

# OSPD Verified Test Descriptions

1.61-1

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# Introduction

How to read this document  
about the test naming

uses numbering from published 60839-11-5

# Test Descriptions

## Test Group 5 – Protocol

### Test 050-01-01 Physical Interface

**Test Reference:** 050-01-01 (rev.01)

**Test Title:** Physical Interface

**Criteria:** (required: basic) supports RS-485 2-wire

**Test action:** plug it in to RS-485 test jig and make sure it works. Requires choosing a speed at which to test.

**Operator action:**

- confirm initial set-up.
- confirm interview form complete.
- set up at designated address/speed.
- connect DUT
- confirm at least 8 poll/ack sequences completed.

**Recommended processing:** n/a

### Test-draft 050-01-02 TCP Interface

t.b.d.

**Criteria:** (optional) support TCP as implemented in the reference implementation including "kick-not-poll" processing.

**Recommended processing:** n/a

### Test 050-02-01 Signalling

**Test Reference:** 050-02-01 (rev. 01)

**Test Title:** Signalling

**Criteria:** (required) supports at least one of the designated speeds.

**Test action:** confirm communications at designated speed. See interview form.

**Operator action:**

- use speed from form
- confirm testbed is running at that speed
- connect DUT
- confirm at least 8 poll/ack sequences completed

**Recommended processing:** n/a

### Test 050-03-01 Character Encoding

**Test Reference:** 050-03-01 (rev. 01)

**Test Title:** Character Encoding

**Criteria:** (required) support use of all possible 8 bit patterns.

**Test action:** Use OSDP trace to confirm character coverage.

**Operator action:**

- Exercise DUT through full test set, collecting a trace
- Confirm successful operation
- Run trace analyzer

Report character coverage

**Recommended processing:** n/a

## **Test 050-04-01 Channel Access**

**Test Reference:** 050-04-01 (rev. 02)

**Test Title:** Channel Access

**Criteria:** (required) Confirm only one reply per command; presence of busy; later processing if busy.

**Test action:** Use OSDP trace to confirm presence of busy, one reply per command.

**Operator action:**

Set up DUT and run a selection of commands, collecting a trace

Run trace analyzer

Confirm analyzer does not report response anomalies.

**Recommended processing:** n/a

## **Test-draft 050-04-02 Retry**

tbd required

at test ACU by command drop a response and send the last command again. make sure the PD behaves correctly - no nak, processes the command again (?)

## **Test-draft 050-05-01 Multibyte Encoding**

tbd required

?? test from ACU to PD

?? test from PD to ACU

050-05-01,Multi-byte Data Encoding,lsb first unless otherwise noted; no padding.

## **Test-draft 050-06-01 Packet Size Limits**

tbd required

RUN PDCAP TEST FIRST AND VERIFY PDCAP RESPONSE INCLUDES MAX PACKET SIZE

try a text out at the 128 limit, make sure you get "bad command" not "bad command", then try an out-of-spec packet and make sure you get "bad packet" not "bad command". use pdcap to identify max size claimed to be accepted by PD.

also, send a truly max sized packet using LED commands to a different address and ensure the PD does not fail. fail is defined as reboot, stop accepting poll, etc.

## Test 050-07-01 Timing

**Test Reference:** 050-07-01 (rev. 00)

**Test Title:** Timing

**Criteria:** (required) Confirm command (poll) response time is under 200 milliseconds.

**Test action:** Use OSDP trace log analyzer to confirm timing.

**Operator action:**

Set up DUT in idle poll/ack configuration, collecting a trace

Run trace analyzer

Confirm analyzer does not report response time of 200ms exceeded.

**Recommended processing:** n/a

## Test 050-08-01 Message Synchronization

**Test Reference:** 050-08-01 (rev. 00)

**Test Title:** Message Synchronization

**Criteria:** (required) Passes message traffic (implied.)

**Test action:** plug it in to RS-485 test jig and make sure it works. Requires choosing a speed at which to test. Assumes proper inter-character timing if the testing works.

