FUJITSU

Datasheet
EraseDisk –
Data Protection Solution

Fujitsu introduces a security solution to help enterprises tackle the problem of leaving sensitive data on hard disk drives and solid state drives when computers reach their end of life. The EraseDisk functionality is optionally built into selected Fujitsu Client Computing Devices, making it simple and fast for system administrators to completely wipe all data on a hard disk drive and solid state drives when they decommission a device. EraseDisk is built into the firmware of selected FUJITSU Tablet STYLISTIC, FUJITSU Notebook LIFEBOOK, FUJITSU Desktop ESPRIMO and FUJITSU Workstation CELSIUS which streamlines compliance with data security laws and regulations. EraseDisk irretrievably erases the data on all partitions on all hard drives and selected models of solid state drives of a device. There is no need to rely on third party services any more. Even with a corrupted operating system, EraseDisk wipes all data, making it impossible for data recovery tools to restore deleted bits and bytes.

Benefits compared to special software solutions:
- No additional costs
- No separate installation required, as already implemented within the UEFI firmware of the device
- Part of the BIOS, cannot be lost during the lifetime of the device
- Erases solid state drives via the ATA security erase command

Overwriting and EraseDisk
Overwriting normally requires special software tools that may come free of charge or in commercial editions. The no-cost versions are normally tuned to home user needs, not business scenarios; besides, they often don't work thoroughly enough. Commercial tools often cost four-digit amounts depending on the number of licenses purchased; updates and support are usually limited to 12 months. Small and medium businesses in particular will find this expensive and unsuitable for their needs. In addition, there are a large number of varied programs, so the 'right' tool can be hard to find.

The advantages of the unique Fujitsu EraseDisk technology
EraseDisk works just like any of the aforementioned special programs, i.e. it overwrites – and therefore irretrievably deletes – all sensitive data on a hard disk before a system is retired, repurposed or sold. Users may settle on one of four different deletion options, each of which complies with a different standard or environment. Based on how often old data is overwritten, a distinction is drawn between:

- Zero Pattern (aka "zeroing out") – all data is overwritten with zeros in one single pass. This option is typically sufficient for hard disks that don't contain user data or other confidential/personal information
- VSITR (short for: "Verschlusssachen-IT-Richtlinien") – this standard uses varying random bit patterns and requires 7 rounds
- U.S. DoD 5220.22-M (ECE) – this standard comprises two simpler standards, DoD 5220.22-M (C) and DoD 5220.22-M (E), alternating between them in a total of 7 passes
- Peter Gutmann's Algorithm – first introduced in 1996, this algorithm uses a predefined sequence of 35 passes (4 rounds of random patterns, 27 rounds of zeros and ones in fixed orders, and again 4 rounds of random patterns) to clean up each and every sector of a drive

Deleting Solid State Drives (SSD)
Due to technical reasons it is not possible to overwrite the SSD with defined patterns and thus any of the above methods. Data from SSDs therefore must be eliminated using integrated ATA commands such as "Secure Erase" or "Enhanced Secure Erase," which are based on sanitization mechanisms provided with the SSD firmware.

In each case, the erase process is performed as an extra task after initializing and rebooting, so it can run separately until finished. The results are recorded in an audit-proof protocol and may be copied to an external USB drive to confirm the successful deletion.

Main Features of EraseDisk
- Wipes hard disk drives and solid state drives
- Records results in an audit-proof protocol
- Depending on the selected algorithm the duration of the HDD deletion ranges from ~10 sec. to ~10 min. per GByte

Product version	Order Number
EraseDisk – License for FUJITSU Desktop ESPRIMO & FUJITSU Workstation CELSIUS	S26361-F2542-E435
EraseDisk – License for FUJITSU Tablet STYLISTIC & FUJITSU Notebook LIFEBOOK	S26361-F993-E100

EraseDisk – Technical Data

Supported mass storage devices
- All SATA, SSHD and SSD drives delivered with Fujitsu Client Computing Devices can be safely deleted

Supported Fujitsu Client Computing Devices
- FUJITSU Desktop ESPRIMO
- FUJITSU Workstation CELSIUS
- Selected models of FUJITSU Tablet STYLISTIC and FUJITSU Notebook LIFEBOOK
- Supported devices can be found on our Web pages (Feature Finder)

More information

Fujitsu OPTIMIZATION Services

In addition to Fujitsu EraseDisk, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as a Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

Computing products

www.fujitsu.com/global/services/computing/
- PRIMERGY: Industrial standard server
- SPARC Enterprise: UNIX server
- PRIMEQUEST: Mission-critical IA server
- ETERNUS: Storage system
- BS2000 mainframes

Software

www.fujitsu.com/software/
- Interstage: Application infrastructure software
- Systemwalker: System management software

More information

Learn more about Fujitsu EraseDisk, please contact your Fujitsu sales representative, Fujitsu business partner, or visit our website: www.fujitsu.com/fts

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at: www.fujitsu.com/global/about/environment/

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