisfy user requirements in Ligure by adapting to the increase in water consumption and offering top quality



company to administrate and maintain. The company engineers were given the task to find a solution with technology that was more suitable and sustainable using an all- in-one automation and remote control and monitoring system to manage all the potable water plants (purification plants, sewage systems, pumping stations, etc.) at contained costs. By taking into considering the correct handling of water supply throughout the different seasons of the year, the main system requirements focused on; free to use any supplier without

The Mediterranea delle Acque potable water remote control project of the Genoa district

services. Its waterworks deliver around a yearly rate of 100 m³ of potable water to Genoa and local towns, through a distribution network covering over 1,700 km.

It manages a total of five big water purification plants equipped with technologically advanced water treatment processes. Thanks to its numerous water sources deriving from local 48 springs and rivers varying in length, width and depth, the company is able to guarantee the required quantity of water supply to users in critical periods such as the drought season by using the necessary amount of water accumulated mainly during the winter period in reservoirs and treated in aqueducts of various diameters and material, to cover over a total distance of 1,700 km.

The results

When the three main water boards in Liguria merged together they each had been using different automation and control systems developed at different times for different situations and suppliers. This became a major problem for the newly formed Mediterranea delle Acque

being restricted to just the one, to be able to develop pilot projects with internal resources; quick to learn with userfriendly interfaces enabling staff to control, monitor, perform modifications and integrate data without any complications; permit economical evaluations, full control of eventual outsourcing to external companies. The new system also had to guarantee connectivity to the already existing PLCs, installed in positions in the different waterworks plant locations. The 'scouting' phase was set with a deadline. The best solution had to be found quick and needed to meet all these needs while offering quality services for customer support with training and technical assistance to help reduce time in developing and installing the new system once found.

The Mediterranea delle Acque engineers opted unanimously for the Movicon Scada/HMI software produced by Progea, together with the Rockwell Automation and Moeller Electric products for the their field PLCs. Infact all the new waterwork systems or those in the completion phase, use PLCs from the Rockwell MicroLogix family and the Easy

The first installation of this remote control system of the various plant locations has had very positive results, where the pumping process of various potable water lifting stations has been optimized by controlling that right amount of water flow from the various sources is kept constant to permit hydroelectric production and significant savings in total power used all round.

Mediterranea delle Acque Spa.



One of the gathering basins used for treating water.