Webinar Q&A

EXPEDITE UL 1741 SB CERTIFICATION & TESTING

On March 28, 2024, QualityLogic held a webinar to provide the latest updates on IEEE 1547.1 and UL 1741 SB certification and testing requirements as well as the company's 1547.1 test tools. These are answers to the questions that came up during the presentation.

1.   Do you have any webinars or videos showing testing tools you have using IEEE 2030.5 for communication? Or just any material showing the configuration of IEEE 2030.5?

Yes, we have done webinars about our IEEE 2030.5/CSIP test products and training and they are available on our website. We're happy to have a follow-up discussion to review what's available, just email smartenergynews@qualitylogic.com.

2.   In region like Asia, do you have partners or looking for partners to do product testing?

We're happy to have follow-on discussions. Please contact us at smartenergynews@qualitylogic.com.

3.   Can you mention the specification of the smart inverter please?

The smart inverter used during the demo is a 3 phase inverter that supports SunSpec Modbus 700 models. As we are under NDA for this unit, we cannot disclose anything further.

4.   Is the smart inverter in this case a IEEE 2030.5 client or server?

The smart inverter supports Modbus protocol and not 2030.5. If it were a 2030.5 implementation, the inverter would be a 2030.5/CSIP client implementation interacting with a utility server.

5.   Can I replicate/dowload the settings (to include equipment and test ranges) of one QL suite on one machine to a different QL suite/machine?

Yes. Please contact us through our support portal for further assistance.

6.   Does the test tool support energy storage inverters? For example, test of a frequency-droop curve in which the inverter starts charging for high frequency.

Yes. For all inverters that has a bidirectional requirement, our test tool has specific tests that support them for functions like volt watt, frequency droop and watt var.

7.　Can your tools be used with a real grid instead of a grid simulator? And whats the maximum size of units that can be tested?

For 1547/UL 1741SB compliance testing, testing requires changing the grid voltage and frequency so that the DUT can react to those events accordingly and prove it meets the safety requirements in the 1547 standard. There is no size limit to what the QL test tool supports. We have had 1MW inverters to 350w inverters both use the test tool for certification.

8.　Has your product been used to test other devices than converters? For example, synchronous generator based power generation modules (powered by a gas engine, gas turbine, diesel, engine…)

For grid-tied testing which is what IEEE 1547 / UL 1741 SB covers, yes these other types of systems can be used with our product. The application of how it is used may be different due to the different type of device under test.

9.　Regarding commnunication protocols, must units be able to communicate with all 3?

DER must support at least one protocol. Not all 3.