Current SeaChest Utilities blockpoint release: 30-May-2025

Current SeaCLibs libraries release: 30-May-2025

This background color indicates commands with some amount of data erasure.

Interim release dates:

Features	Options	V3.7.2 Basics	V2.9.2 Configure	V4.7.3 Erase	V4.3.2 Firmware	V3.4.0 Format	V2.4.1 GenericTests	V2.9.1 Info	V1.10.1 Lite	V3.0.2 NVMe	V3.7.1 PowerControl	V3.5.2 Security	V2.6.1 SMART	Constraints
--abortDST		x											x	
--abortIDD													x	Seagate only
--activateFW		x			x									
--ataSecFreeze												x		SATA only
--ataSATsecurityProtocol	enable | disable			x								x		SATA only
--ataSecPassword	"ASCII password" | SeaChest | empty			x								x		SATA only
--ataSecPassType	user | master			x								x		SATA only
--ataSecPWMod	byteswapped | zeropad | spacepad | fpad | leftAlign | rightAlign | uppercase | lowercase | invertcase			x								x		SATA only
--ataSecureErase	normal | enhanced			x								x		SATA only
--ataSecurityInfo												x		SATA only
--bufferTest							x							
--butterflyTest							x							
--calculateFileHash	fwfilename				x									
--captive													x	
--checkPowerMode		x								x	x			
--clearPciErr										x				NVMe only
--confirm	I-understand...	x	x				x		x			x	x	
--conveyanceDST													x	
--csmiInfo								x						
--dcoDisableFeat	wrv / smtCvSt / smtSelSt / fua / tlc / streaming / 48b / hpa / aam / tcg / puis / sec / smtErrLog / smtSt / smart / ssp / asyncNot / ipm / nzBuff / ncq / nvc / nvcpm / wue / tcg / ffc / dsm / trim / epc		x											SATA Only
--dcoFreezeLock			x											SATA Only
--dcoIdentify			x											SATA Only
--dcoRestore			x											SATA Only
--dcoSetMaxLBA	new max LBA		x											SATA Only

Parameter	Value	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	Notes
--dcoSetMaxMode	nodma mwdma0 mwdma1 mwdma1 mwdma2 udma0 udma1 udma2 udma3 udma4 udma5 udma6		x											SATA Only
--defectFormat	shortBlock | 0 xbfi | 1 xchs | 2 longBlock | 3 bfi | 4 chs | 5							x					x	SAS only
--deviceStatistics								x						
--diameterTest	O | M | I						x							
--diameterTestRange	LBA count						x							
--disableAPM											x			SATA only
--disableATASecPW												x		SATA only
--disableCertification						x								SAS only
--disableDataLocking												x		Seagate only
--disablePrimaryList						x								SAS only
--discardGList						x								SAS only
--disableImmediateResponse						x								SAS only
--displayLBA	LBA | maxLBA	x		x		x						x		
--downloadFW	fwfilename	x			x					x	x			
--downloadMode	immediate segmented deferred activate	x			x					x				
--dstAndClean													x	
--EPCfeature	enable | disable										x			
--eraseRestoreMaxPrep				x										
--errorLimit	number | none						x						x	
--extSmartLog											x			NVMe only
--fastFormat	mode			x		x								SAS only
--firmwareSlot	slot#				x					x				
--forceFWDLPassthrough					x									
--foreground													x	
--formatMaxLBA	new Max LBA				x									SAS only
--formatUnit	current new sector size			x		x								SAS only
--fwBufferID	slot#				x					x				
--fwdlConfig	json config filename				x									Seagate only
--fwdlDryRun					x									
--fwdlIgnoreFinalSegment		x			x									
--fwdlInfo					x									
--fwdlPort	lock | unlock											x		Seagate only
--fwdlSegSize	number				x					x				
--genericMode	read write verify						x							
--getFeatures	help | list | #										x			NVMe only
--getNvmeLogPage	error | smart | fwSlots | suppCmds | selfTest | #										x			NVMe only
--getTelemetry	host | ctrl										x			NVMe only
--hideLBACounter		x		x			x							
--hours	hours	x		x			x							
--idd	short | long												x	Seagate only
--idle	enable | disable | default | timerValueMilliseconds										x			SAS only
--idle_a	enable | disable | default | timerValueMilliseconds										x			
--idle_b	enable | disable | default | timerValueMilliseconds										x			
--idle_c	enable | disable | default | timerValueMilliseconds										x			
--ieee1667Port	lock | unlock											x		Seagate only
--longDST													x	

