

# DATA DECOMMISSIONING THROUGH ITRENEW STORAGE ARRAYS OR AS A SERVICE

## *Abstract*

Data security is one of the high priority challenges for small to F500 companies. With the constant generation of data content and the turnover of data storage systems, companies are seeking innovative solutions to help mitigate their risk, reduce legal liability, and protect their own data and that of their users



## **TERAWIPE:**

TERAWIPE uses ITRENEW's patented HDD eraser technology that guarantees full erasure of all existing data on a drive. TERAWIPE employs a physical wipe method. While it has the ability to wipe logical drives, the default mode increases security by physically overwriting each individual sector on the drive. TERAWIPE achieves this by removing the raid configurations and directly communicating with the HDD. Regardless of the HDD configuration, despite customized file system formats, partitions, firmware, or reallocated blocks; TERAWIPE fully eradicates all data from the HDD. Direct 1:1 connectivity to each individual drive is the feature that separates TERAWIPE from competing free-ware or fee data erasure applications on the market.

Erasing a "bad" HDD is the most widely used application of the TERAWIPE software. TERAWIPE is able to handle the complexities of erasing a HDD that has been tagged as "bad". There are many reasons why a HDD can be "bad". TERAWIPE was built to outperform any other erasure application, to guarantee full and complete erasure of each HDD, and produce the highest HDD recovery yield.

In addition, TERAWIPE can achieve all of the above mentioned features in various environments, across different platforms. TERAWIPE is fully compatible on Unix/Linux and Windows machines. It can be boot on any machine using either a USB or a CD. It has direct-connect capabilities into a storage-array. It can erase a full data center by booting through an existing network by way of PXE and/or NetBoot protocols. TERAWIPE can also be deployed remotely from anywhere in the world to anywhere in the world, all without compromising reliability, performance, and most importantly, security.

## **Simple Erase:**

Simple Erase methodology is anything but secure. Different software applications have their own algorithms that erase data off of a drive. However, most Simple Erase applications only wipe 10-15% of the data from a hard drive. Simple Erase methods target only certain sector areas of a HDD. Depending on the software, the first million sectors of a drive are wiped, or the last million sectors, or a random combination of sectors. Simple Erase aims to disconnect data strings on a hard drive so it is unrecognizable when the HDD is booted. However, data still remains on the HDD, and depending on the Simple Erase algorithm used, the remaining data can be extracted and can reconstructed from the "wiped" data.

## **Reformatting:**

Reformatting a HDD simply erases the file directory and breaks the links between each storage sectors, but in most cases, data still remains on the drive. Low-Level formatting is the process of outlining the positions of the tracks and sectors on the HDD, and writing the control structures that define where the tracks and sectors are. This is often called a "true" formatting operation, because it creates the physical format that defines where the data is stored on the disk. Reformatting a HDD for the purpose of data erasure will always leave the user vulnerable.

**Features Include:**

- 100% HDD Erasure Guaranteed and Insured
- Embedded S.M.A.R.T Testing
- Custom Auditable Reporting
- Certificate of Data Destruction
- Easy-to-use Graphical User Interface
- Cross-Platform Compatible
- SAS, SATA, PATA, FC, SCSI, SSD Compatible
- Multi-Pass Options (1,2,or 7 Pass)
- Multi-Erase Options- Random Patterns or Zero-Out
- Erasure Verification Option
- Remote Data Decommissioning Option available
- PCI, HIPPA, Sarbanes-Oxley, DOD Compliant
- NAID Certified
- Meets and Exceeds Privacy and Security Standards and Policies

**Summary and Conclusions**

TERAWIPE, ITRENEW's patented data eradication software, can be deployed to erase any hard drive technology in any computer, server, storage system and networking equipment. The easy-to-use interface brings the most secure data erasure technology to your fingertips.

ITRENEW we have invested a great deal of capital and practices to effectively and securely deal with data security issues that customers are facing. ITRENEW has developed a state-of-the-art software solution that guarantees full data erasure from any system. Our software and hardware solutions are currently deployed in some of the largest data centers worldwide. Our software is enterprise grade and proven, with no equal match in the market when it comes to quality, speed, performance, cost and ease of use.