

## OSDP Verified Tests

|           | OSDP VERIFIED                | Applicant 000: TEMPLATE  |                        |                               |                        |              |                        |                               |                        |              |
|-----------|------------------------------|--|------------------------|-------------------------------|------------------------|--------------|------------------------|-------------------------------|------------------------|--------------|
| 1.52-1    |                              |  | PD                     | PD                            | PD                     | PD           | ACU                    | ACU                           | ACU                    | ACU          |
| test id   | description                  | note   | Profile: Basic<br>OSDP | Profile: Security<br>Features | Profile: Smart<br>card | Profile: Bio | Profile: Basic<br>OSDP | Profile: Security<br>Features | Profile: Smart<br>card | Profile: Bio |
| 050-01-01 | Physical Interface           | 2-wire RS-485  | Required               |                               |                        |              |                        |                               |                        |              |
| 050-01-02 | TCP                          |  | Optional               |                               |                        |              |                        |                               |                        |              |
| 050-01-03 | TLS                          |  | Optional               |                               |                        |              |                        |                               |                        |              |
| 050-02-01 | Signalling 9,600             | Support at least one of 9600 19200 38400 57600 115200 230400; 8 data bits, 1 stop bit, no parity bits.   | One of required        |                               |                        |              |                        |                               |                        |              |
| 050-02-02 | Signalling 19,200            |  | One of required        |                               |                        |              |                        |                               |                        |              |
| 050-02-03 | Signalling 38,400            |  | One of required        |                               |                        |              |                        |                               |                        |              |
| 050-02-04 | Signalling 115,200           |  | One of required        |                               |                        |              |                        |                               |                        |              |
| 050-02-05 | Signalling 57,600            |  | One of required        |                               |                        |              |                        |                               |                        |              |
| 050-02-06 | Signalling 230,400           |  | One of required        |                               |                        |              |                        |                               |                        |              |
| 050-03-01 | Character Encoding           | supports all possible 8 bit values.  | Required               |                               |                        |              |                        |                               |                        |              |
| 050-04-01 | Channel Access               | interrogation/reply; reply within 200 ms; only one reply per interrogation; respond busy if unavailable; ack interrogation and respond later if necessary. | Required               |                               |                        |              |                        |                               |                        |              |
| 050-04-02 |                              | support retry  | Required               |                               |                        |              |                        |                               |                        |              |
| 050-04-03 | resend busy                  |  | Required               |                               |                        |              |                        |                               |                        |              |
| 050-04-04 | new after busy               |  | Required               |                               |                        |              |                        |                               |                        |              |
| 050-05-01 | Multi-byte Data Encoding     | lsb first unless otherwise noted; no padding.  | Required               |                               |                        |              |                        |                               |                        |              |
| 050-06-01 | Packet Size Limits ACU to PD | accept at least 128 bytes total pdu size; accept max 1440 bytes total PDU size.  | Required               |                               |                        |              |                        |                               |                        |              |
| 050-06-02 | Packet Size Limits PD to ACU |  | Required               |                               |                        |              |                        |                               |                        |              |
| 050-07-01 | Timing                       | respond in 200 ms max 3ms nominal; wait at least 2 character times before transmitting; transmit 8 bits of marking bit (0xff) before a transmission        | Required               |                               |                        |              |                        |                               |                        |              |
| 050-08-01 | Message Syn-chronization     | max 20 ms inter-character delay during message transmission; wait for marking state then SOM to commence message reception                                 | Required               |                               |                        |              |                        |                               |                        |              |
| 050-09-01 | Packet Format                | follow table 1 packet format.  | Required               |                               |                        |              |                        |                               |                        |              |