Option	Parameter	1	2	3	4	5	6	7	8	9	10	11	12	Notes
--longGeneric								x						
--lowCurrentSpinup	low | ultra | disable		x											SATA only Seagate only
--lowLevelInfo		x	x	x	x	x	x	x	x	x	x	x	x	
--minutes	minutes	x		x			x							
--newFW	fw rev				x									
--noTimeLimit		x							x				x	
--nvCache	info | enable | disable		x											SAS only
--nvmFmtMetadataSet	xlba | separate			x		x			x					NVMe only
--nvmFmtMS	# of bytes			x		x			x					NVMe only
--nvmFmtNSID	all | current			x		x			x					NVMe only
--nvmFmtPI	0 | 1 | 2 | 3			x		x			x					NVMe only
--nvmFmtPIL	beginning | end			x		x			x					NVMe only
--nvmFmtSecErase	none | user | crypto			x		x			x					NVMe only
--nvmFormat	current | format # | sector size			x		x			x					NVMe only
--outputMode	raw | binary								x					NVMe only
--overwrite	starting LBA | maxLBA	x	x											
--overwriteRange	LBA count	x	x											
--partitionInfo							x							
--pattern	repeat | random | increment | file			x		x								
--pciStats									x					NVMe only
--performQuickestErase			x											
--phySpeed	0 | 1 | 2 | 3 | 4 | 5	x	x											Seagate only for SATA devices
--poll		x		x					x	x			x	
--powerBalanceFeature	info | enable | disable									x				SATA only Seagate only
--powerMeasurementMode	all | 5 | 12									x				Seagate only
--progress	dst, sanitize, format, idd	x		x					x	x			x	
--protectionIntervalExponent	exponent value					x								SAS only
--protectionType	0 | 1 | 2 | 3					x								SAS only
--provision	newMaxLBA maxLBA	x	x											
--psid	DrivePSID			x							x			Seagate only
--puisFeature	enable | disable		x											SATA only
--randomTest						x								
--readLookAhead	info | enable | disable	x	x											
--readyLED	info | on | off | default	x	x											SAS only
--repopulateElements						x								
--restorePhysicalElements						x								
--removeElementModifyZones	element #					x								
--removePhysicalElement	element #					x								
--repairAtEnd							x							
--repairOnFly							x							
--requestPowerMeasurement	seconds to perform measurement									x				Seagate only
--restoreMaxLBA		x	x											
--revert				x							x			Seagate only
--revertSP				x							x			Seagate only
--sanitize	info blockerase cryptoerase overwrite freezelock antifreezelock			x										
--sasPhy	identifier value	x	x							x				SAS only
--sasPhyPartial	info | enable | disable									x				SAS only
--sasPhySlumber	info | enable | disable									x				SAS only
--sataDAPSfeature	info | enable | disable									x				SATA only
--sataDIPMfeature	info | enable | disable									x				SATA only
--scsiLPReset	cumulative | threshold | defCumulative | defThreshold | all		x											SAS only
--scsiLPResetPage	page# | page-subpage#		x											SAS only
--scsiMPReset	page# | page-subpage#		x											SAS only
--scsiMPRestore	page# | page-subpage#		x											SAS only
--scsiMPSave	page# | page-subpage#		x											SAS only
--sctReadTimer	info | value		x											SATA only
--sctWriteCache	info | enable | disable | default		x											SATA only
--sctWriteTimer	info | enable | disable | default		x											SATA only
--sctWriteCacheReordering	info | value		x											SATA only
--seagateClean													x	Seagate only
--seconds	seconds	x		x			x							
--securityInitialize						x								SAS only

