

Eidola OSDP Toolset Ei-Wrench

Ei-Wrench™

The Ei-Wrench is an ARM or x86 device running Devuan Linux that supports the testing of physical security infrastructure. EiWrench tools include full support of the Open Supervised Device Protocol (OSDP) including conformance, configuration, integration, maintenance, testing, support and development of OSDP devices throughout their lifecycle. EiWrench customers include end-users, system integrators and OSDP solution vendors. The Eidola team remains involved in the further evolution and support of the OSDP protocol with the Security Industry Association including the [OSDP Boot Camp](#) for hands on training. This document refers to the user interface based functionality of an EiWrench, for interacting directly with our application programming interface (API) please request API documentation and support from eidola@idmachines.com.

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Ei-Wrench Diagnostics and Tools

The Ei-Wrench consists of different tools and capabilities. These include:

[OSDP Monitor Dashboard](#) acts as a monitor in the middle of an OSDP Access Control Unit (ACU) and a Peripheral Device (PD). As a diagnostic you can start and stop recording this communication, a display of the last 100 log lines is provided for the most recent snapshot of activity and well as the full captured results.

[OSDP ACU](#) starts an OSDP ACU server on the EiWrench that can then be used to exercise OSDP PDs. ACU start, stop, status, logging (including verbose), report, addressing and communication settings are available in the UI. The diagnostic includes a rich (more than two dozen) OSDP command set for interaction with PDs covering the protocol, commands and responses for PD conformance testing.

[OSDP PD](#) emulates a PD and much like the ACU tool it provides start, stop, status, logging, and CP conformance testing across protocol, commands and responses.

[OSDP Inventory Checker](#) provides the current build and configuration of OSDP devices, this is used to update documentation on current build and any (e.g. firmware) other updates. It provides a single way to gather configuration information across a wide range of manufacturers and devices.

[OSDP File Transfer](#) as the name implies allows the bidirectional communications and file transfer between the EiWrench and OSDP devices. It provides a means to perform firmware updates, maintenance access to OSDP devices and file management.

[OSDP LED Exerciser](#) allows testing of device LEDs with conforming OSDP commands. Green, Red, Blue, Amber supported. Set Green and Red and blink all.

[OSDP Dashboard and Settings](#) sets device configuration for address, poll timeout, timeout, com speed, verbosity, FQDN, network address. Transfers settings to Conformance Checking in OSDP ACU and OSDP PD.

[Digital I/O Dashboard](#) allows toggling of input and output bits based on OSDP commands. Supports 8 bits of I/O. Has a plug-in for I/O modules.

[Infrastructure Health Check](#) performs a check of the local network for further evaluation.

[Power Scanner](#) provides an SNMP (Simple Network Monitoring Protocol) query of a power supply management information base. Stores, measures, monitors and reports on supplies that are part of the physical security system that support SNMP.

Ei-Wrench customers have access to Eidola support including knowledge base, discounts on training and other IDmachines services. If you have any questions or needs, please contact us through eidola@idmachines.com