



PREVENTING DER CHAOS

Assistance for Consultancies

QualityLogic is the industry leader in smart energy standards development and interoperability testing solutions, offering unparalleled communications, software and domain expertise. We support Consultancies with our deep expertise to assist you in defining, procuring, developing, certifying and implementing solutions for Utilities to support the interoperability of smart energy products, devices, software, and systems.

Utilities and Smart Energy vendors face daunting challenges in evolving the grid to accommodate the rapidly changing systems environment. Part of the solution is:

- Specifying standards-based products to increase the potential vendor population
- Reducing system integration costs
- Increasing system reliability and resiliency
- Reducing time to deployment

QualityLogic's grid-edge communications expertise gives Consultancies an advantage when it comes to understanding and best

recommending solutions that depend on DR and DER communications.

In-the-field interoperability requires understanding how best to use and specify standards across

a variety of applications. The industry has made great strides in establishing standards to promote product interoperability. But the selection of technology standards is just the starting point. Additional challenges you'll face include:

- Assessing interoperability of products based on a standard
- Understanding how best to specify and benefit from a selected standard
- Training your team how to adopt and deploy selected standards

QualityLogic is the official developer of the OpenADR Certification Test tool and the leading vendor of IEEE 2030.5 test and certification tools. These tools also support the new IEEE 1547.1-2020 Interoperability requirements.

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- How to leverage an industry eco-system based on implementing a particular interface or communications standard

QualityLogic leverages its deep DER communications protocol expertise and robust testing and quality assurance infrastructure to provide Consultancies with technical education and access to software testing and certifying solutions. QualityLogic also acts as a resource to Consultancies by providing technical education to Consultancy Utility partners, tools for Utility integration and commissioning support, and a commercial testing lab for software testing and Quality Assurance.

Products and Services for Consultancies

QualityLogic uses its expertise to educate Consultants through our training workshops. The software Test Tool solutions we design and make available to industry stakeholders also leverage this world-class expertise.

Here's how we get your team up and running to best understand the landscape of emerging grid-edge communication protocols and prepare you to advise Utilities on the management of DR and DER on the grid:

- Protocol overview training
- Specific protocol training
- Analysis of use cases
- Interoperability test tools
- Custom test tools

Products and Services as Resources for Consultant Utility Partners

New requirements around grid interconnection for Distributed Energy Resources requires interoperability testing and field commissioning. QualityLogic's tools are outfitted to handle these requirements and more. Here's how we support Utilities on this front:

- IEEE 1547-2018 required interoperability
- Automated UL 1741 testing
- Field commissioning of DERs

Our test labs have decades of experience building out a robust testing and quality assurance infrastructure for our customers. QualityLogic can provide software testing and integration services needed to run a modern Utility. We enable our Utility customers to deliver quality by:

- Designing and implementing a test program
- Helping Utilities establish their own test labs
- Testing software-based solutions

QualityLogic's OpenADR, IEEE 2030.5 and DER protocol training workshops have been presented to hundreds of vendor, utility and consultancy technical staff

About QualityLogic

QualityLogic's industry-leading test tools, training, and consulting services are major contributors to standards and certification program development for smart energy products. Our test tools certify and ensure interoperability of software products and devices used in automated demand response (ADR), integration of distributed energy resources (DER), and substation automation (DA).



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