

Current SeaChest Utilities blockpoint release: 25-Feb-2021

Current SeaCLibs libraries release: 25-Feb-2021

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

Interim release dates:



SEAGATE

|                            | Current versions:   |        |           |       |          |        |              |      |      |      |              |          |       |  |
|----------------------------|---|--------|-----------|-------|----------|--------|--------------|------|------|------|--------------|----------|-------|--|
| Features                   | Options   | Basics | Configure | Erase | Firmware | Format | GenericTests | Info | Lite | NVMe | PowerControl | Security | SMART | Constraints  |
| --abortDST                 |   | x      |           |       |          |        |              |      |      |      |              |          | x     | Seagate only                                       |
| --abortIDD                 |   |        |           |       |          |        |              |      |      |      |              |          | x     |  |
| --activateFW               |   | x      |           |       | x        |        |              |      |      |      |              |          |       |  |
| --ataSecFreeze             |   |        |           |       |          |        |              |      |      |      |              |          | x     |  |
| --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<br>Seagate only                          |
| --ataSecurityInfo          |   |        |           |       |          |        |              |      |      |      |              | x        |       | SATA only  |
| --bufferTest               |   |        |           |       |          |        | x            |      |      |      |              |          |       |  |
| --butterflyTest            |   |        |           |       |          |        | x            |      |      |      |              |          |       |  |
| --calculateFileHash        | fwfilename  |        |           |       | x        |        |              |      |      |      |              |          |       | NVMe only  |
| --captive                  |   |        |           |       |          |        |              |      |      |      |              |          | x     |  |
| --checkPowerMode           |   | x      |           |       |          |        |              |      |      | x    | x            |          |       |  |
| --clearPciErr              |   |        |           |       |          |        |              |      |      | x    |              |          |       |  |
| --confirm                  | I-understand...   | x      |           | x     |          |        | x            |      | x    |      |              | x        | x     | Windows only                                       |
| --conveyanceDST            |   |        |           |       |          |        |              |      |      |      |              |          | x     |  |
| --csmInfo                  |   |        |           |       |          |        |              | x    |      |      |              |          |       | SAS only   |
| --defectFormat             | shortBlock   0<br>xbfi   1<br>xchs   2<br>longBlock   3<br>bfi   4<br>chs   5                         |        |           |       |          |        |              | x    |      |      |              |          | x     |  |
| --deviceStatistics         |   |        |           |       |          |        |              | x    |      |      |              |          |       | SATA only<br>SATA only<br>SAS only<br>Seagate only |
| --diameterTest             | O   M   I   |        |           |       |          |        | x            |      |      |      |              |          |       |  |
| --diameterTestRange        | LBA count   |        |           |       |          |        | x            |      |      |      |              |          |       |  |
| --disableAPM               |   |        |           |       |          |        |              |      |      |      | x            |          |       |  |
| --disableATASecPW          |   |        |           |       |          |        |              |      |      |      |              | x        |       |  |
| --disableCertification     |   |        |           |       |          | x      |              |      |      |      |              |          |       |  |
| --disableDataLocking       |   |        |           |       |          |        |              |      |      |      |              |          | x     |  |
| --disablePrimaryList       |   |        |           |       |          | x      |              |      |      |      |              |          |       |  |
| --discardGList             |   |        |           |       |          | x      |              |      |      |      |              |          |       |  |
| --disableImmediateResponse |   |        |           |       |          | x      |              |      |      |      |              |          |       |  |
| --displayLBA               | LBA   maxLBA  | x      |           | x     |          | x      |              |      |      |      |              |          | x     | Seagate only                                       |
| --downloadFW               | fwfilename  | x      |           |       | x        |        |              |      | x    | x    |              |          |       |  |

[illegible]

