OSDP Implementors – Welcome

If you're reading this you've probably inquired about getting up to speed on the current OSDP standardization effort. This is a quick list to get you started on the topic.

The Spec

The current spec is 2.1.7. There are about 6 documents in total with profiles and LED colors etc. Go to the SIA standards folks and get plugged in to use the sharepoint area. (If SIA's sharepoint instance is in a mood, ask someone for a document care package.)

Open Source

there's an implementation, “libosdp”, at https://github.com/smithee-us/libosdp. There's a separate “conformance tool” at https://github.com/security-industry-association/libosdp-conformance They're separate because the conformance tool breaks the protocol so as to stress test an implementation.

Open Source Tools

1. libosdp can act as a PD
2. libosdp can act as a CP
3. libosdp can act in “Monitor” mode.

OPEN SOURCE CONFIG

It's a linux C program. Use conventional linux (I happen to run Devuan, it shouldn't matter.) It uses an RS-485 to USB converter, available online (Amazon etc.) The 485 device shows up as /dev/ttyUSB0, the program uses conventional Linux serial port drivers for it's communication.

CABLING

(If you're a vendor feel free to share any wisdom on how to build a standardized RS-485 cable for access control. In the mean time here's the 2017 “OSDP Conformance Cable” configuration:

Parts List

3x 4-port 18-12 gauge push-in connector blocks
red white and black solid core wire, stripped and cut in 0.5 meter lengths
4 red wires to block 1
4 white wires to block 2
4 black wires to block 3
rs485 adapter: tx+ to RED; tx- to WHITE; ground to BLACK
your DUT pair (CD and PD) each to a red/white/black set.