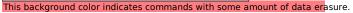# Current SeaChest Utilities blockpoint release: 26-July

Current SeaClibs libraries release: 26-July-2022

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

Interim release dates:

Current versions:

Features	Options	Basics V3.3.1	Configure V2.1.0	Erase V3.2.0	Fimrware V3.1.5	Format V2.4.0	GenericTests v2.0.4	Info v2.1.2	Lite V1.6.0	NVMe V2.0.8	PowerControl V3.1.10	Security v3.0.5	SMART v2.1.1	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						
--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			
--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	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 (Seagate only) verify						x							

Option	Argument	1	2	3	4	5	6	7	8	9	10	11	Notes
--getFeatures	help | list # | error | smart | fwSlots								x				NVMe only
--getNvmeLogPage	| 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	
--longGeneric							x						
--lowCurrentSpinup	low | ultra | disable		x										SATA only Seagate only
--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					NVMe only
--nvmFmtMS	# of bytes					x		x					NVMe only
--nvmFmtNSID	all | current					x		x					NVMe only
--nvmFmtPI	0 | 1 | 2 | 3					x		x					NVMe only
--nvmFmtPIL	beginning | end					x		x					NVMe only
--nvmFmtSecErase	none | user | crypto					x		x					NVMe only
--nvmFormat	current | format # | sector size					x		x					NVMe only
--outputMode	raw | binary								x				NVMe only
--overwrite	starting LBA | maxLBA	x		x									
--overwriteRange	LBA count	x		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							
--removePhysicalElement	element #			x		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									Seagate only
--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

Option	Parameter														Notes
--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
--seagateQuickFormat					x		x								Seagate only, SATA only
--seconds	seconds	x		x		x									
--securityInitialize					x										SAS only
--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
--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
--showPhysicalElementStatus			x	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							
--showSupportedProtectionTypes					x										SAS only
--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

Option	Parameter	1	2	3	4	5	6	7	8	9	10	11	12	Notes
--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										Seagate only
--writeSameRange	LBA count			x										Seagate only

Features Common to all to	**Options**													
--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	x	
--usbChildInfo		x	x	x	x	x	x	x	x		x	x	x	USB Only
-v, --verbose	0 | 1 | 2 | 3 | 4	x	x	x	x	x	x	x		x	x	x	x	
-V, --version		x	x	x	x	x	x	x	x	x	x	x	x	