OEM Brand-labeled Case Study

Brand-labeled SCADA platform for Electric Utility market with custom protocols and Lean Automation components.
Industry: *Utilities (Electric Power)*

Quick Facts

Attribute	Value
Customer	Spin Automation (OEM Partner)
Product	Action.NET (brand-labeled FrameworX)
Markets	Brazil, India, Canada, and others
Focus	Electric Utility and Alternative Energy
Experience	25+ years in Electric Utility industry
Deployments	400+ utility deployments worldwide
Protocols	IEC-61850, DNP 3.0 (custom developed)

The Challenge

Challenge: Create an industry-specific product software offering in the Electric Utility and Alternative Energy market.

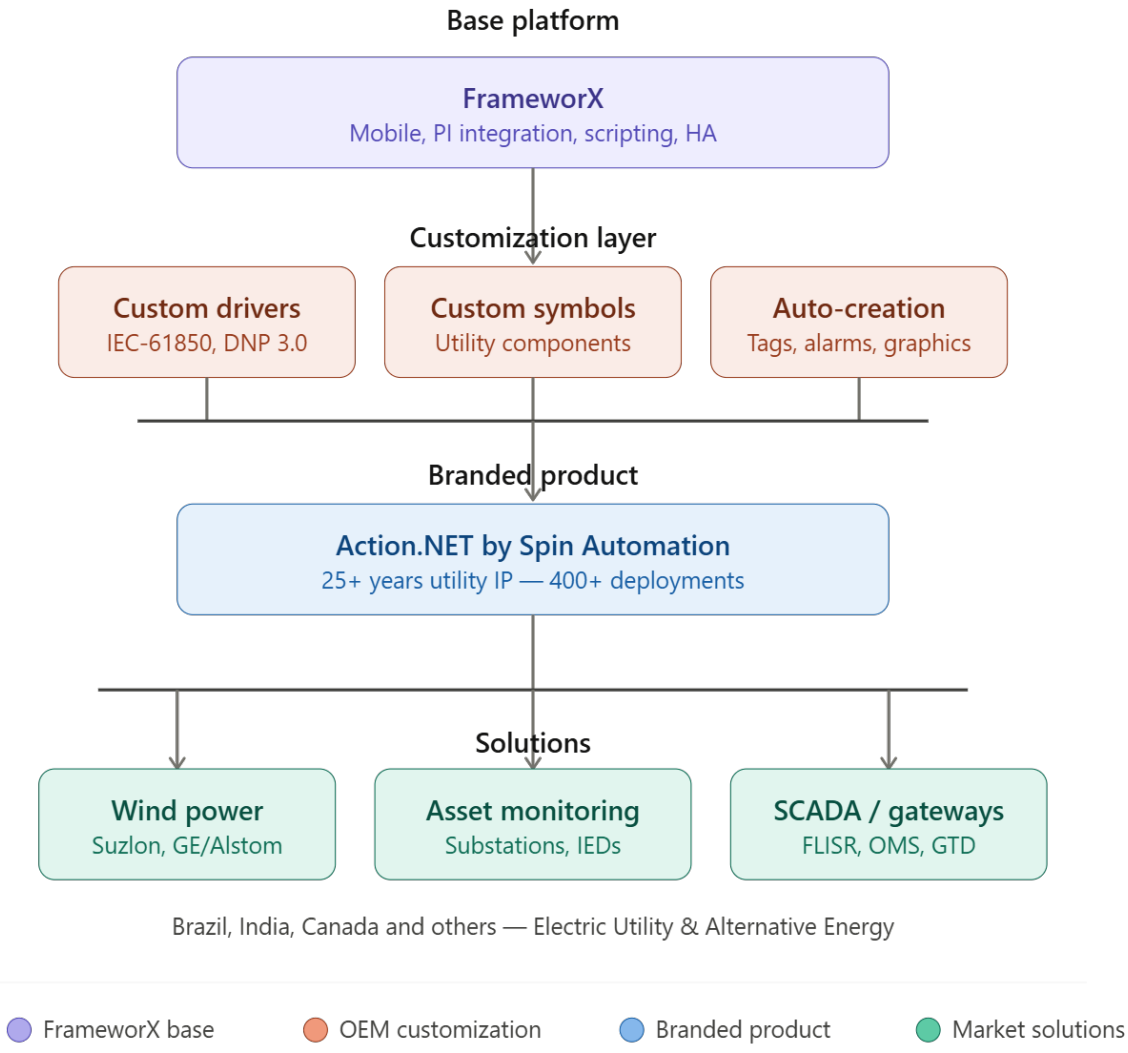
Specific pain points:

- Needed to renew and update software product line
- Considered writing own product from scratch
- Required open, robust, and flexible software framework
- Needed intrinsically secure supervisory control product on modern technology
- Required encapsulation of 25+ years of Electric Utility intellectual property
- Electric Utility specific protocols (IEC-61850, DNP 3.0) needed

Impact: Developing in-house would take longer, cost more, and provide less functionality than leveraging an existing platform.

The Solution

Architecture



Component	Implementation
Base Platform	FrameworX (brand-labeled as Action.NET)
Custom Symbols	Industry-specific component library
Custom Drivers	IEC-61850, DNP 3.0 via Driver Toolkit
Components	Lean Automation reusable modules
Auto-Creation	Tags, Alarms, Device Points, Historian, Graphics
Analytics	Real-time industry-specific framework

Market Applications

Solution	Description
SCADA	Supervisory control for utilities
Gateways	Data aggregation and forwarding
FLISR	Fault Location, Isolation, Service Restoration
OMS	Outage Management System

GTD	Generation, Transmission, Distribution

Lean Automation Components

Wind Power Component:

- Monitors wind farms
- Supports Suzlon S95 and GE/Alstom ECO-122 turbines
- Extensible for additional turbine models
- Generate wind farm monitoring with few clicks

Asset Monitoring Component:

- Fast generation of asset monitoring applications
- Monitors substation transformers via IEDs
- Gateway functionality to centralized asset management
- HTML5 screens for local or remote access
- Multi-manufacturer IED support

Customization Capabilities Used

- Custom symbols and complex reusable components
- Auto-creation of Tags, Alarms, Device Points, Historian, Graphics
- Software framework for real-time industry-specific analytics
- Driver toolkit for new protocol development

Built-In Features Leveraged

Feature	Application
Mobile/HTML5 Displays	Remote substation access
AVEVA PI System Integration	PI and PI Asset Framework support
Multi-Language Scripting	C#, VB.NET, JavaScript, Python
Project Management	Built-in audit trails
Security	High availability support

Gateway Resilience

- Store-and-forward for communication failures (weeks of data)
- Failure identification routines for IEDs and sensors
- Local and remote HTML5 access

Key Enablers

FrameworX capabilities that made this solution possible:

Capability	Application
OEM Brand Labeling	Action.NET product identity
Driver Toolkit	IEC-61850, DNP 3.0 custom protocols
Custom Components	Encapsulate 25+ years IP in reusable modules
Auto-Creation	Tags, alarms, points, historian, graphics
Tatsoft Technical Support	Custom development assistance
Standard Functionality	Mobile, PI integration, scripting, HA

The Results

- **Quick Time to Market** — Faster than developing in-house product
- **Greater Functionality** — More built-in capability than originally planned
- **Lower Cost** — Cheaper to customize than to develop from scratch

- **400+ Deployments** — Utility installations worldwide
- **Technology Partnership** — Ongoing platform enhancement support
- **IP Encapsulation** — 25+ years of Electric Utility expertise in reusable components
- **Lean Automation** — Generate wind farm or asset monitoring solutions with few clicks
- **Future-Proof** — Platform continues to enhance product offerings

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Resources

Download case study: CaseStudy_OEMBrandLabel.pdf

This case demonstrates OEM brand labeling with custom protocol development and Lean Automation components for Electric Utility market.

In this section...
