## Current SeaChest Utilities blockpoint release: 1-December-2023

Current SeaCLibs libraries release: 1-December-2023

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

Interim release dates:



V4.3.6 V2.5.0 V4.0.0 V3.0.4 V2.2.2 V2.5.0 V1.9.2 **Current versions:** GenericTests SMART **Options Features Constraints** -abortDST Χ Х -abortIDD Seagate only -activateFW -ataSecFreeze SATA only enable | disable -ataSATsecurityProtocol Х SATA only "ASCII password" | -ataSecPassword SATA only SeaChest | empty -ataSecPassType user | master SATA only Х Х byteswapped | zeropad | spacepad | SATA only -ataSecPWMod fpad | leftAlign | Χ Χ rightAlign | uppercase | lowercase | invertcase -ataSecureErase normal | enhanced Х SATA only -ataSecurityInfo Х SATA only -bufferTest Х -butterflyTest Х -calculateFileHash fwfilename -captive Χ -checkPowerMode -clearPciErr NVMe only -confirm I-understand... Χ Х Х Х -conveyanceDST Х -csmiInfo Х SATA Only wrv smtCvSt smtSelSt fua tlc streaming 48b hpa aam tcg puis sec smtErrLog smtSt -dcoDisableFeat Х smart ssp asyncNot ipm nzBuff ncq nvc nvcpm wue tcg ffc dsm trim ерс SATA Only -dcoFreezeLock -dcoldentify Х SATA Only -dcoRestore Х SATA Only -dcoSetMaxLBA SATA Only new max LBA

