



WCI ISA100 Wireless Certification Engineering Services

Certification Services

Centero offers various certification, device interoperability and debugging support engineering services to customers interested in certifying ISA100.11a and WirelessHART products

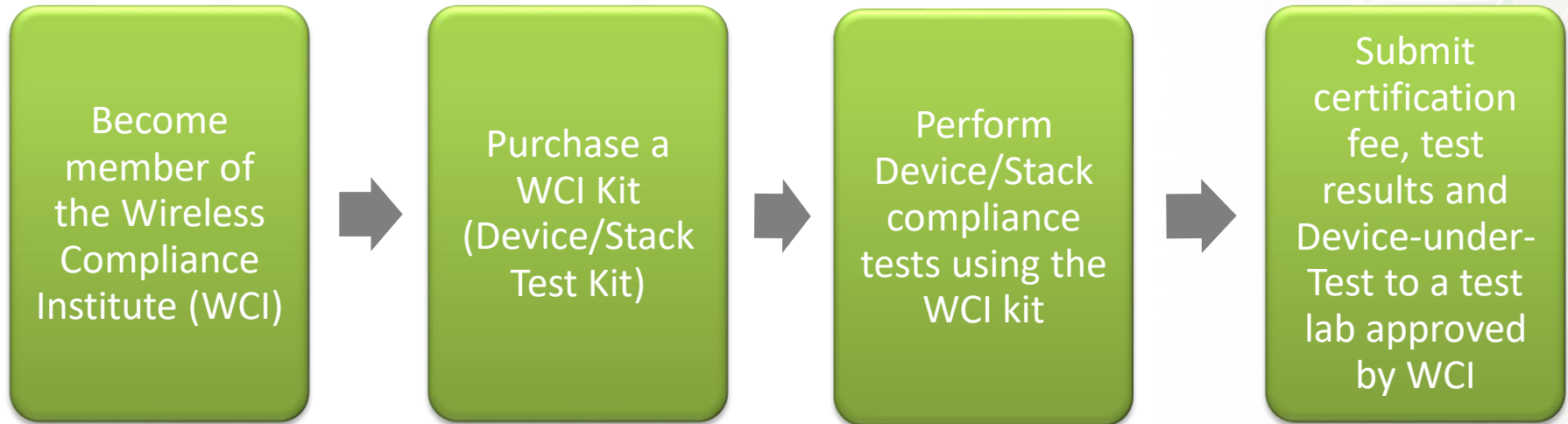
Focus is on helping customers swiftly obtain WCI (Wireless Compliance Institute) ISA100 Wireless certification reducing their time-to-market

Vetted team of experts with in-depth domain knowledge and experience with ISA100 Wireless technology

Typically requires cross-disciplinary expertise – firmware and hardware engineering support

Centero's engineers were closely involved in the architecture and development of the WCI ISA100 Wireless certification program

WCI ISA100 Wireless Compliance Steps



ISA100 Wireless Field Instrument Certification Requirements

Testing Requirements

Test	Description	Comments
WISA module wireless- PHY compliance	IEEE 802.15.4 compliance tests Wireless compliance test results (FCC, ETSI etc) Antenna radiation patterns	Provided by wireless module manufacturer (Centero) – except antenna radiation pattern
Device Test Kit	Run full Device Test Kit tests	Requires active WCI DTK GEN (Device Test Kit) license

Testing Tools Needed

Tool	Description	Cost
DTK GEN2	Device Test Kit that assures compliance and certification to the ISA100.11a-2011 (IEC 62734) standard. <u>Starting 2020 it is WCI's policy that compliance to GEN2 of the standard is mandatory for all new field instruments.</u>	\$12,500
DTK GEN1 (optional)	Add on to the DTK GEN2 above. Instrument vendors can also optionally ensure compliance/certification to the ISA100.11-2001 (GEN1) standard. This ensures compatibility when deploying with GEN1 ISA100 Gateways (existing deployments and most deployments in 2020 – 2021).	\$2,000

ISA100 Wireless WCI Field Instrument Certification Fees

Description	Description	Fee
WCI Lab Fee	Once logs and a two (2) DUTs are submitted, the WCI labs run tests to ensure that field instruments meet the certification requirements. Typical duration is 3-4 weeks.	\$3,000
WCI Registration fee	Product/device registration fee.	\$3,000
TOTAL Charged by WCI		\$6,000

ISA100 Wireless Pre-Certification Basic

Description and Tasks

- **Includes the following:**
 - Product setup and configuration
 - Compliance testing of ISA100 Wireless field instrument
- **Deliverables:**
 - Detailed test reports
 - Log investigation and recommendation for firmware changes
- Will use Centero's licensed ISA100 Wireless compliance testing tools – hardware, software and firmware
- Assumptions:
 - Product is ready for test suite needs (hardware, firmware)
 - Will use Centero's licensed ISA100 Wireless compliance testing tools

Duration	1-2 Weeks
Cost	Contact Centero

ISA100 Wireless Pre-Certification Premium

Description and Tasks

- **Includes the following:**
 - Product setup and configuration
 - Compliance testing of ISA100 Wireless field instrument
 - Investigate and fix issues in source code
 - Re-testing as needed **until all tests are passed**
 - Includes 100 hours of cross disciplinary engineering support (hardware, firmware, software, compliance expertise)
- **Deliverables:**
 - Detailed test reports
 - Firmware files (source and object code) that includes necessary fixes
- **Assumptions:**
 - Product is ready for test suite needs (hardware, firmware)
 - Requires access to application processor source code
 - Will use Centero's licensed ISA100 Wireless compliance testing tools

Duration	3 - 4 Weeks
Cost	Contact Centero

ISA100 Wireless Turnkey Certification

Description and Tasks

- **Includes the following:**
 - Product setup and configuration
 - Compliance testing of ISA100 Wireless field instrument
 - Investigate and fix issues in source code
 - Includes an unlimited number of hours of cross-disciplinary engineering support (hardware, firmware, software, compliance expertise)
 - **Re-testing as needed until all tests are passed**
 - Prepare documentation, reports and log package for submission to WCI
 - Interact with WCI certification team until product receives certification/registration
- **Deliverables:**
 - Detailed test reports
 - WCI ISA100 Wireless certification package submitted (reports, documents, logs, etc)
 - Firmware files (source and object code) of certified/registered field instrument
- **Assumptions:**
 - Product is ready for test suite needs (hardware, firmware)
 - Requires access to application processor source code
 - Will use Centero's licensed ISA100 Wireless compliance testing tools for testing and submission – but customer needs to own a DTK with a valid license (this is a WCI requirement)

Contact

For additional information please visit

www.centerotech.com

or contact us at

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