Current SeaCLibs libraries release: 1_19_23 (10-June-2019)

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



	Current versions:	v2.8.0	v1.17.0	v2.0.1	v2.7.0	v1.4.0	v1.8.0	v1.5.0	v1.2.0	v1.0.0	v1.10.0	v2.0.1	v1.12.0		
Features	Options	Basics	_Configure	Erase	Fimrware	Format	GenericTests	_Info	_Lite	NVMe	PowerControl	Security	SMART		<u>Constraints</u>
abortDST		х											Х		
abortIDD													х		Seagate only
activateFW		x			х										Seagate only
active											х			-	,
ataSecFreeze												Х		-	SATA only
ataSATsecurityProtocol	enable disable			х								Х			SATA only
ataSecPassword	"ASCII password" SeaChest empty			х								х			SATA only
ataSecPassType	user master			х								х			SATA only
atasecrass type	user master			^								^		-	3ATA OHIY
ataSecPWMod	byteswapped zeropad spacepad fpad leftAlign rightAlign uppercase lowercase invertcase			x								x			SATA only
ataSecureErase	normal enhanced			х								х			SATA only Seagate only
ataSecurityInfo												Х			SATA only
bufferTest							х								
butterflyTest							х								
calculateFileHash	fwfilename				х										
captive													Х		
changePower											Х				
checkPowerMode		х								х	х				
clearPciErr										Х					NVMe only
confirm	I-understand	х		х			х		Х			х	Х		
conveyanceDST													Х		
csmilnfo								х							Windows only
defaultMode											Х				
defectFormat	shortBlock 0 xbfi 1 xchs 2 longBlock 3 bfi 4 chs 5							х					x		SAS only
deviceStatistics								х							
diameterTest	0 M I						Х								
diameterTestRange	LBA count						х							-	
disableAPM											Х				SATA only
disableATASecPW												Х			SATA only
disableCertification						Х									SAS only
disableDataLocking												Х			Seagate only
disableMode											Х				,
		_												-	*

Current SeaCLibs libraries release: 1_19_23 (10-June-2019)

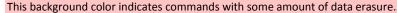
This background color indicates commands with some amount of data erasure.

Interim release dates:



v1.12.0 **v**2.8.0 v1.8.0 v1.0.0 /2.0.1 /2.0.1 **Current versions:** Configu Fimrwar Security SMART **Features Options Constraints** -disablePrimaryList SAS only -discardGList SAS only Х --disableImmediateResponse Х SAS only LBA | maxLBA --displayLBA Х х х Х --downloadFW fwfilename Х Х Х Х Seagate only immediate segmented --downloadMode Seagate only Х Х deferred activate --dstAndClean Х --enableMode --EPCfeature enable | disable --errorLimit number Х Х --extSmartLog Х NVMe only SAS only --fastFormat mode Х Seagate only --firmwareSlot slot# Х Х --forceFWDLPassthrough Х Seagate only --foreground Х SAS only current --formatUnit Seagate only new sector size --fwBufferID slot# config filename --fwdlConfig х Seagate only --fwdlDryRun Х --fwdlInfo х --fwdlPort lock | unlock х Seagate only --fwdlSegSize number Seagate only Х Х read Seagate only on write (Seagate only) --genericMode х write option verify help | list | # --getFeatures NVMe only Х Error | SMART | FWSlots | -getLogPage Х NVMe only SuppCmds | SelfTest | # -getTelemetry host | ctrl Х NVMe only --hideLBACounter Х х -hours hours Х Х Х SATA only --idd short | long Х Seagate only -idle --idleUnload Х -ieee1667Port lock | unlock х Seagate only -longDST

Current SeaCLibs libraries release: 1_19_23 (10-June-2019)

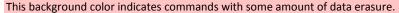


Interim release dates:



v2.8.0 v1.0.0 /2.0.1 /2.0.1 **Current versions:** Security Configu SMART **Features Options Constraints** --longGeneric SATA only --lowCurrentSpinup low | ultra | disable Х Seagate only --minutes minutes х х --modeTimer milliseconds Х -newFW fw rev Х --nvmFmtMetadataSet xlba | separate NVMe only Х -nvmFmtMS # of bytes Х Х NVMe only --nvmFmtNSID all | current х NVMe only Х --nvmFmtPl 0 | 1 | 2 | 3 NVMe only Х Х beginning | end --nvmFmtPIL Х **NVMe only** Х none | user | crypto --nvmFmtSecErase Х NVMe only Х current | format # | sector --nvmFormat NVMe only -outputMode raw | binary NVMe only starting LBA | maxLBA -overwrite х х Seagate only Х --overwriteRange LBA count Х Seagate only repeat, random, increment, Seagate only --pattern Х file -pciStats NVMe only Х --performQuickestErase Seagate only Х 0 | 1 | 2 | 3 | 4 | 5 --phySpeed Seagate only Х on | off | default --pin11 SAS only Х Х --poll Х Х Х Х SATA only --powerBalanceFeature info, enable, disable Х Seagate only --powerMode power mode Х -progress dst, sanitize, format, idd Х Х х Х --protectionIntervalExponent exponent value SAS only Х --protectionType 0 | 1 | 2 | 3 Х SAS only newMaxLBA --provision Х Х Seagate only maxLBA DrivePSID --psid Х Х Seagate only SATA only enable | disable --puisFeature Х Seagate only --randomTest х --readLookAhead info, enable, disable Х --readyLED info | on | off | default Х SAS only Х --removePhysicalElement element# Seagate only х --repairAtEnd Seagate only Х --repairOnFly Х Seagate only --restoreMaxLBA Х Х -revert Seagate only

Current SeaCLibs libraries release: 1_19_23 (10-June-2019)

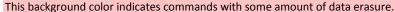


Interim release dates:



v2.8.0 v1.0.0 /2.0.1 /2.0.1 **Current versions:** Security Configu SMART **Features Options Constraints** -revertSP Seagate only info blockerase cryptoerase --sanitize Seagate only overwrite freezelock antifreezelock --sasPhy identifier value Х Х --sataDAPSfeature info, enable, disable SATA only --sataDIPMfeature info, enable, disable SATA only Х cumulative | threshold | SAS only --scsiLPReset defCumulative | Х Seagate only defThreshold | all SAS only --scsiLPResetPage page# | page-subpage# Х Seagate only SAS only --scsiMPReset page# | page-subpage# Х Seagate only SAS only --scsiMPRestore page# | page-subpage# Х Seagate only SAS only --scsiMPSave page# | page-subpage# Seagate only SATA only --sctReadTimer info | value Х Seagate only SATA only --sctWriteCache info, enable, disable, default Х Seagate only SATA only --sctWriteTimer info, enable, disable, default х Seagate only SATA only --sctWriteCacheReordering info | value Х Seagate only --seagateClean х Seagate only --seconds seconds Х Х Х --securityInitialize SAS only Х --setAPMLevel Х SATA only newMaxLBA --setMaxLBA maxLBA SAS only --setMRIE default | 0 - 6 Х Seagate only default, highest, SAS only intermediate, lowest, watt --setPowerConsumption х Seagate only new sector size -setSectorSize Х Х Seagate only SAS only -setSCSIMP mp | file Х Seagate only

Current SeaCLibs libraries release: 1_19_23 (10-June-2019)





Interim release dates: **v**2.8.0 v1.8.0 v1.0.0 /2.0.1 /2.0.1 **Current versions:** Security **Features Options Constraints** -shortDST Х --shortGeneric Х --showAPMLevel Х SATA only --showDSTLog Х --showEPCSettings Х --showEraseSupport Х --showFormatStatusLog SAS only Х -showLockedRegions Х -showMPOutputMode classic | buffer Х SAS only --showPhysicalElementStatus --showPowerConsumption SAS only Х --showSCSIDefects Х SAS only p, g, pg --showSCSIMP SAS only page# | page-subpage# Х current | default | --showSCSIMPControl х SAS only saved | changeable | all --showSMARTErrorLog summary | comprehensive Х SATA only --showSupportedFormats Х х Х --showSupportedProtectionTypes Х SAS only -sid yourTCGpassword х Seagate only Х SATA only --smartAttributeAutosave enable | disable Х Seagate only --smartAttributes raw | analyzed Х Х Х SATA only SATA only --smartAutoOffline enable | disable Х Seagate only --smartCheck Х Х --smartErrorLogFormat raw | detailed х SATA only SATA only enable | disable --smartFeature х Seagate only --smartInfo Х SATA only --spinDown Х Х SATA only --sscFeature info, enable, disable, default Seagate only --standby х --stopOnError Х -stopOnListError SAS only Х -swtchFW Х NVMe only -tcgInfo Х --telemetryDataArea 1 | 2 | 3 NVMe only Х NVMe only --tempStats Х --transitionPower Х -transitionPowerState new power state NVMe only