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errorLimit	number   none						Х						Х	
extSmartLog										х				NVMe only
fastFormat	mode			х		х								SAS only
firmwareSlot	slot#				х					Х				
forceFWDLPassthrough					х									
foreground													Х	
formatMaxLBA	new Max LBA					Х								SAS only
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formatUnit	new sector size			х		х								SAS only
for Doff and D					-									
fwBufferID	slot#				Х					Х				
fwdlConfig	json config filename				Х									Seagate only
fwdlDryRun					Х									
fwdllgnoreFinalSegment		X			Х									
fwdlInfo					х									
fwdlPort	lock   unlock											Х		Seagate only
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minutes	minutes	Х		Х			Х						Ш	
newFW	fw rev				Х								Ш	
noTimeLimit		X							Х				Х	
nvCache	info   enable   disable		Х											SAS only
nvmFmtMetadataSet	xlba   separate			х		х				х				NVMe only
nvmFmtMS	# of bytes			х		х				х				NVMe only
nvmFmtNSID	all   current			х		х				х				NVMe only
nvmFmtPl	0   1   2   3			х		х				х				NVMe only
nvmFmtPIL	beginning   end			х		х				х				NVMe only
nvmFmtSecErase	none   user   crypto			х		х				х				NVMe only
	current   format #												П	
nvmFormat	sector size			х		х				х				NVMe only
outputMode	raw   binary									х			Н	NVMe only
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powerMeasurementMode	all   5   12										Х			Seagate only
progress	dst, sanitize, format, idd	х		х					х	Х			х	
protectionIntervalExponent	exponent value					х								SAS only
protectionType	0   1   2   3					х								SAS only
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psid	DrivePSID			х								Х	Н	Seagate only
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sasPhySlumber	info   enable   disable										Х		$\Box$	SAS only
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and DRanks	defThreshold   all		_		-	1		1	_	<u> </u>	<u> </u>		$\square$	CAC arely
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scsiMPReset	page#   page-subpage#		Х		_	1		1	_	_	<u> </u>			SAS only
scsiMPRestore	page#   page-subpage#		Х											SAS only
scsiMPSave	page#   page-subpage#		Х										Ш	SAS only
sctReadTimer	info   value		Х											SATA only
sctWriteCache	info   enable   disable		x											SATA only
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-setAPMLevel -setMaxLBA -setMRIE  -setMRIE  -setPowerConsumption  -setPowerConsumption  -setSectorSize -setScSIMP -setPomerConsumption  -setSectorSize  -setScSIMP -setPomerConsumption  -setSectorSize  -setScSIMP -setPowerConsumption  -setSectorSize  -setScSIMP -setScSIMP -setScSIMP -shortGeneric -showAPMLevel -showConcurrentRanges -showDattlog -showDattlog -showDattlog -showPCSettings -showPCSettings -showPCSettings -showPOwerConsumption -showPOwerStates -showPOwerConsumption -showPOwerTelemetry -showPowerConsumption -showPowerTelemetry -showSCSIMP -spage#  page-subpage# -showSCSIMP -spage#  page-subpage# -showSCSIMP -show	x	x	SATA only  SAS only  SAS only  SAS only  SAS only  SAS only  NVMe only
setMRIE	x	x	SAS only SAS only SAS only SAS only SAS only NVMe only
maxLBA  default   0 - 6  default, highest, intermediate, lowest, watt value	x	x	SAS only  SAS only  SAS only  SAS only  NVMe only
setPowerConsumption   default, highest, intermediate, lowest, watt value   v	x	x	SAS only  SAS only  SAS only  SAS only  NVMe only
setPowerConsumption intermediate, lowest, watt value	x	X	SAS only  SAS only  SAS only  NVMe only
-setSectorSize new sector size -setSCSIMP mp   file -shortDST -shortGeneric -showAPMLevel -showConcurrentRanges -showBPCSettings -showEPCSettings -showFraseSupport -showFraseSupport -showMPOutputMode -showNVMPOutputMode -showNVMPOwerStates -showMPMscalElementStatus -showPowerConsumption -showPowerConsumption -showScSIMP -showSupportedFormats -showPowerConsumption -showDowerTelemetry -showScSimp -showScSimp -showScSimp -showScSimp -showScSimp -showScSimp -showScSimp -showSupportedFormats -sid -smartAttributeautosave -smartAttributes -smart	x	X	SAS only  SAS only  SAS only  NVMe only