**Operator action:** plug it in.

**Recommended processing:** n/a; Use a logic analyzer for further verification.

## Test 050-09-01 Packet Format

050-09-01,Packet Format, follow table 1 packet format.

### Other 050 tests

050-02-01,,

050-04-04,,

050-09-16,,

050-01-03,TLS,

050-02-02,"Signalling 19,200",

050-02-03,"Signalling 38,400",

050-02-04,"Signalling 115,200",

050-02-05,"Signalling 57,600",

050-02-06,"Signalling 230,400",

050-04-03,resent busy,

050-04-04,new after busy,

050-06-01,Packet Size Limits ACU to PD,accept at least 128 bytes total pdu size; accept max 1440 bytes total PDU size.

050-06-02,Packet Size Limits PD to ACU,

050-09-02,,process sequence 0

050-09-03,SOM - Start of Message,SOM starts each OSDP command and response

050-09-04,ADDR - Address,Address field indicates PD address 0x00-0x7e inclusive or special configuration address 0x7f

050-09-05,, "must not use 7f except for ID,PDID, CAP, PDCAP, COM, COMSET"

050-09-06,LEN - Length,Length field (2 bytes LSB MSB) indicates length of OSDP command and

response

050-09-07,CTRL - Control,

050-09-08,Security Block,

050-09-09,CMND / REPLY,

050-09-10,Valid command / reply,Command / Reply value in range

050-09-11,CHECKSUM,must support both

050-09-12,SOM Sent,(see old code)

050-09-13,Config address test,

050-09-14,Rogue SCS Poll,

050-09-15,CRC,

050-10-01,Large Data Arrays,Multi-part message fields added to certain commands and responses

## Test Group 6 – Commands

### Test 3-10-1 LED Test (Red)

### Test 3-10-2 LED Test (Green)

### Test 3-11-1 Buzzer Control

### Test 060-12-01 osdp\_COMSET

**Test Reference:** 060-12-01 (rev.00)

**Test Title:** osdp\_COMSET – set port and speed.

**Criteria:** (required: basic) supports RS-485 2-wire; cleartext

**Test action:** issue osdp\_COMSET and change ACU speed to match.

**Operator action:**

- confirm acu and pd are communicating (poll/ack counters)
- issue osdp\_COMSET and also change the test ACU's speed to match
- operator monitors statistics to confirm stabilized poll/ack traffic at new speed/address (confirm at least 8 poll/ack sequences completed.)
- issue osdp\_ID and capture response
- issue osdp\_CAP and capture response.

**Recommended processing:** Note – reset speed and address to 0/9600 before removing DUT from testbed.

**Development status:** available in current release of libosdp\_conformance (0.80-1.)

### Test 060-12-02 osdp\_COMSET (SCS)

**Test Reference:** 060-12-02 (rev.00)

**Test Title:** osdp\_COMSET – set port and speed, within a secure channel session.

**Criteria:** (required: basic) supports RS-485 2-wire

**Test action:** within a secure channel session issue osdp\_COMSET and change ACU speed to match.

**Operator action:**

- configure for secure channel
- execute procedure for 060-12-01.

**Recommended processing:** Note – reset speed and address to 0/9600 before removing DUT from testbed.

**Development status:** available in current release of libosdp\_conformance (0.80-1.)

### Test 060-16-02 Paired SCS

**Test Reference:** 060-16-02 (rev 00)

**Test Title:** Paired SCS

**Description:** Secure channel session using the paired key not the default key.

**Purpose:** Exercise use of paired key secure channel sessions.



**Criteria:** (required: pd-secure) as documented

**Test action:** configure a secure channel session with the default key, do a keyset to pair, then start the ACU again with a secure channel session on the paired key.

