CASE STUDY

PORT DE BINIC: PIER PORTS FOR POWER

RED LION®
a spectris company

ABOUT PORT DE BINIC

Port de Binic, France, is a small port located on a leisure harbor in Northwest France. It was granted municipal status in 1821. Historically, Port de Binic has served as a deep-sea fishing port and began to specialize in scallop fishing in the 1990s. Since then, the port has developed into a popular spot for yachting.

BINIC-ETABLES SUR MER

CUSTOMER

Port de Binic,
https://www.binic-etables-sur-mer.fr/

LOCATION

Port de Binic, France

OBJECTIVES

- To allow remote access to power control for the harbour master.
- Analyze power usage patterns during different seasons as the first step of cost evaluation.

CHALLENGES

- Ability to easily centralize information and display it in a scalable manner that offered local and remote access.
- Check whether power consumption fit the contract, and if it did not, an automatic reaction needed to send an SMS alarm.
- Remotely control the connection by a computer in captaincy and on mobile phone of the harbor master.
- Equipment needed to operate in the harsh environment of a marine harbour.

RESULTS

- Crimson® technology offered a perfect data acquisition solution.
- A complete solution from data collection, networking, and remote access.

THE PROJECT

Port de Binic was looking for a solution to monitor the power utilization by boat owners from a number of access points in its harbor. Their goal was to collect usage data so they could perform a cost analysis which would help identify potential areas for cost savings.

THE CHALLENGE

In this project, the harbour masters of Port de Binic wanted to easily centralize and manage power usage data and display it in a scalable manner, all while being able to access the information locally or via a remote device. They also wanted to make sure that the power consumption for each boat was aligned with their contract with the port. If it was not, the harbour masters wanted a SMS alert to automatically notify the harbour office. Their final requirement was the ability to provide a boat access to power either from a mobile phone or directly from the harbour master's office.

THE SOLUTION

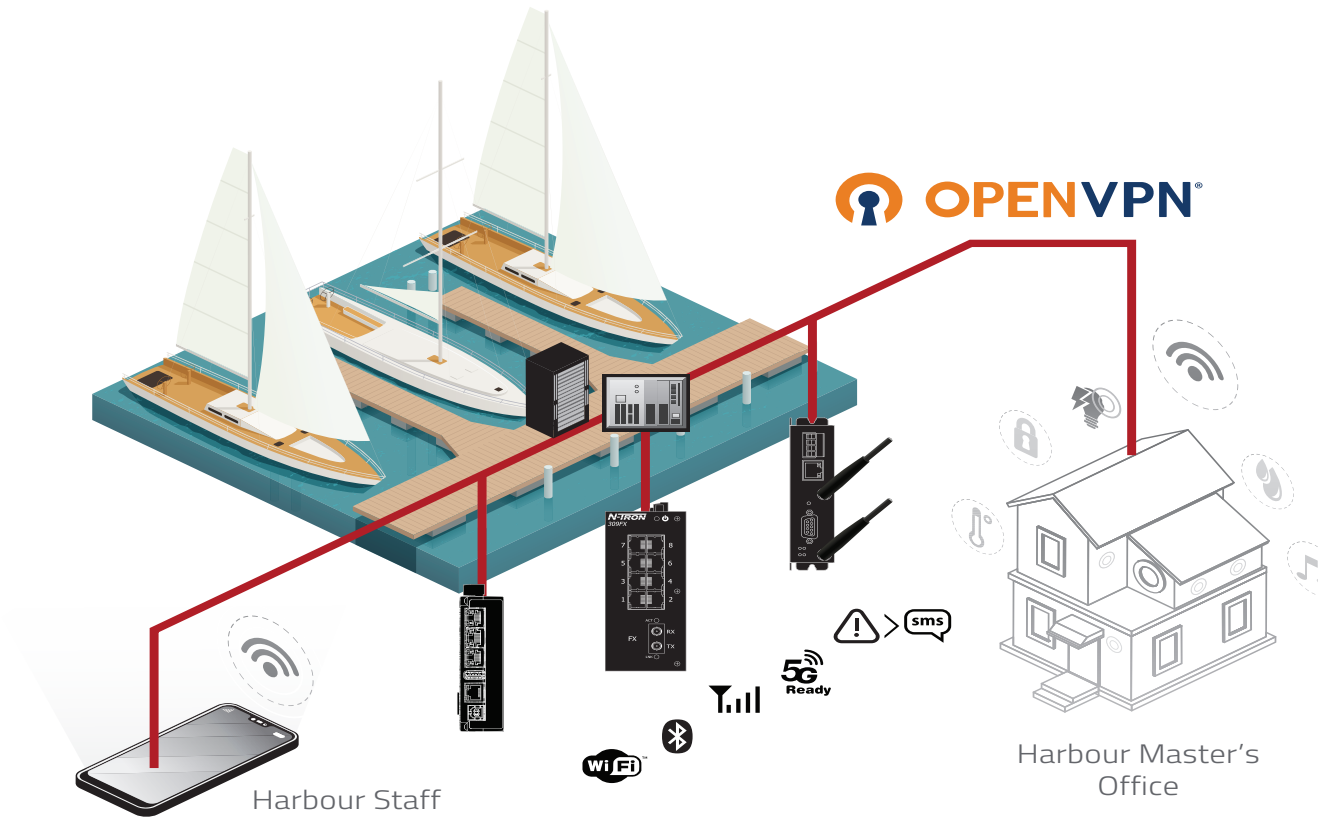
Through Binic's distributor, Tecnoland, the port was able to recruit project assistance from Red Lion Controls. The team evaluated the request and devised a solution that centered on its Crimson® automation software, which offers straightforward data collection, data processing, and visualization, and paired that with Red Lion's DA30D, N-Tron® 3xxFX-N switches, and SN 6901.

To acquire power usage data, Red Lion's team installed these products in cabinets located on each nine piers, each cabinet holding 50 electrical sockets along with three DA30D IIoT gateways. A micro PLC from Crouzet is used to control the sockets, and is also monitored by the Red Lion gateways. Further, Red Lion's N-Tron 3xxFX-N switches and SN 6901 mobile routers were used to build the networking infrastructure.

THE
RESULT

Because the data acquisition equipment was to be housed in outside cabinets located on the pier, Red Lion's recommendation of devices designed for use in rugged environments offered Port de Binic the durability needed for long-term success. Red Lion was able to provide a complete solution to meet Port de Binic's requirements using data collection, networking, and remote access products.

The implementation of Red Lion's solution now allows the port to monitor its power usage. This is the first step to identifying cost savings because the power consumption per boat can be remotely monitored and controlled.



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