

## OSDP Verified Tests

1.50-4			PD	PD	PD	PD	ACU	ACU	ACU	ACU
test id	description	note	Profile: Basic OSDP	Profile: Security Features	Profile: Smart card	Profile: Bio	Profile: Basic OSDP	Profile: Security Features	Profile: Smart 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							
050-09-02		process sequence 0	Required							

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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								
060-10-08	LED Color 6 (Cyan)	TBD, one of 060-09-xx required if PDCAP reports >0 LED; version=2.2								

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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						
060-17-01	osdp_CHLNG	used by secure channel	Optional	Required						
060-18-01	osdp_SCRIPT	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									
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									

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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						
070-12-01	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						
070-18-01	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.								
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									