**Operator action:**

PD test: as documented

ACU test: as documented

**Recommended processing:** n/a

**Development status:** Available in libosdp-conformance 0.97-1

**Example use:** t.b.d.

## Test Group 7 – Responses

### Test 070-02-01 osdp\_ACK

**Test Reference:** 070-02-01 (rev. 01)

**Test Title:** osdp\_ACK response

**Description:** Default benign response to a poll.

**Purpose:** PD proof of life.

**Criteria:** (required: basic) must appear at least once in test sequence.

**Test action:** capture in trace during automated sequence.

**Operator action:**

PD test: run test ACU via sequencer, confirm trace analysis shows poll test

ACU test: prepare test PD and run ACU test sequencer.

**Recommended processing:** use a conventional ACU-PD configuration.

**Development status:** Available in libosdp-conformance 0.81-1

### Test 070-02-02 OSTATR response to POLL

**Test Reference:** 070-02-02 (rev. 00)

**Test Title:** osdp\_OSTATR response to a poll

**Description:**

**Purpose:**

**Criteria:** (optional: basic) should work if pdcap reports outputs.

**Test action:**

**Operator action:**

PD test:

ACU test:

**Recommended processing:**

**Development status:** Available in libosdp-conformance 0.81-2

**Example use:**

### Test 070-03-01 osdp\_NAK

**Test Reference:** 070-03-01 (rev. 01)

**Test Title:** osdp\_NAK response

**Description:** Negative acknowledgement with optional reason.

**Purpose:** Negative feedback..

**Criteria:** (required: basic) expected at least once due to induced NAK.

**Test action:** capture in trace during automated sequence.

**Operator action:**

PD test: run test ACU via sequencer, run nak test

ACU test: prepare test PD and run test to respond with a NAK.

**Recommended processing:** use a conventional ACU-PD configuration.

**Development status:** Available in libosdp-conformance 0.81-1

**Example use:** exceptions reported via the protocol.

## Test 070-03-02 NAK not 1

**Test Reference:** 070-03-02 (rev. 01)

**Test Title:** osdp\_NAK response (not code 1)

**Description:** Negative acknowledgement with a cause code other than 1.

**Purpose:** Exercise NAK mechanism to prove it can provide details.

**Criteria:** (optional) expected at least once due to induced NAK.

**Test action:** capture in trace during automated sequence.

**Operator action:**

PD test: run test ACU via sequencer, run nak test

ACU test: prepare test PD and run test to respond with a NAK.

**Recommended processing:** use a conventional ACU-PD configuration.

**Development status:** Available in libosdp-conformance 0.81-1

**Example use:** NAK with unknown command upon receipt of unimplemented osdp\_ACURXSIZE.

## Test 070-04-01 osdp\_PDID

**Test Reference:** 070-04-01 (rev. 01)

**Test Title:** osdp\_PDID response

**Description:** Confirm PDID response to ID

**Purpose:** Confirm PD can be identified.

**Criteria:** (required: basic)

**Test action:** capture in trace during automated sequence.

**Operator action:**

PD test: run test ACU via sequencer, send osdp\_ID

ACU test: prepare test PD and respond with PDID when the ACU test harness induces an ID request.

**Recommended processing:** use a conventional ACU-PD configuration.

**Development status:** Available in libosdp-conformance 0.81-1

**Example use:** returns PD identification for ACU set-up.

## Test 070-04-02 Bad PDID

**Test Reference:** 070-04-02 (rev. 01)

**Test Title:** osdp\_PDID invalid response

**Description:** Declared if PDID is present but wrong.

**Purpose:** Confirm PD contains usable and/or documented details.

**Criteria:** (optional)

**Test action:** capture in trace during automated sequence.

**Operator action:**

PD test: run test ACU via sequencer, examine PDID response

ACU test: prepare test PD and respond with PDID when the ACU test harness induces an ID request.

**Recommended processing:** use a conventional ACU-PD configuration.

**Development status:** Available in libosdp-conformance 0.81-1

**Example use:** test reflects identified issues in PDID response data.

## Test 070-05-01 osdp\_PDCAP

**Test Reference:** 070-05-01 (rev. 01)

**Test Title:** osdp\_PDCAP response

**Description:** Confirm PDCAP response to osdp\_CAP

**Purpose:** Confirm PD capabilities can be queried.

**Criteria:** (required: basic)

**Test action:** capture in trace during automated sequence; analysis process also checks specific capabilities.

**Operator action:**

PD test: run test ACU via sequencer, send osdp\_CAP

ACU test: prepare test PD and respoknd with PDCAP when the ACU test harness induces an osdp\_CAP request.

