**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.

SEAGATE

Interim release dates:

Current versions:

| Features | Options | Basics V3.5.4 | Configure V2.5.0 | Erase V4.3.6 | Fimrware V4.0.0 | Format V3.0.4 | GenericTests V2.2.2 | Info V2.5.0 | Lite V1.9.2 | NVMe V2.3.0 | PowerControl V3.4.0 | Security V3.3.0 | SMART V2.3.2 | 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 | | | | | | SATA Only |
| --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 | | | | | | | | | | | |
| --dcoFreezeLock | | | x | | | | | | | | | | | SATA Only |
| --dcoIdentify | | | x | | | | | | | | | | | SATA Only |
| --dcoRestore | | | x | | | | | | | | | | | SATA Only |
| --dcoSetMaxLBA | new max LBA | | x | | | | | | | | | | | SATA Only |

| Option | Parameter | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| --dcoSetMaxMode | nodma<br>mwdma0<br>mwdma1<br>mwdma1<br>mwdma2<br>udma0<br>udma1<br>udma2<br>udma3<br>udma4<br>udma5<br>udma6 | | x | | | | | | | | | | | SATA Only |
| --defectFormat | shortBlock \| 0<br>xbfi \| 1<br>xchs \| 2<br>longBlock \| 3<br>bfi \| 4<br>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<br>segmented<br>deferred<br>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<br>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<br>write<br>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 | | | |

| Command | Argument | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| --ieee1667Port | lock \| unlock | | | | | | | | | | x | | | Seagate only |
| --longDST | | | | | | | | | | | | | x | |
| --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 | | | | | | | | |
| --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 |

| Feature | Parameter | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| --seagateClean |  |  |  |  |  |  |  |  |  |  |  |  | x | Seagate only |
| --seconds | seconds | x |  | x |  |  | x |  |  |  |  |  |  |  |
| --securityInitialize |  |  |  |  |  | x |  |  |  |  |  |  |  | SAS only |
| --setAPMLevel |  |  |  |  |  |  |  |  |  |  | x |  |  | SATA only |
| --setMaxLBA | newMaxLBA<br>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 |
| --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<br>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 |  |  |  |  |  |  |  |  |  |  |  |

| Feature | Options | | | | | | | | | | | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| --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 | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| --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 | |
| --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 | |
| -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 | |