

Current SeaChest Utilities blockpoint release: 27-March-2023

Current SeaCLibs libraries release: 27-March-2023

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



Interim release dates:

| Features | Options | Current versions: | | | | | | | | | | | Constraints |
|----------------------------|---|-------------------|-----------|--------|----------|--------|--------------|--------|--------|--------|--------------|----------|--------------|
| | | V3.5.2 | V2.3.1 | V4.1.0 | V3.4.0 | V2.7.0 | V2.2.1 | V2.3.1 | V1.9.0 | V2.2.2 | V3.2.1 | V3.2.1 | |
| | | Basics | Configure | Erase | Firmware | Format | GenericTests | Info | Lite | NVMe | PowerControl | Security | SMART |
| --abortDST | | x | | | | | | | | | | x | Seagate only |
| --abortIDD | | | | | | | | | | | | x | |
| --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 | | NVMe only |
| --clearPciErr | | | | | | | | | | x | | | |
| --confirm | I-understand... | x | x | | | x | | x | | | x | x | |
| --conveyanceDST | | | | | | | | | | | | x | |
| --csmlInfo | | | | | | | | 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 | | | |

[illegible]

| | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|--|---|---|---|-------------------------|
| --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 |
| --seagateQuickFormat | | | | | x | | | x | | | Seagate only, SATA only |
| --seconds | seconds | x | x | | x | | | | | | |
| --securityInitialize | | | | x | | | | | | | SAS only |
| --setAPMLLevel | | | | | | | | 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 | | | | | | |
| --showAPMLLevel | | | | | | | | | x | | SATA only |
| --showConcurrentRanges | | | | | | x | | | | | |
| --showDSTLog | | | | | | | | | | | x |
| --showEPSettings | | | | | | | | | x | | |
| --showEraseSupport | | | x | | | | | | | | |
| --showFormatStatusLog | | | | | x | | | | | | |
| --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 |
| --showsCSIMP | page# page-subpage# | x | | | | | | | | | SAS only |
| --showsCSIMPControl | current default saved changeable all | x | | | | | | | | | SAS only |
| --showSMARTErrorLog | summary comprehensive | | | | | | | | | | x |
| --showSupportedFormats | | | | | x | | | x | x | | |
| --showSupportedProtectionTypes | | | | | x | | | | | | SAS only |
| --sid | yourTCGpassword | | x | | | | | | | x | |
| --smartAttributeAutosave | enable disable | | | | | | | | | | x |
| --smartAttributes | raw hybrid analyzed | x | | | | x | | | | | x |
| --smartAutoOffline | enable disable | | | | | | | | | | x |
| --smartCheck | | x | | | | | | | | | x |
| --smartErrorLogFormat | raw detailed | | | | | | | | | | x |
| --smartFeature | enable disable | | | | | | | | | | x |
| --smartInfo | | | | | | | | | | | x |
| --spinDown | | x | | | | | | | x | | |
| --sscFeature | info enable disable default | | x | | | | | | | | |
| --standby | enable disable default timerValueMilliseconds | | | | | | | | x | | |
| --standby_y | enable disable default timerValueMilliseconds | | | | | | | | x | | |
| --standby_z | enable disable default timerValueMilliseconds | | | | | | | | x | | |
| --stopOnError | | | | | | x | | | | | |
| --stopOnListError | | | | | | x | | | | | |
| --switchFW | | | | x | | | | | | | |
| --tcglInfo | | | | | | | | | | | 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 | |
| --trim | starting LBA maxLBA | x | x | | | | | | | | |

