

Pentair Deploys a Scalable Customized Solution to Connect, View, and Control Connected Products

eagle.io™ Enables Pentair's Clients to Remotely Monitor Key Quality Metrics to Predict Maintenance Needs and Improve Operations

JUMPING ON AN OPPORTUNITY

Pentair is a provider of smart and sustainable water solutions that help improve the quality of life for people throughout the world. Its water solutions span residential and commercial properties, as well as provide water management services to its clients around the globe.

Pentair's products and applications are wide ranging, and include remote control and monitoring of aquaculture products they deploy, to health monitoring of filters and automatic reordering, and potentially to convert standard product sales to services to generate recurring revenue.

Recently, Pentair identified an opportunity to turn a range of their traditional products into "connected products." To capitalize on this opportunity, the engineering team at Pentair sought a tool that they could use to rapidly build and test their connected product initiative with end users, and be able to iterate dashboards, notifications, and alarms to meet end-users' needs.

A CLOUD-BASED PLATFORM FITS THE BILL

After trying several solutions, Pentair turned to Bentley's eagle.io, a cloud-based platform that remotely monitors environmental sensors, to help them with sandboxing remote monitoring and control applications for a range of end benefits. Among them include centralized operations, predictive maintenance, and consumable monitoring.

For their clients in the ocean aquaculture sector utilizing the Sea Pen Aeration Systems, Pentair used eagle.io to give their clients the ability to remotely monitor key quality metrics, such as dissolved oxygen levels. They also used eagle.io to provide an endpoint for site operators to upload physically monitored parameters, such as invertebrate species and abundance data.

PROJECT SUMMARY

ORGANIZATION

Pentair

SOLUTION

Water Quality Monitoring

LOCATION

Global

PROJECT OBJECTIVES

- ◆ To rapidly build and test connected product initiative with end users.
- ◆ To iterate dashboards, notifications, and alarms to meet their end users' needs.

PROJECT PLAYBOOK

eagle.io

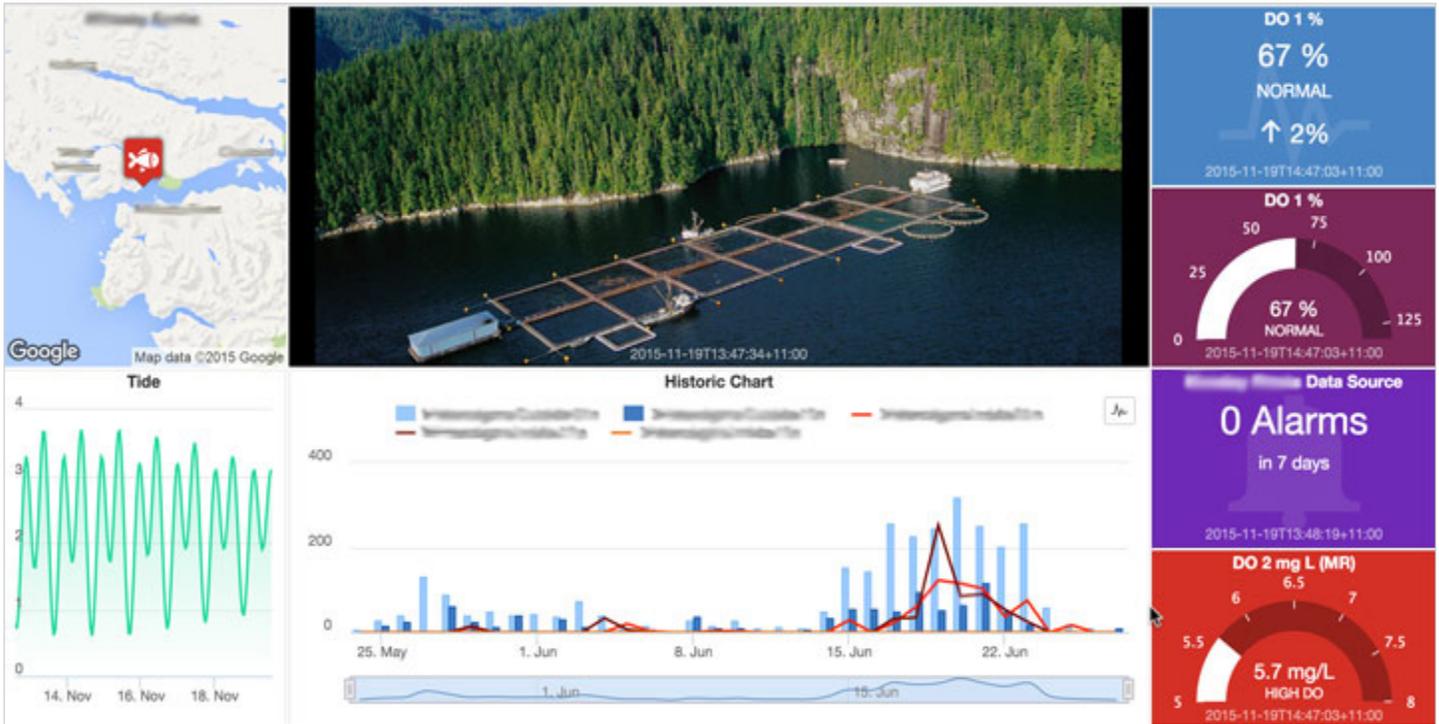
FAST FACTS

- ◆ Pentair provides smart and sustainable water solutions to help improve the quality of life for people throughout the world.
- ◆ Their products and applications are wide ranging, and include remote control and monitoring of aquaculture products they deploy.
- ◆ Using eagle.io, Pentair has been able to sandbox connected product applications with their clients in the food and beverage, aquaculture, pump, and valve markets.



“We’ve tried to achieve these outcomes with products produced by other large software companies. We’ve even shown them eagle.io and challenged them to match its ability... presently, they simply can’t.”
– Brian Boothe, Engineering Manager, Pentair’s Connected Products Initiative

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Screenshot of eagle.io dashboard used by Pentair aquaculture client.

Image courtesy of Pentair.

“We’ve tried to achieve these outcomes with products produced by other large software companies,” said Brian Boothe, engineering manager, of Pentair’s connected products initiative. “We’ve even shown them eagle.io and challenged them to match its ability to rapidly build dashboards, connect to monitor devices – presently, they simply can’t. [With eagle.io] I can be on the phone with a client—literally on the other side of the world—[and] discuss with them what they’d like to see on their dashboard, change it on my account and have it appear instantaneously in front of them.”

By deploying eagle.io, operators can review environmental data gathered from sensors in real time to take corrective action using the Pentair Aeration System, such as turning on aerators to cycle cleaner water deeper to flush out unwanted organisms like plankton.

Using eagle.io, Pentair has been able to sand-box connected product applications with their clients in the food and beverage, aquaculture, pump, and valve markets. eagle.io also provided them with a scalable custom solution to view and control connected products, such as those Pentair produces.