**Recommended processing:** use a conventional ACU-PD configuration.

**Development status:** Available in libosdp-conformance 0.81-1

**Example use:** retrieve PD capabilities to confirm it supports secure channel.

## Test 070-05-02 Capability: number of inputs

**Test Reference:** 070-05-02 (rev. 01)

**Test Title:** Capability - number of inputs

**Description:** Identify presence of capability no. 1 (number of inputs.)

**Purpose:** Confirm capability presence and values.

**Criteria:** (optional: basic)

**Test action:** capture in trace during automated sequence.

**Operator action:**

PD test: run test ACU via sequencer, send osdp\_CAP, analyze osdp\_PDCAP response

ACU test: prepare test PD and respond with PDCAP containing a known value.

**Recommended processing:** use an ACU-PD configuration that includes I/O signalling.

**Development status:** Available in libosdp-conformance 0.81-1

**Example use:** confirm PD has inputs before configuring.

## tbd 070-05-03 through 070-05-xx

070-04-04, capability 2 - number and type of outputs,

070-04-06, capability 4 - number and type of LED,

070-04-07, capability 5 - audible output,

070-04-08, capability 6 - text display,

070-04-11, capability 9 - report secure channel yes/no,

070-04-15, capability 13 - Number of Readers,

## Test 070-05-17 Capability: OSDP version

**Test Reference:** 070-05-17 (rev. 00)

**Test Title:** Capability – OSDP version.

**Description:** Identify which version of the OSDP protocol this PD implements.

**Purpose:** Compatibility

**Criteria:** (recommended: basic)

**Test action:** capture in trace during automated sequence.

**Operator action:**

PD test: run test ACU via sequencer, send osdp\_CAP, analyze osdp\_PDCAP response

ACU test: prepare test PD and respond with PDCAP containing a known value.

**Recommended processing:** use standard ACU-PD configuration.

**Development status:** Available in libosdp-conformance 0.81-2

**Example use:** confirm PD supports SIA 2.2 spec.

## Test 070-06-01 osdp\_LSTATR

**Test Reference:** 070-06-01 (rev. 01)

**Test Title:** local status report

**Description:** Reports poweron and tamper state

**Purpose:** Notify ACU of loss of power or tamper state.

**Criteria:** (required: basic)

**Test action:** capture in trace during automated sequence. look for any example including LSTAT response.

**Operator action:**

PD test: run test ACU via sequencer, send osdp\_LSTAT, analyze osdp\_LSTATR response

ACU test: prepare test PD and respond with LSTATR simulating power cycle or tamper

**Recommended processing:** use a conventional ACU-PD configuration.

**Development status:** Available in libosdp-conformance 0.81-1

**Example use:** detect PD has gone into Tamper state.

## Test 070-06-02 LSTATR Tamper

**Test Reference:** 070-06-02 (rev. 00)

**Test Title:** Local Status Report - Tamper

**Description:** Reports tamper state

**Purpose:** Notify ACU of tamper state.

**Criteria:** (optional: basic)

**Test action:** capture in trace during automated sequence. look for any example including LSTAT response.

**Operator action:**

PD test: run test ACU via sequencer, send osdp\_LSTAT, analyze osdp\_LSTATR response

ACU test: prepare test PD and respond with LSTATR simulating tamper

**Recommended processing:** use a conventional ACU-PD configuration.

**Development status:** Available in libosdp-conformance 0.81-1

**Example use:** detect PD has gone into Tamper state.

## Test 070-06-03 LSTATR Power

**Test Reference:** 070-05-03 (rev. 00)

**Test Title:** Local Status Report - Power

**Description:** Reports power-on state

**Purpose:** Notify ACU of power cycling.

**Criteria:** (optional: basic)

**Test action:** capture in trace during automated sequence. look for any example including LSTAT response.

**Operator action:**

PD test: run test ACU via sequencer, send osdp\_LSTAT, analyze osdp\_LSTATR response

ACU test: prepare test PD and respond with LSTATR simulating power restoral.