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showFormatStatusLogshowLockedRegionsshowMPOutputModeshowPhysicalElementStatusshowPowerConsumptionshowPowerTelemetryshowSCSIDefectsshowSCSIMPshowSCSIMPshowSCSIMPshowSCSIMPshowSMARTErrorLogshowSupportedFormatssidsmartAttributeAutosavesmartAttributeAutosavesmartAttributeSsmartAttributeSsmartAttributeSsmartAttriOefflinesmartChecksmartFeaturesmartFeaturesmartInfospinDownsscFeature	x x x	x	SAS only NVMe only
showLockedRegionsshowMPOutputMode classic   buffershowNVMPowerStatesshowPowerConsumptionshowPowerTelemetryshowSCSIDefects p   g   pgshowSCSIMP page#   page-subpage#showSCSIMP current   default   saved   changeable   all   x	x x x	x	SAS only NVMe only
showMPOutputMode classic   buffer	x x x	x	NVMe only
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sid yourTCGpasswordsmartAttributeAutosave enable   disablesmartAttributes raw   hybrid   analyzedsmartChecksmartErrorLogFormat raw   detailedsmartFeature enable   disablesmartInfospinDownsscFeature info   enable   disable   x standbystandby  x			4
smartAttributeAutosave enable   disablesmartAttributes raw   hybrid   analyzedsmartChecksmartChecksmartErrorLogFormat raw   detailedsmartFeature enable   disablesmartInfospinDownsscFeature info   enable   disable   x standbystandby  enable   disable   default			4
smartAttributes raw   hybrid   analyzed	Х		CATA colo
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smartChecksmartErrorLogFormat raw   detailedsmartFeature enable   disablesmartInfospinDownsscFeature info   enable   disable   x		X	SATA only
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smartFeature enable   disablesmartInfospinDownsscFeature info   enable   disable		X	SATA only
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spinDownsscFeature info   enable   disable		X	SATA Only
sscFeature info   enable   disable   x   enable   disable   default	x	<del>  ^</del>	3ATA OTHY
sscFeature default xstandby enable   disable   default	^		SATA only
Istandny			Seagate only
	x		
standby_y enable   disable   default   timerValueMilliseconds	x		
standby_z enable   disable   default     timerValueMilliseconds	×		
stopOnError x			
stopOnListError x			SAS only
swtchFW x			NVMe only
tcgInfo	х		1
telemetryDataArea 1   2   3 x			NVMe only
tempStats x			NVMe only
transitionPower standby   idle_a   idle_b   standby_y   standby_z   sleep	x		
transitionPowerState new power state x	х		NVMe only
trim starting LBA   maxLBA			SATA &NVMe
trimRange LBA count x x			SATA &NVMe
twoMinuteGeneric x			
udsPort lock   unlock	х		Seagate only
unlockATASec	Х		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	Х	Х											
writeSame	starting LBA   maxLBA	1		х										1
writeSameRange	LBA count			Х										1
zeroVerify	LBA count			Х										1
,	•													
eatures Common to all tools	Options	]												
childModelMatch		х	Х	Х	Х	Х	Х	Χ	Χ		Х	Х	Х	USB Only - not shown in help. UsemodelMatch instead
-childNewFW					Х									USB Only - not shown in help. UsemodelMatch instead v
-childOnlyFW		х	Х	Х	Х	Х	Х	Х			Х	Х	Х	USB Only - not shown in help. UsemodelMatch instead v
-csmiVerbose		Х	Х	Х	Х	Х	Х	Х			Х	Х	Х	
d,device	deviceHandle	х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	
i,deviceInfo		х	Х	Х	х	Х	Х	Х	Х	Х	Х	Х	Х	
echoCommandLine		Х	Х	Х	х	Х	Х	Х			Х	Х	Х	
enableLegacyUSBPassthrough		Х	Х	Х	х	Х	Х	Х			Х	Х	Х	
force						Х			Х					Only works with certain options. Does not guarantee succe
forceATA		х	Х	х	х	Х	Х	Х			Х	Х	Х	
forceATADMA		х	Х	х	х	Х	Х	Х			Х	Х	Х	SATA only
forceATAPIO		х	Х	х	х	Х	Х	Х			Х	Х	Х	SATA only
forceATAUDMA		х	Х	х	х	Х	Х	Х			Х	Х	Х	SATA only
-forceSCSI		х	Х	Х	х	Х	Х	Х			Х	Х	Х	
h,help		х	Х	Х	х	Х	Х	Х	Х	Х	Х	Х	Х	
-license		х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	
-modelMatch	model Number	Х	Х	Х	Х	Х	Х	Х	Х		х	Х	Х	
onlyFW	fw rev	х	Х	Х	Х	Х	Х	Х			Х	Х	Х	
-onlySeagate		х	Х	Х	х	Х	Х	Х	Х		Х	Х	Х	
q,quiet		х	Х	Х	х	Х	Х	Х		Х	Х	Х	Х	1
-SATInfo		х	Х	Х	х	Х	Х	Х			Х	Х	Х	SATA only
s,scan, -S,Scan		X	х	х	х	Х	х	х	х	х	Х	х	х	
	sd, sgtosd, ata, usb, scsi, nvme, interfaceATA, interfaceUSB,													
-F,scanFlags	interfaceSCSI,	l l x	х	х	х	х	х	х		х	х	х	х	Some options
,	: nt nuf n n N N A F		1	'	^						1	''	^	are OS specific

are OS specific

interfaceNVME,

0 | 1 | 2 | 3 | 4

--testUnitReady

-v, --verbose

-V, --version

ignoreCSMI (Win only), allowDuplicates (Win only)

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Х х Х Х

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