Current SeaCLibs libraries release: 1_19_23 (10-June-2019)

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



Interim release dates:

Current versions:

Output

Current versions:

Outpu

	Current versions:	۷2.8.0	v1.17.	v2.0.1	v2.7.0	v1.4.0	v1.8.0	v1.5.0	v1.2.0	v1.0.0	v1.10.	v2.0.1	v1.12.	
Features	Options	Basics	Configure	Erase	Fimrware	Format	GenericTests	Info	Lite	NVMe	PowerControl	Security	SMART	Constraints
trim	starting LBA maxLBA	х		х										SATA and NVMe Seagate only
trimRange	LBA count	х		х										SATA and NVMe Seagate only
twoMinuteGeneric							Х							
udsPort	lock unlock											Х		Seagate only
unlockATASec												Х		SATA only
unmap	starting LBA maxLBA	х		х										SAS only Seagate only
unmapRange	LBA count	х		х										SAS only Seagate only
userGenericRange	LBA count						Х							
userGenericStart	starting LBA maxLBA						Х							
volatile			Х											
writeCache	info, enable, disable	Х	Х											
writeSame	starting LBA maxLBA			Х										Seagate only
writeSameRange	LBA count			Х										Seagate only

Ontions
Options
_
deviceHandle
model Number
fw rev

Х	Х	Х	Х	Х	х	х	х		Х	х	Х
Х	Х	Х	Х	Х	Х	Х			Х	х	Х
Х	х	Х	Х	Х	х	х			х	х	Х
Х	х	Х	Х	Х	х	х			х	х	Х
Х	х	Х	Х	Х	х	х			х	х	Х
Х	Х	Х	Х	Х	Х	Х			Х	х	Х
Х	Х	Х	Х	Х	Х	Х	х	Х	Х	х	Х
Х	Х	Х	Х	Х	Х	Х	х	Х	Х	х	Х
Х	Х	Х	Х	Х	Х	Х			Х	х	Х
Х	Х	Х	Х	Х	Х	Х			Х	х	Х
Х	Х	Х	Х	Х	Х	Х			Х	х	Х
Х	Х	Х	Х	Х	Х	Х			Х	х	Х
Х	Х	Х	Х	Х	Х	Х			Х	х	Х
Х	Х	Х	Х	Х	Х	Х			Х	х	Х
Х	Х	Х	Х	Х	Х	Х			Х	х	Х
Х	Х	Х	Х	Х	Х	Х	х	Х	Х	х	Х
Х	Х	Х	Х	Х	Х	Х	х	Х	Х	х	Х
Х	Х	Х	Х	Х	Х	Х	х		Х	х	Х
Х	Х	Х	Х	Х	Х	Х			Х	х	Х
Х	Х	Х	Х	Х	Х	Х	Х		Х	Х	Х
Х	Х	Х	Х	Х	Х	Х		Х	Х	Х	Х
Х	Х	Х	Х	Х	Х	Х			Х	Х	Х
Х	Х	Х	Х	Х	Х	Х			Х	Х	Х

USB Only USB Only USB Only Windows only Windows only Windows only

SATA only SATA only SATA only

SATA only

Current SeaCLibs libraries release: 1_19_23 (10-June-2019)

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



	Interim release dates:													_	SEAGATE
	Current versions:	v2.8.0	v1.17.0	v2.0.1	v2.7.0	v1.4.0	v1.8.0	v1.5.0	v1.2.0	v1.0.0	v1.10.0	v2.0.1	v1.12.0		
Features	Options	Basics	_Configure	Erase	_Fimrware	Format	GenericTests	Info	_Lite	NVMe	_PowerControl	Security	SMART		Constraints
-s,scan, -S,Scan		х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х		
-F,scanFlags	sd, sgtosd, ata, usb, scsi, interfaceATA, interfaceUSB, interfaceSCSI, ignoreCSMI (Win only), allowDuplicates (Win only)	x	х	х	х	х	х	х		х	х	x	x		
testUnitReady		х	Х	Х	Х	Х	Х	Х		Х	Х	Х	Х		
usbChildInfo		Х	Х	Х	Х	Х	Х	Х	Х		Х	Х	Х		USB Only
-v,verbose	0 1 2 3 4	Х	Х	Х	Х	Х	Х	Х		Х	Х	Х	Х		
-V,version		х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	х		