OSDP Verified Tests

|           |                        |  |                 |       |          |          |          |  |  |  |
|-----------|------------------------|--|-----------------|-------|----------|----------|----------|--|--|--|
| 050-09-02 |                        | process sequence 0   | Required        |       |          |          |          |  |  |  |
| 050-09-03 | SOM - Start of Message | SOM starts each OSDP command and response  | Required        |       |          |          |          |  |  |  |
| 050-09-04 | ADDR - Address         | Address field indicates PD address 0x00-0x7e inclusive or special configuration address 0x7f | Required        |       |          |          |          |  |  |  |
| 050-09-05 |                        | must not use 7f except for ID,PDID, CAP, PDCAP, COM, COMSET                                  | Required        |       |          |          |          |  |  |  |
| 050-09-06 | LEN - Length           | Length field (2 bytes LSB MSB) indicates length of OSDP command and response                 | Required        |       |          |          |          |  |  |  |
| 050-09-07 | CTRL - Control         |  | Required        |       |          |          |          |  |  |  |
| 050-09-08 | Security Block         |  | Optional        | Req'd |          |          |          |  |  |  |
| 050-09-09 | CMND / REPLY           |  | Required        |       |          |          |          |  |  |  |
| 050-09-10 | Valid command / reply  | Command / Reply value in range   | Required        |       |          |          |          |  |  |  |
| 050-09-11 | CHECKSUM               | must support both  | Required        |       |          |          |          |  |  |  |
| 050-09-12 | SOM Sent               | (see old code)   | Required        |       |          |          |          |  |  |  |
| 050-09-13 | Config address test    |  | Required        |       |          |          |          |  |  |  |
| 050-09-14 | Rogue SCS Poll         |  | Required        |       |          |          |          |  |  |  |
| 050-09-15 | CRC                    |  | Required        |       |          |          |          |  |  |  |
| 050-10-01 | Large Data Arrays      | Multi-part message fields added to certain commands and responses                            | Optional        |       |          |          |          |  |  |  |
|           |                        |  |                 |       |          |          |          |  |  |  |
| 060-02-01 | osdp_POLL              |  | Required        |       |          |          |          |  |  |  |
| 060-02-02 | Istat poll             |  |                 |       |          |          |          |  |  |  |
| 060-03-01 | osdp_ID                |  | Required        |       |          |          |          |  |  |  |
| 060-04-01 | osdp_CAP               |  | Required        |       |          |          |          |  |  |  |
| 060-05-01 | osdp_LSTAT             |  | Required        |       |          |          |          |  |  |  |
| 060-06-01 | osdp_ISTAT             | required unless PDCAP reports 0 inputs   | Required        |       |          |          |          |  |  |  |
| 060-07-01 | osdp_OSTAT             | required unless PDCAP reports 0 outputs  | Required        |       |          |          |          |  |  |  |
| 060-08-01 | osdp_RSTAT             | required unless PDCAP reports 0 readers  | Required        |       |          |          |          |  |  |  |
| 060-09-01 | osdp_OUT               | required unless PDCAP reports 0 outputs  | Required        |       |          |          |          |  |  |  |
| 060-10-01 | LED (any color)        | required if PDCAP reports >0 LED   | Required        | Opt   | Optional | Optional | Required |  |  |  |
| 060-10-02 | LED Color 0 (Black)    | required if PDCAP reports >0 LED   | Required        |       |          |          |          |  |  |  |
| 060-10-03 | LED Color 1 (Red)      | if PDCAP reports >0 LED  | One of required |       |          |          |          |  |  |  |
| 060-10-04 | LED Color 2 (Green)    | if PDCAP reports >0 LED  | One of required |       |          |          |          |  |  |  |
| 060-10-05 | LED Color 3 (Amber)    | if PDCAP reports >0 LED  | One of required |       |          |          |          |  |  |  |
| 060-10-06 | LED Color 4 (Blue)     | if PDCAP reports >0 LED  |                 |       |          |          |          |  |  |  |
| 060-10-07 | LED Color 5 (Magenta)  | TBD, one of 060-09-xx required if PDCAP reports >0 LED; version=2.2                          |                 |       |          |          |          |  |  |  |