|                              |  |   |   |   |   |   |  |   |  |   |   |   |  |   |   |              |
|------------------------------|--|---|---|---|---|---|--|---|--|---|---|---|--|---|---|--------------|
| --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 |   |   |   |  |   |  |   |   |   |  |   |   | Seagate only |
| --overwriteRange             | LBA count  | x | x |   |   |   |  |   |  |   |   |   |  |   |   | Seagate only |
| --pattern                    | repeat   random   increment   file   |   |   | x | x |   |  |   |  |   |   |   |  |   |   | Seagate only |
| --pciStats                   |  |   |   |   |   |   |  |   |  | x |   |   |  |   |   | NVMe only    |
| --performQuickestErase       |  |   |   | x |   |   |  |   |  |   |   |   |  |   |   | Seagate only |
| --phySpeed                   | 0   1   2   3   4   5  | x | x |   |   |   |  |   |  |   |   |   |  |   |   | Seagate only |
| --pin11                      | on   off   default   | x | x |   |   |   |  |   |  |   |   |   |  |   |   | SAS only     |
| --poll                       |  | x |   | x |   |   |  |   |  | x | x |   |  |   | x |              |
| --powerBalanceFeature        | info   enable   disable  |   |   |   |   |   |  |   |  |   |   | x |  |   |   | SATA 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<br>maxLBA  | x | x |   |   |   |  |   |  |   |   |   |  |   |   | Seagate only |
| --psid                       | DrivePSID  |   |   | x |   |   |  |   |  |   |   |   |  | x |   | Seagate only |
| --puisFeature                | enable   disable   |   | x |   |   |   |  |   |  |   |   |   |  |   |   | SATA only    |
| --randomTest                 |  |   |   |   |   |   |  | x |  |   |   |   |  |   |   | Seagate only |
| --readLookAhead              | info   enable   disable  | x | x |   |   |   |  |   |  |   |   |   |  |   |   |              |
| --readyLED                   | info   on   off   default  | x | x |   |   |   |  |   |  |   |   |   |  |   |   | SAS only     |
| --repopulateElements         |  |   |   |   | x |   |  |   |  |   |   |   |  |   |   | Seagate only |
| --restorePhysicalElements    |  |   |   |   | x |   |  |   |  |   |   |   |  |   |   | Seagate Only |
| --removePhysicalElement      | element #  |   |   | x | x |   |  |   |  |   |   |   |  |   |   | Seagate only |
| --repairAtEnd                |  |   |   |   |   | x |  |   |  |   |   |   |  |   |   | Seagate only |
| --repairOnFly                |  |   |   |   |   | x |  |   |  |   |   |   |  |   |   | Seagate only |
| --requestPowerMeasurement    | seconds to perform measurement   |   |   |   |   |   |  |   |  |   |   | x |  |   |   | Seagate only |
| --restoreMaxLBA              |  | x | x |   |   |   |  |   |  |   |   |   |  |   |   |              |
| --revert                     |  |   |   | x |   |   |  |   |  |   |   |   |  | x |   | Seagate only |
| --revertSP                   |  |   |   | x |   |   |  |   |  |   |   |   |  | x |   | Seagate only |
| --sanitize                   | info<br>blockerase<br>cryptoerase<br>overwrite<br>freezeloack<br>antifreezeloack |   |   | 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    |
| --scsiLPReset                | cumulative   threshold  <br>defCumulative  <br>defThreshold   all                |   | x |   |   |   |  |   |  |   |   |   |  |   |   | SAS only     |
| --scsiLPResetPage            | page#   page-subpage#  |   | x |   |   |   |  |   |  |   |   |   |  |   |   | Seagate only |
| --scsiMPReset                | page#   page-subpage#  |   | x |   |   |   |  |   |  |   |   |   |  |   |   | SAS only     |
| --scsiMPRestore              | page#   page-subpage#  |   | x |   |   |   |  |   |  |   |   |   |  |   |   | Seagate only |

