OSDP Capture Format

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Introduction

This specification describes the OSDP protocol capture format used with libosdp-conformace. It uses the file extension (and simplified name) “OSDPCAP”. This documents format version 1. Hyphens were removed and switched to ‘camelcase’ to be more parser-friendly. This version is implemented in libosdp-conformance 0.9 forward.

Purpose

To capture an OSDP byte stream for analysis.

Format

This is “JSONL” - JSON formed as a one line text JSON object, in a stream.

Fields

Field 'data'

data

bytes, in hex, with interspersed spaces. These are the bytes right off the wire. Usually but not always a whole OSDP message. Might include the marking bytes (ff) in front of the SOM.

Field 'io'

io

form of trace source, values are "input", "output", and "trace".

Field 'osdpSource'

osdpSource

the tool that created this record.

Field 'osdpTraceVersion'

osdpTraceVersion

what version of the format this record was written to follow. This document describes version "1" (one.)

Fields 'timeSec' and 'timeNano'

timeSec, timeNano

In Linux, the 'struct timespec' time returned by clock_gettime.

Example

{ "timeSec" : "1580342115", "timeNano" : "984691851", "io" : "trace", "data" : " ff ff 53 80 08 00 01 4b 01 d8", "osdpTraceVersion":"1", "osdpSource":"libosdp-conformance 0.91-5" }