

# Smart Energy System Services for Smart Energy Vendors



In an emerging market like Smart Energy, early products set expectations – positive or negative. That’s why it’s critical to be sure your products are first and foremost of the highest quality (no defects, great user experience, etc.). But they must also comply with relevant standards, work within smart grid systems and interoperate with other products. As a systems and software developer and vendor, you want to deliver leading edge, outstanding products that become the “standard” for your segment.

QualityLogic is the industry leader in smart energy software quality assurance, standards development, interoperability and testing solutions, offering unparalleled quality assurance, smart grid communications, smart grid software and domain expertise.

QualityLogic’s software QA and interoperability experts help you understand, create, validate and certify interoperable Smart Energy products and solutions.

The Smart Energy industry has made great strides in establishing standards to promote product interoperability. But the selection of technology standards is just the beginning.

Challenges you’ll face include:

- Developing the highest quality solutions
- Evaluating and selecting standards to use
- Certifying interoperability of third-party products with your platforms

- Getting your standard platforms adopted by the market
- Training your team how to optimize the implementation of selected standards
- Selecting the right validation and certification processes and tools

## System Interoperability Workshops

- Understand and implement new communication standards in products
- Develop and execute test and certification procedures

## Testing for Products and Platforms

- Test planning, test tool development, test execution, analysis and reporting

## Test Tool Development

- Creation of custom test tools and platforms to accelerate testing and deployment

## Standards, Technologies and Tools

### Leverage our expertise in smart grid communications standards:

- Open ADR
- IEEE 2030.5 (SEP2)
- IEC 61850
- SunSpec
- MultiSpeak
- IEC 15118
- Green Button
- OCPP, and more

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## Technologies

- Demand Response/Load Management
- DER Management
- Transactive Energy

## Tools

- OpenADR Certification Test Tool
- Cloud Test System for OpenADR VENS
- IEC 61850 Client Conformance Verifier, IEC 61850 Virtual Server
- IEEE 2030.5 Ad Hoc Testers, IEEE 2030.5 Functional Test Suites, IEEE 2030.5 Conformance Test Program

## Smart Energy System Services Leadership

### **Member and Standards Contributor to:**

- OpenADR Alliance
- Consortium for SEP 2 Interoperability (IEEE 2030.5)
- GridWise Architecture Council, Transactive Energy Framework
- UL Advanced Inverter Testing and Certification Program (UL 1741 SA)
- IEEE Committee DER Interconnection Standard (IEEE P1547.1)
- EPRI/California Energy Commission Smart inverter Project
- Founded and Chaired Smart Grid Northwest

## Contributions to the Industry

- **OpenADR Alliance**
  - A and B profile definition schema and specification editor
  - Wrote OpenADR 2.0 A, B Test Specs
  - Edited “OpenADR DR Program Guide”
  - Developed OpenADR 2.0 A and B Test Harnesses
  - Chair, Marketing Working Group
  - OpenADR Implementation Workshops
- **Consortium for SEP 2 Interoperability**
  - Contributor to CSEP PICS, Test Spec
  - CSEP Test Harness Qualification Program
  - Implemented IEEE 2030.5 Accelerator Programs for Interoperability
  - Developed Conformance Test Program
- **EPRI/California Energy Commission Smart inverter Project**
  - CEC IEEE 2030.5 Open Source Client Project
  - EPRI CEC Smart Inverter Communications Demonstration Project
- **Industry Events**
  - Initiated 1st and 2nd Annual IEEE 2030.5 Symposia
  - Founder of the International Transactive Energy Conference
  - Industry papers and articles – see [www.qualitylogic.com](http://www.qualitylogic.com)

## For More Information

Visit [www.QualityLogic.com](http://www.QualityLogic.com) or call +1 208-424-1905