**Recommended processing:** use a conventional ACU-PD configuration.

**Development status:** Available in libosdp-conformance 0.81-1

**Example use:** detect PD has cycled power.

## Test 070-07-01 osdp\_ISTATR

**Test Reference:** 070-07-01 (rev 00)

**Test Title:** Input Status Report

**Description:** reports digital in status

**Purpose:** Notify ACU of alarm point value changes.

**Criteria:** optional: basic, required if PDCAP reports inputs.

**Test action:** Operator-induced I/O signal change.

**Operator action:**

PD test: query with osdp\_ISTAT

ACU test: confirm detection of exerciser-induced input status change.

**Recommended processing:** Use ACU-PD configuration with 1 digital input and 1 digital output.

**Development status:** Available in libosdp-conformance 0.80-1

**Example use:** Alarm points, REX, DFS.

## Test 070-08-01 osdp\_OSTATR

**Test Reference:** 070-08-01 (rev 00)

**Test Title:** Output Status Report

**Description:** reports digital out status

**Purpose:** energize relay.

**Criteria:** optional: basic, required if PDCAP reports outputs.

**Test action:** Operator-induced I/O signal change.

**Operator action:**

PD test: query with osdp\_OSTAT

ACU test: confirm exerciser PD detects exerciser-induced output change.

**Recommended processing:** Use ACU-PD configuration with 1 digital input and 1 digital output.

**Development status:** Available in libosdp-conformance 0.80-1

**Example use:** Lock/Unlock.

## Test 070-09-01 osdp\_RSTATR

**Test Reference:** 070-09-01 (rev 00)

**Test Title:** Reader status report

**Description:** reports on status of downstream (not the primary) reader

**Purpose:** control downstream attached readers.

**Criteria:** (optional: basic)

**Test action:** checked through automatic sequencer.

**Operator action:**

PD test: sequencer uses exerciser to request status

ACU test: exerciser reports PD status when queried by ACU

**Recommended processing:** Use standard ACU/PD with zero downstream readers.

**Development status:** Available in libosdp-conformance 0.80-1

**Example use:** (deprecated?)

## Test 070-10-01 osdp\_RAW

**Test Reference:** 070-10-01 (rev 00)

**Test Title:** Raw card read

**Description:** reads raw (bits) from credential

**Purpose:** collect card data.

**Criteria:** (required: basic)

**Test action:** Operator controlled.

**Operator action:**

PD test: operator presents credential, sequencer uses exerciser to record card read.

ACU test: exerciser reports a card read, check it gets through.

**Recommended processing:** Use standard ACU/PD.

**Development status:** Available in libosdp-conformance 0.80-1

**Example use:** card read test

## Test 070-12-01 osdp\_KEYPAD

**Test Reference:** 070-12-01 (rev 00)

**Test Title:** Keypad

**Description:** reads keypad input

**Purpose:** reads keypad

**Criteria:** optional: basic

**Test action:** Operator controlled.

**Operator action:**

PD test: operate keypad and check for input.

ACU test: confirm acu reports induced keypad input.

**Recommended processing:** Use ACU with a keypad PD.

**Development status:** Available in libosdp-conformance 0.80-1

**Example use:** card read test

## Test 070-13-01 osdp\_COM

**Test Reference:** 070-13-01 (rev 00)

**Test Title:** Communications report

**Description:** reports new actual speed and address

**Purpose:** PD configuration

**Criteria:** (optional: basic)

**Test action:** Operator controlled.

**Operator action:**

PD test: operator tests at least 2 speeds.

ACU test: confirm pd exerciser can be configured..

**Recommended processing:** Use standard ACU/PD.

**Development status:** Available in libosdp-conformance 0.80-1

**Example use:** change address from 0 to 1 and back

## **tbd 070-14-01 osdp\_BIOREADR**

00

## **tbd 070-15-01 osdp\_BIOMATCHR**

t.b.d.

