



REMOTE MAINTENANCE OF POWER STORAGE DEVICES

CLIENT OVERVIEW

Our client is a leading manufacturer of advanced power electronics for renewable energy and backup power. The client is headquartered in the U.S. but has a geographically diverse global customer base

KEY REQUIREMENTS

- The distance from the client to their customers drove up the time and costs associated with fixing device issues; it also resulted in higher device downtime, leading to rise in customer dissatisfaction
- Client was looking for a solution to monitor and fix device performance issues remotely while enabling customers to optimize power consumption from various devices such as invertors, UPS generators and charge controllers

KEY CONTRIBUTIONS

- We automated the collection of data from the devices installed in remote locations to Azure Cloud
- We developed a web application that displays the live energy flow and aggregated data dashboard along with device registration, profile and site management details
- We programmed a cache repository to be updated every 10 minutes – ensuring updated data in the repository generates triggers and controls the devices
- We developed a UI using Angular JS for rich user interaction; the UI enables admins and end users to control devices and power consumption through handheld device apps

KEY BENEFITS

- Remote monitoring and control enables the client to fix device issues before they are reported, thus reducing device downtime and improving customer satisfaction
- Significant reduction in the number of support tickets
- Value-added 'power consumption optimization' feature enables the client to gain competitive advantage and expand the customer base from 800 to 2000+

TECHNOLOGY STACK

- Angular JS
- Windows Azure
- DB
- .NET MVC



About Xoriant:

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