

SOLAR INVERTERS MONITORING SYSTEM

Remote Controlling and Monitoring of
Solar Inverters

Mastery in
Software
Engineering

FORTECH.





Key Facts

-  Industry: Internet of Things
-  Team Size: 6 People
-  Duration: 7 Years (ongoing)
-  Technologies:
 - .NET, C#, WPF,
 - DevExpress, SoftActivate,
 - InnoSetup, WebForms,
 - JavaScript,
 - iOS, Android
-  Services:
 - Software Development,
 - Software Testing
-  Trends: Industrial Automation

Highlights

- The software powers one of the most innovative and popular photovoltaic inverters worldwide.
- Smooth communication of the Fortech team with members of the client's team in a variety of roles, such as technicians, marketing people and product owners.
- Cloud-based monitoring solution that allows the user to access all the data from smartphone or tablet.



Solution

The product is a complete suite of software applications (desktop, mobile and web) for the control and monitoring of photovoltaic inverters in large solar energy production plants.

Its functions are, among others, to enable the configuration and control of devices, real-time error monitoring and data reporting (for example, statistics about the yield of the systems).

Connections to the devices rely on proprietary application-layer communication protocols that are based on standard transport-layer protocols such as TCP/IP over Ethernet, UDP over Bluetooth, Serial over USB, Serial over RS485.



Collaboration

Our customer is one of the most innovative producers of photovoltaic inverters worldwide.

The partnership between our companies focused on the development of a complex solution for the management of photovoltaic devices. This includes features such as inverter grouping into plants based on their network location, creating projects by importing logged data from the inverters and online system planning with automatic device selection, yield simulation, and energy balance.

We ensure the full delivery of the solution, from analysis and design to implementation, software testing and integration of third-party products, in a hybrid Scrum-Waterfall approach and direct contact with technical and business experts from the client's side.

Client Benefits



CONVENIENCE:

Easy real-time accessibility for business users via the web and mobile applications.



COMPATIBILITY:

With different firmware versions for devices that offer various features.



DYNAMIC UI:

That uses the particularities of the detected device to ensure compatibility.





ABOUT FORTECH

Fortech is a Romanian software development company headquartered in Cluj-Napoca. Employing more than 700 software engineers and growing, Fortech is one of the largest software outsourcing providers in the region, recognized by Deloitte and EY as one of the fastest growing technology companies in Central and Eastern Europe.

Fortech provides full stack custom software development and software testing services, with focus on solutions for Automotive, Healthcare, eCommerce and the Internet of Things. Since 2003, two hundred clients chose Fortech as their software engineering partner, among which T-Systems, Swisscom, Symantec, Pfizer and Renault.

For more information, visit www.fortech.ro.

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