## OSDP Verified Tests

|           |   |   |          |          |  |  |  |  |  |  |
|-----------|---|---|----------|----------|--|--|--|--|--|--|
| 060-10-08 | LED Color 6 (Cyan)                        | TBD, one of 060-09-xx required if PDCAP reports >0 LED; version=2.2 |          |          |  |  |  |  |  |  |
| 060-10-09 | LED Color 7 (White)                       | TBD, one of 060-09-xx required if PDCAP reports >0 LED; version=2.2 |          |          |  |  |  |  |  |  |
| 060-11-01 | osdp_BUZ                                  | required if PDCAP reports >0 annunciators                           | Required |          |  |  |  |  |  |  |
| 060-12-01 | osdp_TEXT                                 | required if PDCAP reports >0 displays                               | Optional |          |  |  |  |  |  |  |
| 060-13-01 | osdp_COMSET                               |   |          |          |  |  |  |  |  |  |
| 060-14-01 | osdp_BIOREAD                              |   | Optional | Opt      |  |  |  |  |  |  |
| 060-15-01 | osdp_BIOMATCH                             |   | Optional | Opt      |  |  |  |  |  |  |
| 060-16-01 | osdp_KEYSET                               | used by secure channel  | Optional | Required |  |  |  |  |  |  |
| 060-16-02 | SCS Keyed Active                          |   |          |          |  |  |  |  |  |  |
| 060-16-03 | SCS Rekey                                 |   |          |          |  |  |  |  |  |  |
| 060-16-03 | Key Rotation                              |   |          |          |  |  |  |  |  |  |
| 060-17-01 | osdp_CHLNG                                | used by secure channel  | Optional | Required |  |  |  |  |  |  |
| 060-18-01 | osdp_SCRYPT                               | used by secure channel  | Optional | Required |  |  |  |  |  |  |
| 060-19-01 | osdp_MFG                                  | required if manufacturer has their own special commands.            |          |          |  |  |  |  |  |  |
| 060-20-01 | osdp_ACURXSIZE                            |   |          |          |  |  |  |  |  |  |
| 060-21-01 | osdp_KEEPACTIVE                           |   |          |          |  |  |  |  |  |  |
| 060-22-01 | osdp_ABORT                                |   |          |          |  |  |  |  |  |  |
| 060-23-01 | osdp_PIVDATA                              |   |          |          |  |  |  |  |  |  |
| 060-24-01 | osdp_GENAUTH                              |   |          |          |  |  |  |  |  |  |
| 060-24-02 | GENAUTH after RAW                         |   |          |          |  |  |  |  |  |  |
| 060-25-01 | osdp_CRAUTH                               |   |          |          |  |  |  |  |  |  |
| 060-25-02 | CRAUTH after RAW                          | sends osdp_CRAUTH as next command after osdp_RAW is received        |          |          |  |  |  |  |  |  |
| 060-26-01 | osdp_FILETRANSFER                         |   |          |          |  |  |  |  |  |  |
| 060-27-01 | osdp_XWR                                  |   |          |          |  |  |  |  |  |  |
|           |   |   |          |          |  |  |  |  |  |  |
| 070-02-01 | osdp_ACK                                  |   | Required |          |  |  |  |  |  |  |
| 070-02-02 |   |   |          |          |  |  |  |  |  |  |
| 070-03-01 | osdp_NAK                                  | SIO Comm Handler - NAK 1 Message Check                              |          |          |  |  |  |  |  |  |
| 070-03-02 | NAK not 1                                 | NAK error code not 1  |          |          |  |  |  |  |  |  |
| 070-04-01 | osdp_PDID                                 | clear about response requirements in spec                           |          |          |  |  |  |  |  |  |
| 070-04-02 |   | bad pdid  |          |          |  |  |  |  |  |  |
| 070-05-01 | osdp_PDCAP                                |   |          |          |  |  |  |  |  |  |
| 070-05-02 | capability 1 - number and type of inputs  |   |          |          |  |  |  |  |  |  |
| 070-05-03 | capability 2 - number and type of outputs |   |          |          |  |  |  |  |  |  |
|           | tbd - other capabilities                  |   |          |          |  |  |  |  |  |  |