## **Test 070-16-01 osdp\_CCRYPT**

**Test Reference:** 060-16-01 (rev 00)

**Test Title:** Client Cryptogram response

**Description:** part of secure channel session set-up sequence

**Purpose:** return challenge data to ACU to complete session set-up

**Criteria:** (required: basic)

**Test action:** activate secure channel and confirm sequence completes properly.

**Operator action:**

PD test: operator initiates secure channel through exerciser.

ACU test: ACU is induced to establish a secure channel

**Recommended processing:** Use standard ACU/PD

**Development status:** Available in libosdp-conformance 0.80-1

**Example use:** t.b

## **Test 070-17-01 osdp\_RMAC\_I**

**Test Reference:** 070-17-01 (rev 00)

**Test Title:** Recieve MAC Initialization

**Description:** return initial rmac value from PD to ACU

**Purpose:** complete set-up for secure channel.

**Criteria:** (required: basic)

**Test action:** activate secure channel and confirm sequence completes properly.

**Operator action:**

PD test: operator initiates secure channel through exerciser.

ACU test: ACU is induced to establish a secure channel

**Recommended processing:** Use standard ACU/PD

**Development status:** Available in libosdp-conformance 0.80-1

**Example use:** t.b.d.



## **Test 070-18-01 osdp\_MFGREP**

**Test Reference:** 070-18-01 (rev 00)

**Test Title:** Manufacturer-specific response

**Description:**

**Purpose:**

**Criteria:** (optional: basic)

**Test action:**

**Operator action:**

PD test:

ACU test:

**Recommended processing:**

**Development status:**

**Example use:**

,osdp\_FTSTAT,

**7-18 busy**

**7-19 pivdatar**

**7-20 genauthr**

**7-21 crauthr**

**7-22 mfgstatr**

**7-23 mfgerrr**

**7-24 ftstat**

**7-26 xrd**

,osdp\_BIOREADR,  
,osdp\_BIOMATCHR,

## command list 2

060-01-01,osdp\_POLL,  
060-02-01,osdp\_ID,  
060-03-01,osdp\_CAP,  
060-04-01,osdp\_LSTAT,  
060-05-01,osdp\_ISTAT,required unless PDCAP reports 0 inputs  
060-06-01,osdp\_OSTAT,required unless PDCAP reports 0 outputs  
060-07-01,osdp\_RSTAT,required unless PDCAP reports 0 readers  
060-08-01,osdp\_OUT,required unless PDCAP reports 0 outputs  
060-09-01,osdp\_LED,required if PDCAP reports >0 LED's  
060-10-01,osdp\_BUZ,required if PDCAP reports >0 annunciators  
060-11-01,osdp\_TEXT,required if PDCAP reports >0 displays  
060-13-01,osdp\_BIOREAD,  
060-14-01,osdp\_BIOMATCH,  
060-15-01,osdp\_KEYSET,used by secure channel  
060-16-01,osdp\_CHLNG,used by secure channel

060-16-02

060-16-03

060-17-01,osdp\_SCRIPT,used by secure channel  
060-19-01,osdp\_ACURXSIZE,  
060-25-01,osdp\_FILETRANSFER,  
060-18-01,osdp\_MFG,required if manufacturer has their own special commands.  
,osdp\_XWR,  
,osdp\_ABORT,  
,osdp\_PIVDATA,  
,osdp\_GENAUTH,  
,osdp\_CRAUTH,  
,osdp\_KEEPACTIVE,

## Test 999-99-99 TEMPLATE

**Test Reference:** 999-99-01 (rev 04)

**Test Title:** Template

**Description:**

**Purpose:**

**Criteria:** (required: basic) as documented

**Test action:** as documented

**Operator action:**

PD test: as documented

ACU test: as documented

**Recommended processing:** n/a

**Development status:** Available in libosdp-conformance 0.80-1

**Example use:** t.b.d.