

## DATA SHEET

# IEEE 1547.1 Test Tools & Fully Automated Data Analysis

**IEEE 1547.1-2020 and UL 1741 SB have driven the DER industry to formally standardize its communications interactions with grid operators.**

## A COMPLETE SOLUTION

QualityLogic's complete IEEE 1547.1 Test Tool solution includes testing for IEEE 2030.5, SunSpec Modbus 700, and DNP3, all required interoperability tests, type tests, and the automation of the equipment required to perform the IEEE 1547.1 based tests.

The most important value of the toolset is the automation of the IEEE 1547.1/UL 1741 testing process. Current UL 1741SA testing can take weeks of time to complete all the set-up, testing, and analysis required and the updated UL 1741 SB testing is expected to take even more additional time. By automating much of the process using QualityLogic's 1547.1 test tools, significant time savings can be realized and your product can get to market faster.

## 1547.1 COMPLIANCE TESTING SOLUTION COMPONENTS

### Interoperability (Section 6 of IEEE 1547.1-2020)

IEEE 1547-2018 designates three acceptable protocols that can be used to validate the DER system for interoperability: IEEE 2030.5, IEEE 1815 (DNP3) or SunSpec Modbus.

There are several categories of interoperability tests, including Nameplate Data Tests, Configuration Information Tests, Monitoring Information Tests, and Management Information Tests. QualityLogic's 1547.1 Test Tools automate all of the Interoperability testing for all three protocols.