|                                |  |   |   |   |  |   |   |  |  |   |  |   |  |   |   |  |  |   |   |                           |
|--------------------------------|--|---|---|---|--|---|---|--|--|---|--|---|--|---|---|--|--|---|---|---------------------------|
| --scsiMPSave                   | page#   page-subpage#                              |   | x |   |  |   |   |  |  |   |  |   |  |   |   |  |  |   |   | SAS only<br>Seagate only  |
| --sctReadTimer                 | info   value                                       |   | x |   |  |   |   |  |  |   |  |   |  |   |   |  |  |   |   | SATA only<br>Seagate only |
| --sctWriteCache                | info   enable   disable   default                  |   | x |   |  |   |   |  |  |   |  |   |  |   |   |  |  |   |   | SATA only<br>Seagate only |
| --sctWriteTimer                | info   enable   disable   default                  |   | x |   |  |   |   |  |  |   |  |   |  |   |   |  |  |   |   | SATA only<br>Seagate only |
| --sctWriteCacheReordering      | info   value                                       |   | x |   |  |   |   |  |  |   |  |   |  |   |   |  |  |   |   | SATA only<br>Seagate only |
| --seagateClean                 |  |   |   |   |  |   |   |  |  |   |  |   |  |   |   |  |  |   | x | Seagate only              |
| --seconds                      | seconds  | x |   | x |  |   | x |  |  |   |  |   |  |   |   |  |  |   |   |                           |
| --securityInitialize           |  |   |   |   |  | x |   |  |  |   |  |   |  |   |   |  |  |   |   | SAS only                  |
| --setAPMLLevel                 |  |   |   |   |  |   |   |  |  |   |  |   |  | x |   |  |  |   |   | SATA only                 |
| --setMaxLBA                    | newMaxLBA<br>maxLBA                                | x | x |   |  |   |   |  |  |   |  |   |  |   |   |  |  |   |   |                           |
| --setMRIE                      | default   0 - 6                                    |   |   |   |  |   |   |  |  |   |  |   |  |   |   |  |  |   | x | SAS only<br>Seagate only  |
| --setPowerConsumption          | default, highest, intermediate, lowest, watt value |   |   |   |  |   |   |  |  |   |  |   |  |   | x |  |  |   |   | SAS only<br>Seagate only  |
| --setSectorSize                | new sector size                                    |   |   |   |  | x |   |  |  | x |  |   |  |   |   |  |  |   |   | Seagate only              |
| --setSCSIMP                    | mp   file  |   | x |   |  |   |   |  |  |   |  |   |  |   |   |  |  |   |   | SAS only<br>Seagate only  |
| --shortDST                     |  | x |   |   |  |   |   |  |  | x |  |   |  |   |   |  |  |   | x |                           |
| --shortGeneric                 |  |   |   |   |  |   | x |  |  |   |  |   |  |   |   |  |  |   |   |                           |
| --showAPMLLevel                |  |   |   |   |  |   |   |  |  |   |  |   |  |   | x |  |  |   |   | SATA only                 |
| --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 |   | Seagate only              |
| --smartAttributeAutosave       | enable   disable                                   |   |   |   |  |   |   |  |  |   |  |   |  |   |   |  |  |   | x | SATA only<br>Seagate only |
| --smartAttributes              | raw   analyzed                                     | x |   |   |  |   |   |  |  | x |  |   |  |   |   |  |  |   | x | SATA only                 |
| --smartAutoOffline             | enable   disable                                   |   |   |   |  |   |   |  |  |   |  |   |  |   |   |  |  |   | x | SATA only<br>Seagate only |
| --smartCheck                   |  | x |   |   |  |   |   |  |  |   |  |   |  |   |   |  |  |   | x |                           |
| --smartErrorLogFormat          | raw   detailed                                     |   |   |   |  |   |   |  |  |   |  |   |  |   |   |  |  |   | x | SATA only                 |
| --smartFeature                 | enable   disable                                   |   |   |   |  |   |   |  |  |   |  |   |  |   |   |  |  |   | x | SATA only<br>Seagate only |
| --smartInfo                    |  |   |   |   |  |   |   |  |  |   |  |   |  |   |   |  |  |   | x | SATA only                 |
| --spinDown                     |  | x |   |   |  |   |   |  |  |   |  |   |  |   | x |  |  |   |   |                           |
| --sscFeature                   | info   enable   disable   default                  |   | x |   |  |   |   |  |  |   |  |   |  |   |   |  |  |   |   | SATA only<br>Seagate only |

