

# Execution of Secure Erase / Sanitize

[GreenPepper PRO] Tutorials

- 1 When "GreenPepper PRO" "Bootup Erase Program" starts, menu shown on the right is displayed. The Secure Erase menu will be displayed only if at least one of the connected disk drives is capable of Secure Erase/Sanitize processing. If "secure erase/sanitize" menu exists, you can select and execute Secure Erase/Sanitize.
- 2 If the "secure erase/sanitize" menu doesn't appear, it may still be possible.

```

GreenPepper PRO: Alt+F1-4-Other Screen Alt+F5-00111ty
MENU [1] 2 3 4

# show current disk status
--- erase disks ---
# erase disks (1-time [00])
# erase disks (2-times[rand-00])
# erase disks (3-times[rand-FF-00])
# erase disks (4-times[AA-55-rand-00])
--- secure erase/sanitize ---
# secure erase/sanitize (1-time [sec])
# secure erase/sanitize (2-times[sec-00])
# secure erase/sanitize (3-times[sec-rand-00])

# verify/read check

# version infomation

# exit
    
```

```

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MENU [1] 2 3 4

# show current disk status
--- erase disks ---
# erase disks (1-time [00])
# erase disks (2-times[rand-00])
# erase disks (3-times[rand-FF-00])
# erase disks (4-times[AA-55-rand-00])

# verify/read check

# version infomation

# exit

[ENTER] to show detail disk infomation.
Disks ---(model/size/rev/serial)---
[1] JATA ST3160813AS(500MB) SD2B/9SY08UPE

Machine Info -----
PC : NEC PC-MK37LL2KC2SU NEC Product 79000361A
CPU : Intel(R) Core(TM) i3-6100 CPU @ 3.70GHz
MEMORY: 3943528 kB

Disk Interface -----
[Show]
    
```

```

Detail Disk Info
[HDD] CurrentSize[1000000]sector
PowerOnHours [10121]h PowerCycl [2183]times
Reallocated Sectors [2] Physical Sector [512] W/C[1]
[HPA][DC0](x512byte) -----
HPAenabled/DC0Unsupported
HPA:All Sectors[312581808]
[Secure Erase] -----
Support [*] erase time(30)min
Support (Enhanced) [*] erase time(30)min
Status : password[ ] locked[ ] frozen[*]
[Sanitize] -----
Support [-] frozen[-] process[-] prevOK[-]
Command : block[-] overwrite[-] crypto[-]
[OPAL] (Self-Encryption) -----
Support [-]
    
```

## Frozen state

In fact, most recent ATA(SATA) disk drives support Secure Erase. Select "show current disk status"[enter], on the "current disk status" page, select disk drive and press [enter]. "Detail Disk info" is shown.

"Support[\*]" shows it is supported. In many cases, you will see "Frozen[\*]".

This indicates that the drive is in a frozen state, preventing the Secure Erase process from working.

The disk drive is in an Unfreeze state just after its power is turned on. But immediately after the PC is turned on, the PC's basic firmware (BIOS, UEFI) sends a command to the disk drive to become "Frozen".

This is, of course, for security reasons, but it is the main reason that makes the Secure Erase process difficult.

