Smart Laboratory
Instrument Control Framework

Overview
A framework to simplify communication with laboratory instruments and facilitate powerful, automated testing scripts.

- Easier to use than traditional lab software like LabVIEW or MATLAB for instrumentation
- Compatible with any instrument from any vendor
- Works on Windows, Mac and Linux
- Easy to add new instruments
- Powerful object-oriented software architecture that is easy to learn

Hardware
- Connection to Ethernet Network for remote control
- Adapters for RS-232, RS-485, CAN lab instruments
- Portable and compact size

Supported Instruments
Any instrument with a remote control interface can connect to the framework, including:
- Multimeters
- Oscilloscopes
- AC/DC Sources
- Electronic Loads
- Signal Generators
- Logic Analyzers
- Environmental Chambers
- Spectrum Analyzers
- Test Benches
- LCR Meters

Supported Protocols
The framework can interface with any instrument that supports these protocols:
- USB Test & Measurement Driver
- General Purpose Interface Bus (GPIB)
- Ethernet (IEEE 802.3)
- Serial (RS-232)
- Virtual Instrument Software Architecture (VISA)
- Standard Communication Protocol for Instruments (SCPI)

Remote Monitoring
- Tests can be controlled and monitored remotely from the Ethernet network
- Any computer in-lab or on Bluezone
- Includes off-site computers on the VPN

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