|                        |  |   |   |   |   |   |  |   |   |  |   |  |
|------------------------|--|---|---|---|---|---|--|---|---|--|---|--|
| --standby              | enable   disable   default<br>  timerValueMilliseconds   |   |   |   |   |   |  | x |   |  |   |  |
| --standby_y            | enable   disable   default<br>  timerValueMilliseconds   |   |   |   |   |   |  | x |   |  |   |  |
| --standby_z            | enable   disable   default<br>  timerValueMilliseconds   |   |   |   |   |   |  | x |   |  |   |  |
| --stopOnError          |  |   |   |   |   | x |  |   |   |  |   |  |
| --stopOnListError      |  |   |   |   | x |   |  |   |   |  |   |  |
| --swtchFW              |  |   |   | x |   |   |  |   |   |  |   |  |
| --tcgInfo              |  |   |   |   |   |   |  |   |   |  | x |  |
| --telemetryDataArea    | 1   2   3  |   |   |   |   |   |  | x |   |  |   |  |
| --tempStats            |  |   |   |   |   |   |  | x |   |  |   |  |
| --transitionPower      | active   idle   idleUnload  <br>standby   idle_a   idle_b  <br>idle_c   standby_y  <br>standby_z   sleep |   |   |   |   |   |  |   | x |  |   |  |
| --transitionPowerState | new power state  |   |   |   |   |   |  | x | x |  |   |  |
| --trim                 | starting LBA   maxLBA  | x |   | x |   |   |  |   |   |  |   |  |
| --trimRange            | LBA count  | x |   | x |   |   |  |   |   |  |   |  |
| --deallocate           | starting LBA   maxLBA  | x |   | x |   |   |  |   |   |  |   |  |
| --deallocateRange      | LBA count  | x |   | x |   |   |  |   |   |  |   |  |
| --twoMinuteGeneric     |  |   |   |   |   | x |  |   |   |  |   |  |
| --udsPort              | lock   unlock  |   |   |   |   |   |  |   |   |  | x |  |
| --unlockATASec         |  |   |   |   |   |   |  |   |   |  | x |  |
| --unmap                | starting LBA   maxLBA  | x |   | x |   |   |  |   |   |  |   |  |
| --unmapRange           | LBA count  | x |   | x |   |   |  |   |   |  |   |  |
| --userGenericRange     | LBA count  |   |   |   |   | x |  |   |   |  |   |  |
| --userGenericStart     | starting LBA   maxLBA  |   |   |   |   | x |  |   |   |  |   |  |
| --volatile             |  |   | x |   |   |   |  |   |   |  |   |  |
| --writeCache           | info   enable   disable  | x | x |   |   |   |  |   |   |  |   |  |
| --writeSame            | starting LBA   maxLBA  |   |   | x |   |   |  |   |   |  |   |  |
| --writeSameRange       | LBA count  |   |   | x |   |   |  |   |   |  |   |  |

| Features Common to all tools | Options      |
|------------------------------|--------------|
| --childModelMatch            |              |
| --childNewFW                 |              |
| --childOnlyFW                |              |
| --csmIgnorePort              |              |
| --csmiUsePort                |              |
| --csmiVerbose                |              |
| -d, --device                 | deviceHandle |
| -i, --deviceInfo             |              |
| --echoCommandLine            |              |
| --enableLegacyUSBPassthrough |              |
| --forceATA                   |              |
| --forceATADMA                |              |
| --forceATAPIO                |              |

|   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| x | x | x | x | x | x | x | x |   |   | x | x | x |
| x | x | x | x | x | x | x | x |   |   | x | x | x |
| x | x | x | x | x | x | x | x |   |   | x | x | x |
| x | x | x | x | x | x | x | x |   |   | x | x | x |
| x | x | x | x | x | x | x | x |   |   | x | x | x |
| x | x | x | x | x | x | x | x |   |   | x | x | x |
| x | x | x | x | x | x | x | x | x | x | x | x | x |
| x | x | x | x | x | x | x | x | x | x | x | x | x |
| x | x | x | x | x | x | x | x |   |   | x | x | x |
| x | x | x | x | x | x | x | x |   |   | x | x | x |
| x | x | x | x | x | x | x | x |   |   | x | x | x |
| x | x | x | x | x | x | x | x |   |   | x | x | x |
| x | x | x | x | x | x | x | x |   |   | x | x | x |
| x | x | x | x | x | x | x | x |   |   | x | x | x |
| x | x | x | x | x | x | x | x |   |   | x | x | x |

USB Only

USB Only

USB Only

Windows only

Windows only

Windows only

  

SATA only

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 | SATA only                       |
| --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 |                                 |
| --sat12byte            |   | x | x | x | x | x | x | x |   |   | x | x | x |                                 |
| --SATInfo              |   | x | x | x | x | x | x | x |   |   | x | x | x |                                 |
| -s, --scan, -S, --Scan |   | x | x | x | x | x | x | x | x | x | x | x | x |                                 |
| -F, --scanFlags        | sd, sgtosd, ata, usb, scsi,<br>nvme, interfaceATA,<br>interfaceUSB,<br>interfaceSCSI,<br>interfaceNVME,<br>ignoreCSMI (Win only),<br>allowDuplicates (Win only) | x | x | x | x | x | x |   |   | x | x | x | x | Some options<br>are OS specific |
| --testUnitReady        |   | x | x | x | x | x | x |   |   | x | x | x | x |                                 |
| --usbChildInfo         |   | 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 |                                 |
| -V, --version          |   | x | x | x | x | x | x | x | x | x | x | x | x |                                 |