| Features Common to all tools | | Options | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---------|------------------------------|--|---------|-------------------|--|--|--------------|--|--|---------------|--|--|---------------|--|--|--------------|--------------|--|------------------|--|--|-------------------|--|--|------------------------------|--|--|---------|--|--|------------|--|--|---------------|--|--|---------------|--|--|----------------|--|--|-------------|--|--|------------|--|--|-----------|--|--|--------------|--------------|--|----------|--------|--|---------------|--|--|-------------|--|--|-----------|--|--|------------------------|--|--|-----------------|---|--|-----------------|--|--|----------------|--|--|---------------|-------------------|--|---------------|--|--|
| --trimRange | LBA count | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --twoMinuteGeneric | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --udsPort | lock unlock | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --unlockATASec | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --unmap | starting LBA maxLBA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --unmapRange | LBA count | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --userGenericRange | LBA count | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --userGenericStart | starting LBA maxLBA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --volatile | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --writeCache | info enable disable | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --writeSame | starting LBA maxLBA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --writeSameRange | LBA count | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="2">Features Common to all tools</th> <th>Options</th> </tr> </thead> <tbody> <tr> <td>--childModelMatch</td> <td></td> <td></td> </tr> <tr> <td>--childNewFW</td> <td></td> <td></td> </tr> <tr> <td>--childOnlyFW</td> <td></td> <td></td> </tr> <tr> <td>--csmiVerbose</td> <td></td> <td></td> </tr> <tr> <td>-d, --device</td> <td>deviceHandle</td> <td></td> </tr> <tr> <td>-i, --deviceInfo</td> <td></td> <td></td> </tr> <tr> <td>--echoCommandLine</td> <td></td> <td></td> </tr> <tr> <td>--enableLegacyUSBPassthrough</td> <td></td> <td></td> </tr> <tr> <td>--force</td> <td></td> <td></td> </tr> <tr> <td>--forceATA</td> <td></td> <td></td> </tr> <tr> <td>--forceATADMA</td> <td></td> <td></td> </tr> <tr> <td>--forceATAPIO</td> <td></td> <td></td> </tr> <tr> <td>--forceATAUDMA</td> <td></td> <td></td> </tr> <tr> <td>--forceSCSI</td> <td></td> <td></td> </tr> <tr> <td>-h, --help</td> <td></td> <td></td> </tr> <tr> <td>--license</td> <td></td> <td></td> </tr> <tr> <td>--modelMatch</td> <td>model Number</td> <td></td> </tr> <tr> <td>--onlyFW</td> <td>fw rev</td> <td></td> </tr> <tr> <td>--onlySeagate</td> <td></td> <td></td> </tr> <tr> <td>-q, --quiet</td> <td></td> <td></td> </tr> <tr> <td>--SATInfo</td> <td></td> <td></td> </tr> <tr> <td>-s, --scan, -S, --Scan</td> <td></td> <td></td> </tr> <tr> <td>-F, --scanFlags</td> <td>sd, sgtosd, ata, usb, scsi, nvme, interfaceATA, interfaceUSB, interfaceSCSI, interfaceNVME, ignoreCSMI (Win only), allowDuplicates (Win only)</td> <td></td> </tr> <tr> <td>--testUnitReady</td> <td></td> <td></td> </tr> <tr> <td>--usbChildInfo</td> <td></td> <td></td> </tr> <tr> <td>-v, --verbose</td> <td>0 1 2 3 4</td> <td></td> </tr> <tr> <td>-V, --version</td> <td></td> <td></td> </tr> </tbody> </table> | | | Features Common to all tools | | Options | --childModelMatch | | | --childNewFW | | | --childOnlyFW | | | --csmiVerbose | | | -d, --device | deviceHandle | | -i, --deviceInfo | | | --echoCommandLine | | | --enableLegacyUSBPassthrough | | | --force | | | --forceATA | | | --forceATADMA | | | --forceATAPIO | | | --forceATAUDMA | | | --forceSCSI | | | -h, --help | | | --license | | | --modelMatch | model Number | | --onlyFW | fw rev | | --onlySeagate | | | -q, --quiet | | | --SATInfo | | | -s, --scan, -S, --Scan | | | -F, --scanFlags | sd, sgtosd, ata, usb, scsi, nvme, interfaceATA, interfaceUSB, interfaceSCSI, interfaceNVME, ignoreCSMI (Win only), allowDuplicates (Win only) | | --testUnitReady | | | --usbChildInfo | | | -v, --verbose | 0 1 2 3 4 | | -V, --version | | |
| Features Common to all tools | | Options | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --childModelMatch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --childNewFW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --childOnlyFW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --csmiVerbose | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -d, --device | deviceHandle | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -i, --deviceInfo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --echoCommandLine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --enableLegacyUSBPassthrough | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --force | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --forceATA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --forceATADMA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --forceATAPIO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --forceATAUDMA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --forceSCSI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -h, --help | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --license | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --modelMatch | model Number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --onlyFW | fw rev | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --onlySeagate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -q, --quiet | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --SATInfo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -s, --scan, -S, --Scan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -F, --scanFlags | sd, sgtosd, ata, usb, scsi, nvme, interfaceATA, interfaceUSB, interfaceSCSI, interfaceNVME, ignoreCSMI (Win only), allowDuplicates (Win only) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --testUnitReady | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --usbChildInfo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -v, --verbose | 0 1 2 3 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -V, --version | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SATA & NVMe

Seagate only

SATA only

SAS only

SAS only

Seagate only

Seagate only

USB Only - not shown in help. Use --modelMatch instead when possible

USB Only - not shown in help. Use --modelMatch instead when possible

USB Only - not shown in help. Use --modelMatch instead when possible

Only works with certain options. Does not guarantee success

SATA only

SATA only

SATA only

SATA only

SATA only

Some options are OS specific

USB Only