

# DATA SHEET OpenADR Test Tools

Developing your OpenADR 2 implementation can be challenging and time-consuming. As the official technical support partner to the OpenADR Alliance, we see challenges every day that can slow development if they are not quickly resolved.

## **OFFICIAL TEST TOOL AND TRAINING PARTNER**

We are proud to be the official Test Tool and Training partner of the OpenADR Alliance. QualityLogic designed, developed and maintains the OpenADR Test Harness, and we are intimately familiar with the OpenADR 2.0 specification. Our smart energy experts authored the OpenADR Test Specification and PICS, contributed to the profile specification, and supported the Alliance in the development of the "OpenADR Implementation Guide.".

## **OPENADR TEST TOOLS & SERVICES**

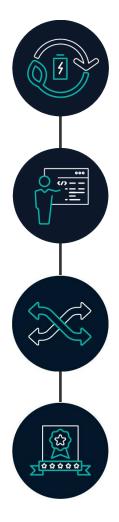
We offer a number of products and services to help with your OpenADR 2.0 efforts:.

### **OpenADR Fast Track Package**

This bundle includes the test products, training, and development assistance you are most likely to need during the development process, in a discounted package. This approach eases your financial burden while making each element available when you need it.

You can schedule the actual delivery of services and test systems as you need them, over 12 months.

If you are developing with OpenADR, you can leverage the vast knowledge accumulated by QualityLogic to get quick answers to technical questions and keep development projects on track.



The package includes:

- OpenADR 2.0 Development and Certification Test Harness
- OpenADR 2.0 Workshop
- Technical/Development Support

#### **OpenADR Certification Test Tool**

You can validate your product's conformance to the OpenADR certification requirements during your development process and prior to submitting your device for certification.

The OpenADR Test Tool is exactly the same one used by authorized OpenADR Certification Test Labs worldwide.

Each test case in the Certification Test Tools has a defined a set of prerequisites, a test scenario consisting of a sequence of VEN/VTN message exchanges, and an expected result. Execution of a test scenario will result in payload exchanges between the device under test and the Test Harness.

Several forms of analysis are performed on this payload exchange. We look at:

- Message interaction patterns are as expected, including correct response and request payloads
- Properly formed XML
- Conformance to OpenADR 2.0 schema
- Specific conformance rules defined in the OpenADR Profile Specification are followed
- The intent of the test case is met

The OpenADR 2.0 Demand Response Program Guide suggests OpenADR best practices for VTNs and VENs to help standardize the implementation of specific DR programs. We've implemented 16 new DR Guide test cases in the OpenADR Test Harness and you can use these to test specific DR Program designs.

#### **OpenADR Development Support**

Support from our OpenADR experts gives your team access to our in-depth knowledge: they get quick answers to technical questions to keep development projects on track.

Implementers get answers to questions that arise about implementation challenges.

Don't lose critical weeks getting up to speed on the technology or the Certification Test Tool. QualityLogic offers combined OpenADR 2 Development and Test Tool Support Contracts that easily pay for themselves in saved time and product development.

#### **OpenADR Workshops**

Choose from two workshops for OpenADR 2.0:

- OpenADR Developer's Workshops provide a conceptual and detailed technical understanding of what OpenADR 2.0 is and how it works. Your team will become familiar with OpenADR 2.0 technology; Certification Profiles a and b; the conformance certification program; and the pre-certification tests and tools. The workshop illustrates how OpenADR can automate typical utility DR programs.
- OpenADR Implementer's Workshops focus on using OpenADR 2, covering high-level and detailed views of features and functions, and DR program design and deployment issues.

Find out more, and purchase OpenADR 2.0 test tools, support, and training from our website at <u>https://www.qualitylogic.com/store/</u>.

Discover why so many inverter manufacturers, companies, and labs rely on QualityLogic's DER protocol expertise. Contact us today.

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