Command	Parameter	A	B	C	D	E	F	G	H	I	J	K	L	Notes
--setAPMLevel											x			SATA only
--setMaxLBA	newMaxLBA maxLBA	x	x											
--setMRIE	default | 0 - 6												x	SAS only
--setPowerConsumption	default, highest, intermediate, lowest, watt value										x			SAS only
--setSectorSize	new sector size					x			x					
--setSCSIMP	mp | file		x											SAS only
--setTimestamp			x											
--shortDST		x							x				x	
--shortGeneric						x								
--showAPMLevel											x			SATA only
--showConcurrentRanges								x						
--showDSTLog													x	
--showEPCSettings											x			
--showEraseSupport				x										
--showFormatStatusLog						x								SAS only
--showLockedRegions												x		
--showMPOutputMode	classic | buffer		x											SAS only
--showNVMPowerStates											x			NVMe only
--showPhysicalElementStatus						x								
--showPowerConsumption											x			SAS only
--showPowerTelemetry											x			Seagate only
--showSCSIDefects	p | g | pg							x					x	SAS only
--showSCSIMP	page# | page-subpage#		x											SAS only
--showSCSIMPControl	current | default | saved | changeable | all		x											SAS only
--showSMARTErrorLog	summary | comprehensive												x	SATA only
--showSupportedFormats						x			x	x				
--sid	yourTCGpassword			x								x		
--smartAttributeAutosave	enable | disable												x	SATA only
--smartAttributes	raw | hybrid | analyzed	x						x					x	SATA only
--smartAutoOffline	enable | disable												x	SATA only
--smartCheck		x											x	
--smartErrorLogFormat	raw | detailed												x	SATA only
--smartFeature	enable | disable												x	SATA only
--smartInfo													x	SATA only
--spinDown		x									x			
--sscFeature	info | enable | disable | default		x											SATA only Seagate only
--standby	enable | disable | default | timerValueMilliseconds										x			
--standby_y	enable | disable | default | timerValueMilliseconds										x			
--standby_z	enable | disable | default | timerValueMilliseconds										x			
--stopOnError						x								
--stopOnListError						x								SAS only
--swtchFW				x										NVMe only
--tcgInfo												x		
--telemetryDataArea	1 | 2 | 3										x			NVMe only
--tempStats											x			NVMe only
--transitionPower	active | idle | idleUnload | standby | idle_a | idle_b | idle_c | standby_y | standby_z | sleep										x			
--transitionPowerState	new power state									x	x			NVMe only
--trim	starting LBA | maxLBA	x		x										SATA &NVMe
--trimRange	LBA count	x		x										SATA &NVMe
--twoMinuteGeneric						x								
--udsPort	lock | unlock											x		Seagate only
--unlockATASec												x		SATA only
--unmap	starting LBA | maxLBA	x		x										SAS only
--unmapRange	LBA count	x		x										SAS only
--userGenericRange	LBA count					x								
--userGenericStart	starting LBA | maxLBA					x								
--volatile			x											
--writeCache	info | enable | disable	x	x											
--writeSame	starting LBA | maxLBA			x										
--writeSameRange	LBA count			x										
--zeroVerify	LBA count			x										

Features Common to all tools	Options														Notes
--childModelMatch		x	x	x	x	x	x	x	x		x	x	x		USB Only - not shown in help. Use --modelMatch instead when possible
--childNewFW					x										USB Only - not shown in help. Use --modelMatch instead when possible
--childOnlyFW		x	x	x	x	x	x	x			x	x	x		USB Only - not shown in help. Use --modelMatch instead when possible
--csmiVerbose		x	x	x	x	x	x	x			x	x	x		
-d, --device	deviceHandle	x	x	x	x	x	x	x	x	x	x	x	x		
-i, --deviceInfo		x	x	x	x	x	x	x	x	x	x	x	x		
--echoCommandLine		x	x	x	x	x	x	x			x	x	x		
--enableLegacyUSBPassthrough		x	x	x	x	x	x	x			x	x	x		
--force					x			x							Only works with certain options. Does not guarantee success
--forceATA		x	x	x	x	x	x	x			x	x	x		
--forceATADMA		x	x	x	x	x	x	x			x	x	x		SATA only
--forceATAPIO		x	x	x	x	x	x	x			x	x	x		SATA only
--forceATAUDMA		x	x	x	x	x	x	x			x	x	x		SATA only
--forceSCSI		x	x	x	x	x	x	x			x	x	x		
-h, --help		x	x	x	x	x	x	x	x	x	x	x	x		
--license		x	x	x	x	x	x	x	x	x	x	x	x		
--modelMatch	model Number	x	x	x	x	x	x	x	x		x	x	x		
--onlyFW	fw rev	x	x	x	x	x	x	x			x	x	x		
--onlySeagate		x	x	x	x	x	x	x	x		x	x	x		
-q, --quiet		x	x	x	x	x	x	x		x	x	x	x		
--SATInfo		x	x	x	x	x	x	x			x	x	x		SATA only
-s, --scan, -S, --Scan		x	x	x	x	x	x	x	x	x	x	x	x		
-F, --scanFlags	sd, sgtosd, ata, usb, scsi, nvme, interfaceATA, interfaceUSB, interfaceSCSI, interfaceNVME, ignoreCSMI (Win only), allowDuplicates (Win only)	x	x	x	x	x	x	x		x	x	x	x		Some options are OS specific
--testUnitReady		x	x	x	x	x	x	x			x	x	x		
-v, --verbose	0 | 1 | 2 | 3 | 4	x	x	x	x	x	x	x			x	x	x		
-V, --version		x	x	x	x	x	x	x	x	x	x	x	x		