OSDP Verified Tests

|           |   |  |          |          |  |  |  |  |  |  |
|-----------|---|--|----------|----------|--|--|--|--|--|--|
| 070-05-05 | capability 4 - number and type of LED       |  |          |          |  |  |  |  |  |  |
| 070-05-06 | capability 5 - audible output               |  |          |          |  |  |  |  |  |  |
| 070-05-07 | capability 6 - text display                 |  |          |          |  |  |  |  |  |  |
| 070-05-10 | capability 9 - report secure channel yes/no |  |          |          |  |  |  |  |  |  |
| 070-05-11 | capability 10 -- receive bufferSize         |  |          |          |  |  |  |  |  |  |
| 070-05-13 | capability 12 -- Smart card support         |  |          |          |  |  |  |  |  |  |
| 070-05-14 | capability 13 - Number of Readers           |  |          |          |  |  |  |  |  |  |
| 070-05-15 | cap 14 bio                                  |  |          |          |  |  |  |  |  |  |
| 070-05-16 | cap 15 SPE                                  |  |          |          |  |  |  |  |  |  |
| 070-06-17 | Cap 16 Version                              |  |          |          |  |  |  |  |  |  |
| 070-06-01 | osdp_LSTATR                                 | RECOMMENDED?   |          |          |  |  |  |  |  |  |
| 070-06-02 | LSTATR Tamper                               |  |          |          |  |  |  |  |  |  |
| 070-06-03 | LSTATR Power                                |  |          |          |  |  |  |  |  |  |
| 070-07-01 | osdp_ISTATR                                 | required if PDCAP reports >0 inputs                      |          |          |  |  |  |  |  |  |
| 070-08-01 | osdp_OSTATR                                 | required if PDCAP reports >0 outputs                     |          |          |  |  |  |  |  |  |
| 070-09-01 | osdp_RSTATR                                 | required if PDCAP reports >0 readers                     |          |          |  |  |  |  |  |  |
| 070-10-01 | osdp_RAW                                    | required if card read                                    | Required | Required |  |  |  |  |  |  |
| 070-10-02 | 26 bit p/data/p                             | specific card format noted                               |          |          |  |  |  |  |  |  |
| 070-10-03 | 26 bit raw                                  | specific card format noted                               |          |          |  |  |  |  |  |  |
| 070-10-04 | 200 bit FASC-N                              | specific card format noted                               |          |          |  |  |  |  |  |  |
| 070-10-05 | 128 bit FASC-N                              | specific card format noted                               |          |          |  |  |  |  |  |  |
| 070-10-06 | 75 bit FASC-N                               | specific card format noted                               |          |          |  |  |  |  |  |  |
| 070-11-01 | osdp_FMT                                    | deprecated   |          |          |  |  |  |  |  |  |
| 070-12-01 | osdp_KEYPAD                                 | required if keypad hardware present                      |          |          |  |  |  |  |  |  |
| 070-13-01 | osdp_COM                                    |  |          |          |  |  |  |  |  |  |
| 070-14-01 | osdp_BIOREADR                               |  |          |          |  |  |  |  |  |  |
| 070-15-01 | osdp_BIOMATCHR                              |  |          |          |  |  |  |  |  |  |
| 070-16-01 | osdp_CCRYPT                                 |  | Optional | Required |  |  |  |  |  |  |
| 070-17-01 | osdp_RMAC_I                                 |  | Optional | Required |  |  |  |  |  |  |
| 070-17-02 |   |  |          |          |  |  |  |  |  |  |
| 070-18-01 | osdp_MFGREP                                 | required if manufacturer has their own special commands. |          |          |  |  |  |  |  |  |
| 070-19-01 | osdp_BUSY                                   |  |          |          |  |  |  |  |  |  |
| 070-20-01 | osdp_PIVDATAR                               |  |          |          |  |  |  |  |  |  |
| 070-21-01 | osdp_GENAUTHR                               |  |          |          |  |  |  |  |  |  |
| 070-22-01 | osdp_CRAUTHR                                |  |          |          |  |  |  |  |  |  |
| 070-23-01 | osdp_MFGSTATR                               | required if manufacturer has their own special commands. |          |          |  |  |  |  |  |  |

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|-----------|----------------------|--|--|--|--|--|--|--|--|--|
| 070-24-01 | osdp_MFGERRR         | required if manufacturer has their own special commands. |  |  |  |  |  |  |  |  |
| 070-25-01 | osdp_FTSTAT          |  |  |  |  |  |  |  |  |  |
| 070-25-02 | FTSTAT initial delay |  |  |  |  |  |  |  |  |  |
| 070-25-03 | FTSTAT final delay   |  |  |  |  |  |  |  |  |  |
| 070-26-01 | osdp_XRD             |  |  |  |  |  |  |  |  |  |